

FINANCIAL SUSTAINABILITY TO GROW A SUSTAINABLE FUTURE



2021
LAPORAN KEBERLANJUTAN
SUSTAINABILITY REPORT



FINANCIAL SUSTAINABILITY TO GROW A SUSTAINABLE FUTURE

Sebagai perusahaan energi terintegrasi, Perseroan mengemban tanggung jawab dan komitmen yang tinggi untuk memberikan kontribusi terbaik bagi seluruh pemangku kepentingan, terutama masyarakat dan negara. Dengan menjunjung tinggi nilai dan etika kerja yang penuh dengan integritas, Perseroan menanamkan moto baru yakni "Financial Sustainability to Grow a Sustainable Future".

Di tengah situasi yang penuh ketidakpastian sepanjang 2021, Perseroan senantiasa berkomitmen untuk meneruskan fokus utama pada ESG dan memberikan dampak yang positif dan *beneficial* bagi seluruh pihak, guna mempertahankan kelangsungan usaha yang berkelanjutan.

Perseroan juga menggarisbawahi bahwa keberlanjutan tidaklah mungkin tercapai tanpa ditopang oleh keberlanjutan finansial yang mumpuni. Perseroan meyakini bahwa dengan beradaptasi pada perubahan usaha dan mengadopsi pola bisnis berkelanjutan yang tepat, Perseroan mampu mendorong pertumbuhannya secara konsisten dan membawa dampak yang baik bagi pertumbuhan Indonesia.

As an integrated energy company, the Company has an eminent responsibility and commitment to provide the best contribution for all stakeholders, especially the community and the state. By upholding values and a work ethic that is full of integrity, the Company has instilled a new motto, namely "Financial Sustainability to Grow a Sustainable Future".

In the midst of uncertainties throughout 2021, the Company remains committed to continuing its main focus on ESG and providing a positive and beneficial impact for all parties, in order to maintain a sustainable business continuity.

The Company also underlines that sustainability is impossible to achieve without being supported by strong financial sustainability. The Company believes that by adapting to business changes and adopting the correct sustainable business strategy, the Company is able to drive its growth consistently and bring a great impact to Indonesia's growth.

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PERNYATAAN DIREKSI

Message from the Board of Directors



Agus Salim Pangestu

Direktur Utama
President Director

PEMANGKU KEPENTINGAN YANG TERHORMAT,

Dengan penuh rasa syukur kami melaporkan sekumpulan pencapaian luar biasa di tengah tantangan yang dihadapi pada tahun 2021. Mutasi baru virus COVID-19 yang lebih mudah menular (Delta dan Omicron) melanda tahun 2021, diikuti dengan diterapkannya kembali pembatasan kegiatan di daerah-daerah, dan didukung oleh kebijakan ekonomi yang kuat. Gangguan pasokan dan permintaan global berdampak pada pasar yang sangat ketat dan naiknya harga bahan baku dan komoditi. Setelah hampir satu dekade, inflasi mencapai rekor tertinggi. Hal ini menyebabkan kekhawatiran tentang kebijakan moneter dan suku bunga global ke depannya.

Di tengah semua tantangan ini, Perseroan tetap fokus menjaga keberlangsungan usaha seraya mengupayakan keunggulan operasional dan ketahanan finansial. Kami juga melanjutkan rencana ekspansi dengan bergabungnya mitra strategis, Thai Oil Public Company Limited (Thaioil), sebagai investor di anak perusahaan kami Chandra

DEAR STAKEHOLDERS,

We are pleased to report an outstanding set of results despite another challenging year in 2021. The year was shaped by new and more infectious COVID-19 mutations (Delta and Omicron), recurring regional lockdown periods mitigated by strong economic policy support. Raw materials and commodities were impacted by global supply and demand disruptions, leading to exceptionally tight markets and significantly elevated prices. After almost a decade inflation reached new heights which in turn has raised concerns about monetary policy environment and global interest rates going forward.

Amid these challenges the Company remained focused on business continuity while delivering operational excellence and financial resilience. We also continued to advance our growth plans by welcoming another capable strategic partner, Thai Oil Public Company Limited (Thaioil), as

Asri melalui salah satu penawaran umum terbatas terbesar yang pernah dilakukan di Bursa Efek Indonesia.

Walaupun pertumbuhan ekonomi global pulih menjadi 5,9% pada tahun 2021 dari -3,1% pada tahun 2020, masih terdapat ketidakpastian yang signifikan akibat pandemi yang berdampak buruk pada perekonomian. Kami tetap menyadari tantangan ke depan, terutama gelombang pandemi lain yang mungkin dapat menutup berbagai bagian dunia yang saling terhubung.

KINERJA USAHA

Bisnis petrokimia kami terus memberikan hasil luar biasa terlepas dari dampak di berbagai aspek akibat pandemi yang terus berlangsung. Ketika tahun 2020 harga minyak mentah sempat mengalami penurunan, pada 2021 kita menyaksikan kenaikan kuat dengan pulihnya permintaan global dan kenaikan harga dari US\$54 pada awal tahun hingga US\$74 pada akhir tahun di tengah ketegangan antara Ukraina dan Rusia. Naiknya harga produk petrokimia karena pulihnya permintaan membantu Chandra Asri meraih pertumbuhan lini teratas yang kuat sebesar 43% hingga US\$2.580 juta tahun ini. Sepanjang tahun ini kami juga mencapai banyak tonggak penting dalam pengembangan kompleks petrokimia kedua (CAP2), termasuk pemilihan Thaoil sebagai investor strategis melalui proses terarah dan komprehensif, dan melaksanakan penawaran umum terbatas senilai US\$1,1 miliar, salah satu yang terbesar di Bursa Efek Indonesia (BEI). Ini menunjukkan kemampuan kami untuk sekali lagi menarik mitra asing kompeten demi meraih rencana pertumbuhan transformatif kami.

Dalam lini usaha panas bumi, Star Energy Geothermal secara konsisten memberi keseimbangan dan stabilitas pada laporan keuangan konsolidasi kami. Wayang Windu beroperasi dengan kapasitas bersih rata-rata 95% sementara Salak dan Darajat di 95% dan 93% dengan gangguan produksi yang lebih sedikit pada tahun ini.

a shareholder of our subsidiary Chandra Asri through one of the largest ever rights issues on the Indonesian Stock Exchange.

While global growth rebounded to 5.9% in 2021 from -3.1% in 2020, there still remains significant uncertainty from the pandemic which will continue to have an adverse effect on the economy. We remain cognizant of the challenges ahead especially as different waves of the pandemic possibly drive shutdowns of different parts of an inter-connected world.

BUSINESS PERFORMANCE

Our petrochemical business has continued to deliver outstanding results despite the multi-pronged impact of the still ongoing pandemic. While 2020 saw crude oil briefly dip into negative territory, in 2021 we witnessed a strong reversal with global demand recovering and crude climbing from US\$54 at the beginning of the year to finish at \$74 at the end of the year amid tensions between Ukraine and Russia. Petrochemical product prices rose on demand recovery which helped Chandra Asri deliver strong topline growth of 43% to reach US\$2,580 million for the year. During the year we also achieved many key milestones for the development of our second petrochemical complex (CAP2), including selection of Thaoil as a strategic investor after a robust and comprehensive process, and executing a US\$1.1 billion Rights Issue on the Indonesian Stock Exchange (IDX), one of the largest ever on IDX. With this we once again demonstrated our ability to attract capable foreign partners to help deliver on our transformational growth plans.

Our geothermal business, Star Energy Geothermal has continued to provide balance and stability to our consolidated numbers. Wayang Windu operated at 95% average net capacity factor while Salak and Darajat operated at 95% and 93% respectively with less production disruptions during the year.

Indo Raya Tenaga, perusahaan gabungan kami dengan Indonesia Power, yang sedang mengembangkan Jawa 9 & 10, pembangkit listrik tenaga batubara *ultra-supercritical* berkapasitas 2x1000MW masih dalam pembangunan dengan total kemajuan proyek sebesar 54,62% dan total penarikan utang sebesar 14% per Desember 2021. Proyek ini mengalami pemutakhiran lingkungan penting pada tahun ini dengan teknologi SCR (*Selective Catalytic Reduction*) yang diakui oleh Kementerian Lingkungan Hidup. Proyek ini juga mendapat penghargaan internasional sebagai pembangkit listrik pertama dan satu-satunya di Indonesia yang menggunakan sistem pengendalian emisi terlengkap.

Anak perusahaan properti kami, Griya Idola menyerahkan kompleks kantor kedua kami Wisma Barito Pacific II dengan 2 juta Jam Kerja Aman Tanpa *Lost Time Accident*. Menara 24 lantai ini dirancang dengan inovasi konsep hijau yang mendapat beberapa pengakuan dari pemerintah dan lembaga swasta terkemuka dan telah ditunjuk sebagai *role model* untuk gedung perkantoran dan properti ramah lingkungan.

BANTUAN COVID-19

Bersama pemangku kepentingan lainnya, kami tetap berkomitmen untuk mendukung masyarakat Indonesia melawan pandemi. Kami terus menyalurkan bantuan medis dan dukungan vaksin, peralatan kesehatan, konsentrator oksigen, dan sembako kepada puluhan ribu penerima manfaat di Banten, Jawa Barat, dan Jawa Tengah. Kami berdiri bersama Pemerintah Indonesia untuk mengatasi dampak pandemi.

TATA KELOLA PERUSAHAAN

Manajemen terus mengevaluasi seluruh kebijakan mengenai tata kelola perusahaan yang baik mulai dari sistem pengendalian hingga manajemen risiko dalam operasional Perseroan. Tahun ini kami berpartisipasi dalam konferensi investor virtual berkala untuk investor ekuitas dan pendapatan tetap. Selain itu, mengingat semakin pentingnya

Indo Raya Tenaga, our joint venture company with Indonesia Power, which is developing Java 9 & 10, a 2x1000MW ultra-supercritical coal fired power plant remains under construction with total project progress at 54.62% and total debt drawdown of 14% as of December 2021. The project received a key environmental upgrade during the year with SCR technology (*Selective Catalytic Reduction*) being recognized by the Ministry of Environment. The project also received international accolades for being the first and only power plant in Indonesia to use the most complete emission control system.

Our property subsidiary Griya Idola delivered our second office complex Wisma Barito Pacific II during the year with 2 million Safe Manhours Without Lost Time Accident. The 24-story tower was designed with an innovative green concept which received several recognitions from the government and notable private institutions and has been appointed as an office building role model and an environmentally friendly property.

COVID-19 RELIEF

Together with other stakeholders, we remain committed to support the Indonesian people fight the severity of the pandemic. We continue to roll out medical aid and vaccine support, health equipment, oxygen concentrators, and staple food to tens of thousands beneficiaries in Banten, West Java, and Central Java. We stand together with the Indonesian Government to tackle impact of the pandemic.

CORPORATE GOVERNANCE

Management continues to evaluate all policies concerning good corporate governance from control systems to risk management in the Company's operations. During the year we participated in periodic virtual investor conferences for both equity and fixed income investors. Additionally, given the rising importance

basis investor ritel, kami juga mengadakan dua seminar pendidikan investor yang secara khusus ditujukan untuk investor ritel, dan seminar ini rencananya akan dilanjutkan di tahun-tahun mendatang. Kami tetap memprioritaskan komunikasi dan menyediakan informasi basis investor kami dengan manajemen senior yang berpartisipasi dalam semua acara ini.

KEBERLANJUTAN

Di Barito Group, keberlanjutan adalah landasan dari strategi Perseroan dan visi jangka panjang kami. Pertemuan puncak *Conference of Parties* (COP) 26 yang sangat dinanti telah diadakan pada tahun 2021, yang menghasilkan konsensus kurang memuaskan tentang target dekarbonisasi dan rencana ke depan. Masih ada tantangan signifikan terutama dalam konteks negara berkembang, namun kami tetap berkeyakinan akan masa depan yang lebih hijau. Kami terus mengukur dan mengurangi emisi selain mengupayakan target yang dapat dicapai dan membantu mengubah perilaku, baik perusahaan dan individu. Walaupun bisnis petrokimia Chandra Asri tidak akan pernah mencapai karbon netral, kami terus melakukan praktik paling ramah lingkungan dalam operasi sehari-hari. Upaya Chandra Asri ini mendapat "Green Industry Main Award in CSR 2021" dari IDX Channel. Penghargaan tersebut diberikan sebagai pengakuan atas kontribusi Perseroan terhadap isu sosial dan lingkungan, terutama mengenai limbah, kesehatan, dan pelestarian alam. Chandra Asri juga dianugerahi peringkat PROPER Hijau (Program Penilaian Peringkat Kinerja Perusahaan dalam Pengelolaan Lingkungan), untuk kedua pabrik kami di Pulo Ampel dan Ciwandan.

Di Star Energy Geothermal, upaya keberlanjutan kami diakui secara luas melalui obligasi hijau pada ketiga aset kami, namun kami terus berusaha melebihinya. Star Energy Geothermal saat ini adalah produsen tenaga panas bumi terbesar ketiga di dunia berdasarkan kapasitas dan kami

of the retail investor base we also conducted two investor education seminars specifically geared towards the retail investor, we plan to continue this outreach in the years ahead. Communicating with and updating our investor base remains a priority with senior management participating in all these events.

SUSTAINABILITY

At Barito Group sustainability is the cornerstone of our corporate strategy and long-term vision. The year saw the much awaited Conference of Parties (COP) 26 summit which resulted in a rather underwhelming consensus on decarbonization targets and the path forward. There remain significant challenges ahead especially in the context of a developing country however we are steadfast our belief in a greener future. We continue to measure and reduce our emissions in addition to working on targets that are achievable and which help change behavior – corporate and individual. While Chandra Asri, our petrochemical business, will never quite be carbon neutral we continue to introduce the greenest practice into daily operations. Chandra Asri's efforts were recognized by IDX Channel with the award of "2021 Green Industry Main Award in CSR". The award was given in recognition of the Company's contributions to social and environmental issues, especially regarding waste, health, and nature conservation. Chandra Asri was also awarded the Green PROPER rating (Performance Rating Assessment Program in Environmental Management), for both of our plants in Pulo Ampel and Ciwandan.

At Star Energy Geothermal, our green credentials are widely recognized through the green bonds on all three of our assets however we are striving to achieve even more. Star Energy Geothermal is currently the third largest geothermal power producer in the world by capacity and we continue

terus menjajaki cara memonetisasi kredit karbon kami untuk berinvestasi lebih besar ke dalam bisnis kami. Terdapat rencana pajak karbon untuk Indonesia seperti yang telah diperkenalkan beberapa ekonomi regional. Kami menyambut baik perkembangan ini dan akan mengambil langkah lebih lanjut setelah ada kejelasan tentang peraturan tersebut. Upaya ini akan turut membuat aset ramah lingkungan lebih menarik secara finansial dan menanamkan lebih banyak modal ke dalamnya.

Fungsi tanggung jawab sosial grup kami dijalankan melalui Yayasan Bakti Barito yang mendanai berbagai program sosial dan lingkungan di wilayah operasi dan juga menerbitkan laporannya sendiri. Upaya kami untuk meningkatkan kinerja Lingkungan, Sosial, dan Tata Kelola (LST) membuahkan hasil kenaikan peringkat baik MSCI (dari BB ke BBB) dan Sustainalytics (dari Risiko Tinggi ke Risiko Menengah) pada tahun ini. Manajemen tetap fokus pada upaya menuju keberlanjutan yang lebih besar dengan terus memasukkan aspek-aspek LST ke dalam strategi jangka panjang dan operasional sehari-hari kami.

KESEHATAN DAN KESELAMATAN

Di Barito, kami menyadari bahwa pilar keberlanjutan kami yang utama adalah karyawan dan kemampuan mereka untuk mengoperasikan fasilitas di bawah protokol ketat yang sesuai dengan skala dan dampak pandemi. Gugus Tugas COVID-19 kami yang terdiri dari perwakilan manajemen senior dan tim teknis, ditugaskan untuk memantau situasi operasional sehari-hari di pabrik dan kantor, memastikan penerapan protokol kesehatan di semua area, memitigasi penyebaran virus, dan menerapkan prosedur ketat dengan melakukan *contact tracing*, pengetesan, dan menyediakan bantuan dokter kepada staf dan karyawan jika terjadi kasus positif COVID-19. Perseroan telah membangun kapabilitas, sistem, dan proses untuk *Work from Home* (WFH) dan *Work from Office* (WFO), didukung oleh infrastruktur teknologi informasi yang kuat. Untuk karyawan

to explore methods to monetize our carbon credits in order to invest even more into the business. There is talk of a possible carbon tax for Indonesia like some of the regional economies have already introduced. We welcome these developments and will act further once there is greater clarity on the regulations. Such efforts will only help make green assets more attractive financially and plow more capital into them.

Our group corporate social responsibility function is run through the Bakti Barito Foundation which funds numerous social and environmental programs in the areas of our operations and also publishes its own annual report. Our efforts at improving our Environmental, Social, and Governance (ESG) footprint was rewarded as we received a rating upgrade from both MSCI (from BB to BBB) and Sustainalytics (from High Risk to Medium Risk) during the year. Management remains focused on this journey towards greater sustainability as we incessantly weave ESG considerations into our long-term strategy and daily operations.

HEALTH AND SAFETY

At Barito we recognize a significant pillar of sustainability are our employees and their ability to operate our facilities under strenuous protocols befitting the scale and impact of the pandemic. Our COVID-19 Task Force, consisting of representatives from senior management and technical teams, has been tasked to monitor daily operational situation at our plants and office, to enforce the implementation of health protocols in all areas, to mitigate spread of the virus, and to implement strict procedures by conducting contact tracing, testing, and rendering doctor's assistance to staff and employees in the event of positive COVID-19 cases. The Company successfully established Work from Home (WFH) and Work from Office (WFO) capabilities, systems and processes, enabled by robust information technology infrastructure. In the case of operational employees who had to

operasional yang perlu bekerja di lokasi, Perseroan telah menaikkan insentif harian dan menambah pembagian jam kerja di pabrik untuk menghindari penyebaran virus di fasilitas. Secara keseluruhan, dengan upaya bersama dari semua karyawan dan staf, kami dapat mempertahankan operasi pabrik sepanjang tahun 2021 tanpa *Lost Time Accident*, sehingga mempertahankan catatan kesehatan dan keselamatan yang baik melalui tahun yang penuh tantangan ini.

APRESIASI

Atas nama Direksi dan manajemen, saya mengucapkan terima kasih kepada seluruh pemegang saham dan Dewan Komisaris atas kepercayaan yang diberikan kepada kami untuk mengelola Perseroan. Kami juga ingin menyampaikan apresiasi kepada pemangku kepentingan lainnya, terutama karyawan yang telah membantu kami mencapai hasil yang baik meskipun dalam kondisi yang sangat berat. Kami berusaha untuk menjunjung tinggi kepercayaan ini dan terus bekerja secara bertanggung jawab menuju tujuan jangka panjang Perseroan demi memberikan dampak lebih dari sekadar keuntungan finansial.

work on site, the Company has increased daily incentives and added shift work hours at the plant to avoid the spread of the virus in facilities. Overall, with the collective effort of all employees and staff, we are pleased to have been able to maintain plant operations throughout 2021 with zero Lost Time Accident, thereby maintaining our robust health and safety record through this challenging year.

APPRECIATION

On behalf of the Board of Directors and its management, I would like to thank all shareholders and the Board of Commissioners for the unwavering trust bestowed upon us to manage the Company. We would also like to express our appreciation to other stakeholders especially our employees who helped us deliver a strong set of results despite extremely challenging conditions. We endeavor to uphold this trust and continue to work responsibly towards the Company's long term goals of delivering an impact beyond just financial returns.

Atas Nama Direksi,

On Behalf of the Board of Directors,



AGUS SALIM PANGESTU

Direktur Utama

President Director

IKHTISAR KEBERLANJUTAN

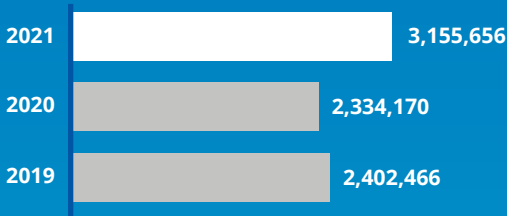
Sustainability Highlights

ASPEK EKONOMI

Economic Aspect

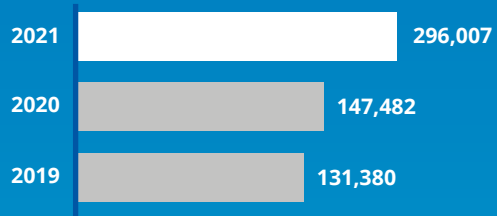
PENDAPATAN BERSIH NET REVENUE

(ribu | thousand US\$)



LABA BERSIH NET PROFIT

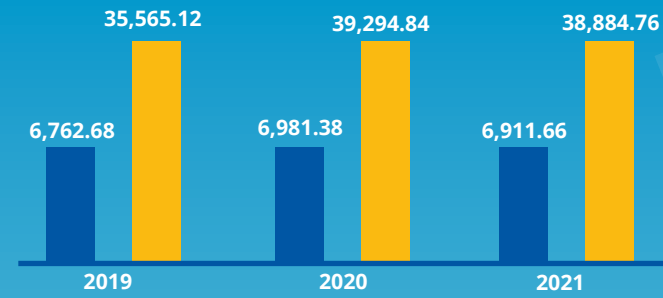
(ribu | thousand US\$)



PRODUK RAMAH LINGKUNGAN DARI ANAK PERUSAHAAN

ENVIRONMENTALLY FRIENDLY PRODUCTS OF SUBSIDIARIES

ENERGI TERBARUKAN RENEWABLE ENERGY



- Produksi Listrik (GWh)
Electricity Production
- Produksi Uap (Ribuan ton)
Steam Production

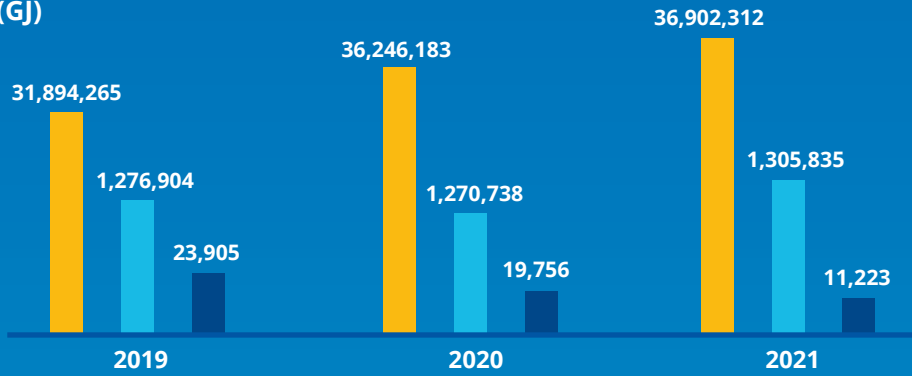


ASPEK LINGKUNGAN

Environmental Aspect

PENGGUNAAN ENERGY (GJ) ENERGY USAGE

- Petrokimia
Petrochemical
- Energi
Energy
- Properti dan Hotel
Property and Hotel



461,599 GJ

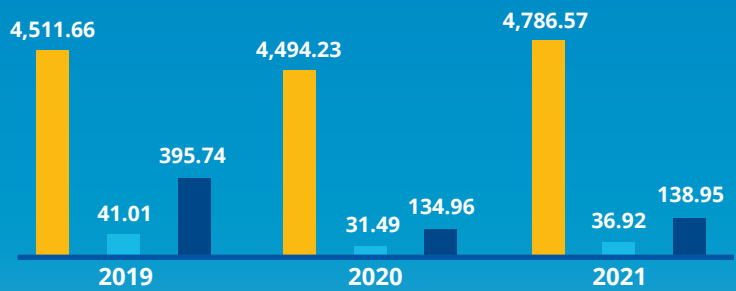
Penghematan energi di bisnis petrokimia
Energy saving in petrochemical business

4,424.4 GJ

Pemakaian energi terbarukan di bisnis petrokimia
Use of renewable energy in petrochemical business

PENGGUNAAN AIR (Megaliter) WATER USAGE

- Petrokimia
Petrochemical
- Energi
Energy
- Properti dan Hotel
Property and Hotel



PENGURANGAN LIMBAH DAN EMISI

REDUCTION OF WASTE AND EMISSION

Pengoperasian *Enclosed Ground Flare* (EGF) di pabrik petrokimia

Operation of Enclosed Ground Flare at
petrochemical plant



Meminimalkan dampak lingkungan kebisingan
dan menghilangkan nyala api dan asap
dari pembakaran hidrokarbon

Minimizing the environmental impact of noise
and eliminating flames and smoke from
the combustion of hydrocarbons

**EKONOMI SIRKULER
CIRCULAR ECONOMY**

**Aspal Plastik
Plastic Asphalt**

281,971 kg

Sampah kantong plastik untuk campuran aspal
Plastic bag waste for asphalt mixture

50.8 km

Panjang jalan aspal plastik
Plastic asphalt road length

* Sejak 2018 hingga 2021
* Since 2018 until 2021



End-to-end Waste Management

Fasilitas pengelolaan sampah plastik binaan Chandra Asri, IPST Asri, mengelola sampah secara menyeluruh sehingga mengurangi timbulan sampah ke Tempat Pembuangan Akhir.
Comprehensive plastic waste management at IPST Asri, a plastic waste management facility fostered by Chandra Asri, to reduce waste generation to landfill.

**KEANEKARAGAMAN HAYATI
BIODIVERSITY**

Konservasi mangrove dan Taman Kehati Asri oleh Chandra Asri
Mangrove and Taman Kehati Asri conservation by Chandra Asri



- Flora endemik:
Endemic plants:
- Nam nam (*Cynometra Cauliflora*)
 - Rambutan Parakan (*Arytera litoralis*)

Konservasi di Star Energy Geothermal
Conservation in Star Energy Geothermal



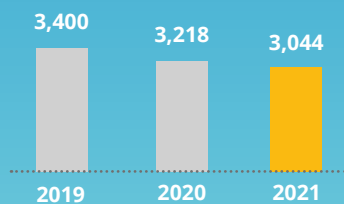
- Satwa langka dalam IUCN Red List:
Endangered Species in IUCN Red List:
- Elang Jawa | Javanese eagle (*Nisaetus bartelsi*)
 - Macan tutul | Leopards (*Panthera pardus melas*)
 - Owa Jawa | Javanese gibbons (*Hylobates moloch*)

ASPEK SOSIAL

Social Aspect

**KETENAGAKERJAAN
EMPLOYMENT**

Jumlah Angkatan Kerja
Number of Workforces



**KESEHATAN DAN KESELAMATAN KERJA
OCCUPATIONAL HEALTH AND SAFETY**

0
Jumlah Kecelakaan Fatal
Number of Fatal Accidents

**PROGRAM TANGGUNG JAWAB SOSIAL
CORPORATE SOCIAL RESPONSIBILITY PROGRAMS**

Beasiswa
Scholarships

27

anak karyawan/
employee children

86

penerima manfaat/
beneficiaries

12

penerima manfaat/
beneficiaries



Penerima manfaat Beasiswa Barito Pacific

Beneficiaries of Barito Pacific Scholarship Program

Program beasiswa Chandra Asri

Chandra Asri's scholarship Program

Penerima manfaat Desa Terampil – Beasiswa Prestasi Star Energy Geothermal Wayang Windu

Beneficiaries of Desa Terampil – Beasiswa Prestasi program by Star Energy Geothermal Wayang Windu

Literasi
Literacy



Donasi rak buku dan 957 buku bacaan kepada 9 sekolah dan taman baca masyarakat oleh Chandra Asri

Donation of bookshelves and 957 books to 9 schools and community library by Chandra Asri

Donasi 407 koleksi buku dan 2 unit komputer kepada Perpustakaan Taman Pamekar oleh Star Energy Geothermal Salak

Donation of 407 books and 2 units of computer to Taman Pamekar Library by Star Energy Geothermal Salak

Pendidikan
Usia Dini
Early Childhood
Education

Chandra Asri memberikan dukungan membangun PAUD Nusantara di Desa Mangunreja, dan PAUD Cahaya Bintang di Desa Grogol Indah, Kabupaten Serang

Chandra Asri provided support for the construction of PAUD Nusantara at Mangunreja Village and PAUD Cahaya Bintang at Grogol Indah Village, Serang Regency

Kurikulum
SMK Pertanian
Agricultural
Vocational
High School
Curriculum
Development

Pilot project uji coba kurikulum di SMK Pertanian Napal Putih, Jambi

Pilot project at Napal Putih Agricultural Vocational Highschool, Jambi





TENTANG BARITO PACIFIC

About Barito Pacific

SEKILAS PERUSAHAAN

Company Overview

Perseroan melakukan pencatatan saham perdana di Bursa Efek Indonesia pada tahun 1993, dan mengubah namanya menjadi PT Barito Pacific Tbk pada tahun 2007. Saat ini Perseroan adalah pemegang saham mayoritas di PT Chandra Asri Petrochemical Tbk, produsen petrokimia terbesar dan terintegrasi di Indonesia. Perseroan juga memperbesar bisnisnya ke sektor energi terbarukan dengan mengakuisisi mayoritas saham di Star Energy Group Holdings Pte. Ltd. ("Star Energy"), yang merupakan produsen listrik bertenaga panas bumi di Indonesia dengan total kapasitas terpasang 875 MW.

Pada tahun 2017, Perseroan melalui entitas anak, membentuk perusahaan patungan bersama PT Indonesia Power dengan nama PT Indo Raya Tenaga ("IRT"). Saat ini IRT tengah mengembangkan proyek pembangkit listrik *ultra-super critical* bertenaga batu bara dengan kapasitas 2 x 1.000 MW (Jawa 9 & 10) di Provinsi Banten, yang diharapkan dapat mulai beroperasi secara komersial pada tahun 2025.

Bisnis properti dioperasikan melalui PT Griya Idola dan entitas-entitas anaknya. Bisnis ini bergerak dalam bidang investasi dan pengembangan properti untuk kebutuhan komersial dan industri yang mendukung kegiatan petrokimia dan energi kami.

The Company listed its initial shares on the Indonesia Stock Exchange in 1993, and changed its name to PT Barito Pacific Tbk in 2007. As for now, the Company is the majority shareholder in PT Chandra Asri Petrochemical Tbk, the largest integrated petrochemical producer in Indonesia. The Company also expanded its business into the renewable energy sector by acquiring a majority share in Star Energy Group Holdings Pte. Ltd. ("Star Energy"), a geothermal power producer in Indonesia with a total installed capacity of 875 MW.

In 2017, the Company, through its subsidiary, formed a joint venture company with PT Indonesia Power under the name PT Indo Raya Tenaga ("IRT"). IRT is currently developing a coal-fired ultra-supercritical power plant with a capacity of 2 x 1,000 MW (Jawa 9 & 10) in Banten Province, which is expected to start operating commercially in 2025.

The property business is operated through PT Griya Idola and its subsidiaries. This business is engaged in investment and property development for commercial and industrial needs that support our petrochemical and energy activities.



VISI DAN MISI Vision and Mission

VISI VISION

Untuk memberikan dampak lebih di atas keuntungan, yang berguna untuk membangun nilai-nilai keberlanjutan bagi masyarakat, industri, komunitas sekitar kita di dalam maupun di luar Indonesia.

To create impact beyond returns that builds sustainable value for people, businesses, and communities, in and beyond Indonesia.

MISI MISSION

Untuk membangun jejaring ide, sumber daya manusia, serta modal yang senantiasa membuka peluang usaha, masyarakat, serta mitra yang penting untuk mendukung pertumbuhan ekonomi Indonesia di masa depan.

To operate a living, breathing network of ideas, talent, and capital, that actively unlocks the full potential of businesses, people, and partners critical to the next stage of Indonesia's growth.



NILAI-NILAI PERUSAHAAN Corporate Values

INTEGRITAS

INTEGRITY

Kami akan bersikap adil, jujur, terbuka, dan etis dalam segala hal dan kepada semua orang yang berhubungan dengan kami. Tingkah laku kami akan berada di bawah pengawasan publik.

We will be fair, honest, transparent, and ethical in our conduct at all times and with all those who come in contact with us. Our behavior will stand the test of public scrutiny.

KEUNGGULAN

EXCELLENCE

Kami bersemangat untuk meraih kualitas dan standar tertinggi, senantiasa mengutamakan manfaat atas apa yang kami lakukan dan bagaimana kami melakukannya.

We will be passionate about achieving the highest standards of quality, always promoting meritocracy in what we do and how we do it.

KEPEDULIAN

RESPONSIBLE CARE

Kami akan mengintegrasikan prinsip lingkungan dan sosial dalam bisnis kami untuk memajukan aspek keberlanjutan di seluruh level rantai nilai kami.

We will integrate environmental and social principles in our businesses to advance sustainability at all levels of our value chain.

AMBISI/ KEBERANIAN

AMBITION/COURAGE

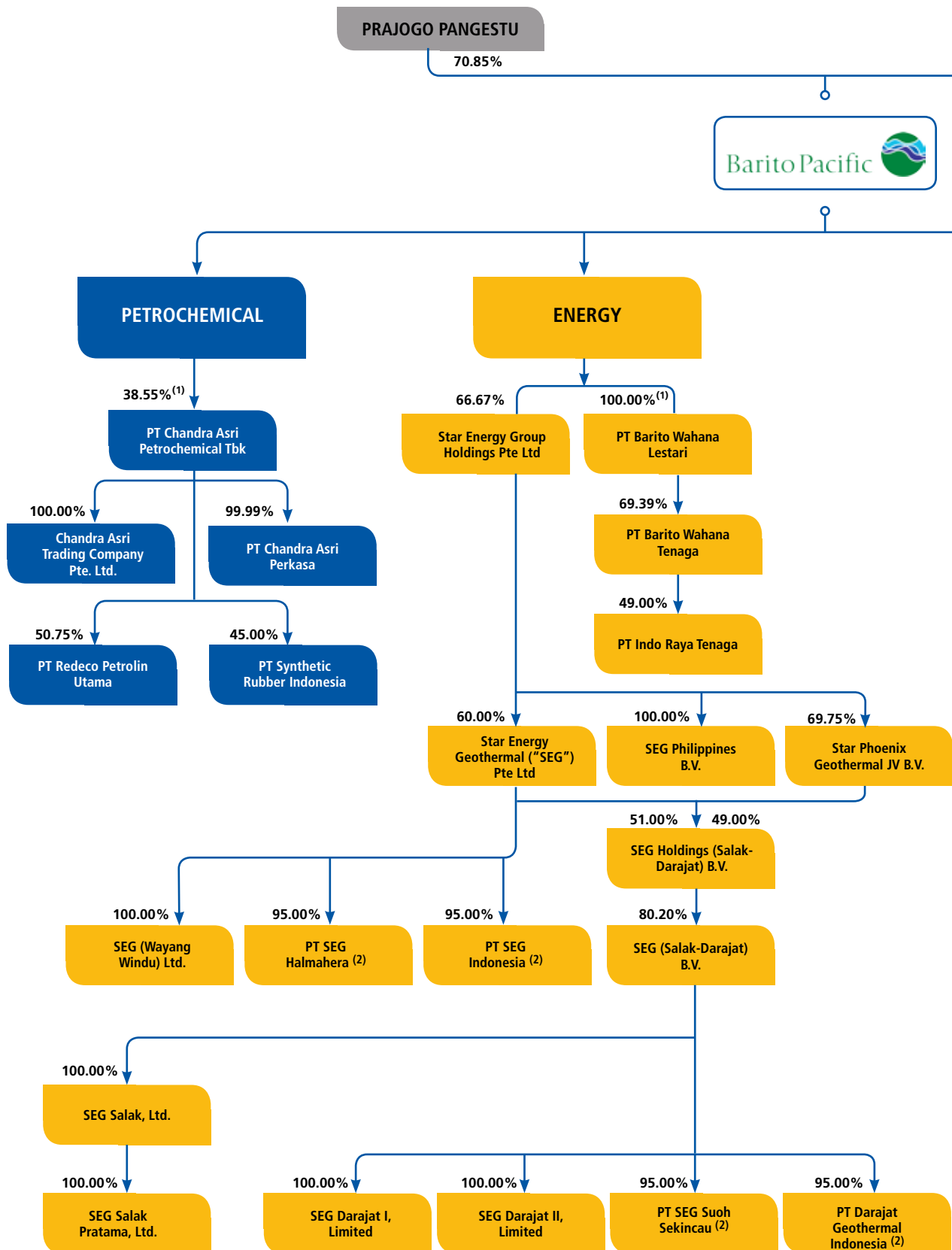
Kami akan menghadapi tantangan dengan berani dan meraih peluang usaha melalui riset terhadap pasar secara mendalam untuk berinovasi dan menghasilkan nilai bagi seluruh pemangku kepentingan kami.

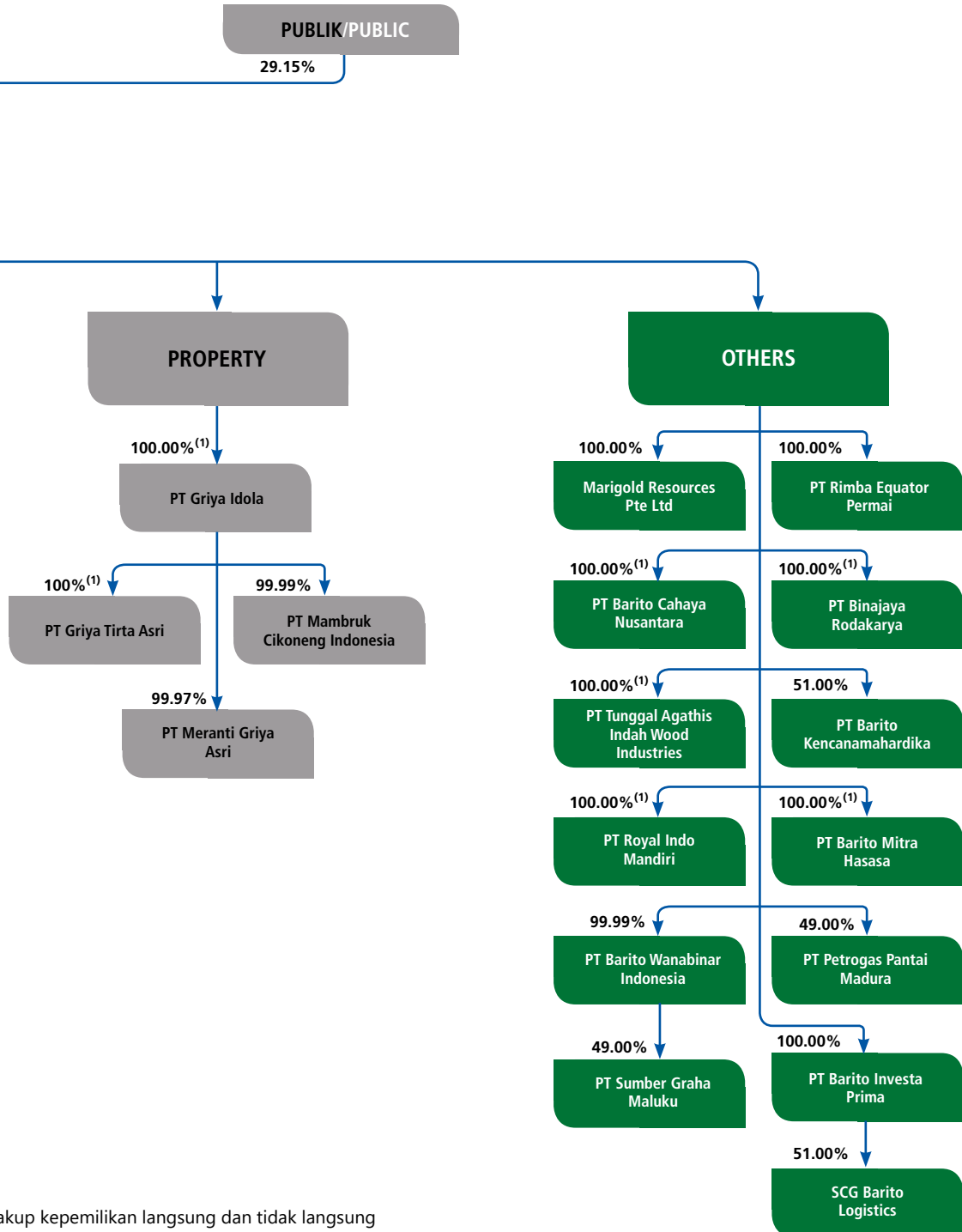
We will courageously pursue bold challenges and opportunities using our deep market insight to innovate and create value for all our stakeholders.



STRUKTUR GRUP

Group Structure





- (1) Mencakup kepemilikan langsung dan tidak langsung
Includes direct and indirect ownership
- (2) BRPT memiliki kepemilikan saham langsung sebesar 5%
BRPT has 5% direct ownership



KEBERLANJUTAN DAN BARITO PACIFIC

Barito Pacific and Sustainability

RESPONS BARITO PACIFIC TERHADAP PANDEMI COVID-19

Barito Pacific's Response to the COVID-19 Pandemic



Pandemi COVID-19 memberikan dampak yang amat besar tidak hanya pada aspek kesehatan dan kemanusiaan tetapi juga pada sektor ekonomi dan sosial di Indonesia dan seluruh dunia. Walaupun perekonomian nasional telah menunjukkan tanda-tanda pemulihan dengan pertumbuhan ekonomi yang positif sebagai hasil terlaksananya program Pemulihan Ekonomi Nasional dan program vaksinasi, terjadinya gelombang kenaikan kasus penularan akibat varian baru tetap menjadi tantangan bagi masyarakat termasuk bagi mereka yang belum sepenuhnya bisa pulih.

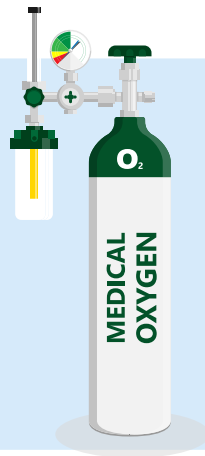
Dengan bisnis inti di bidang energi dan petrokimia, Barito Pacific berupaya untuk menjaga keberlangsungan operasinya dengan tetap memprioritaskan kesehatan dan keselamatan karyawan dan keluarga melalui penerapan prosedur pencegahan dan penanggulangan penularan penyakit di tempat kerja. Perseroan juga terus mendukung pemerintah dan masyarakat Indonesia dengan mendukung tenaga medis, fasilitas layanan kesehatan, serta membantu ekonomi masyarakat terdampak.

The COVID-19 pandemic has had a huge impact not only on health and humanitarian aspects but also on the economic and social sectors in Indonesia and throughout the world. Although the national economy has shown signs of recovery with positive economic growth due to the implementation of the National Economic Recovery program and vaccination program, the increasing wave of transmission cases due to new virus variants remains a challenge for the community, including those who have yet fully recovered.

With core business in the energy and petrochemical fields, Barito Pacific strives to maintain the continuity of our operations while prioritizing the health and safety of employees and their families through disease transmission prevention and control procedures in the workplace. The Company also continues to support the government and the Indonesian people by supporting medical workers, health service facilities, as well as helping to restore the economy of affected communities.

MEI / MAY 2021

Yayasan Bakti Barito ikut berpartisipasi dalam program pengiriman bantuan kemanusiaan dari Pemerintah Republik Indonesia ke India berupa 2.000 tabung oksigen dengan tujuan mendukung komitmen Pemerintah untuk membantu India menanggulangi pandemi.



Bakti Barito Foundation participated in the humanitarian aid program from the Government of the Republic of Indonesia to India in the form of 2,000 oxygen cylinders to support the Government's commitment to assist India in overcoming the pandemic.

JUNI / JUNE 2021

Anak usaha PT Griya Idola, menyalurkan bantuan berupa paket sembako kepada Pemerintah Kabupaten Tangerang bagian dari program Griya Idola Care yang merupakan bantuan yang dihimpun secara kolektif dari para *tenant* kawasan industri Griya Idola Industrial Park.



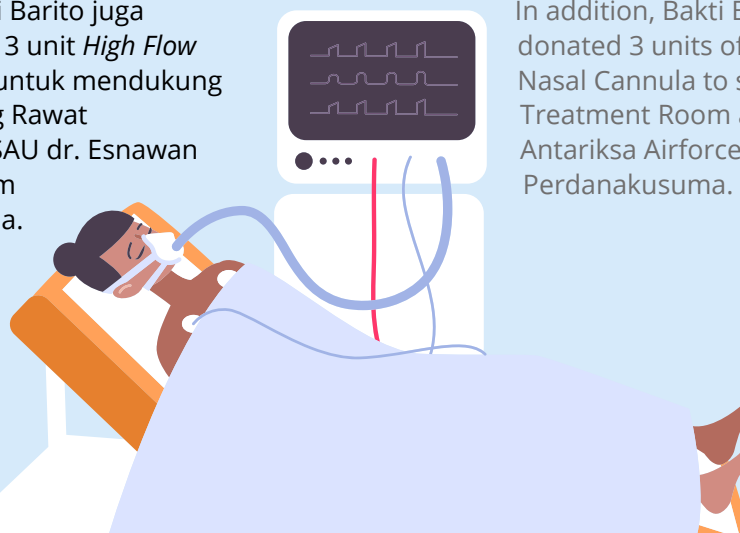
PT Griya Idola, a subsidiary, distributed staple food packages to Tangerang Regency Government as part of the Griya Idola Care program which is a collective assistance from the tenants of Griya Idola Industrial Park area.

JULI / JULY 2021

Barito Pacific melalui Yayasan Bakti Barito (Bakti Barito), bersama Yayasan Temasek mendonasikan 3.000 unit konzentrador oksigen kepada Pemerintah Indonesia untuk menghadapi kenaikan kasus yang terjadi pada bulan Juni-Juli 2021.

Barito Pacific through Bakti Barito Foundation (Bakti Barito), along with Temasek Foundation have donated 3,000 units of oxygen concentrators to the Government of Indonesia to deal with the increase in cases in June-July 2021.

Selain itu, Bakti Barito juga mendonasikan 3 unit *High Flow Nasal Cannula* untuk mendukung kegiatan Ruang Rawat Lapangan di RSAU dr. Esnawan Antariksa, Halim Perdanakusuma.



In addition, Bakti Barito also donated 3 units of High Flow Nasal Cannula to support the Field Treatment Room at dr. Esnawan Antariksa Airforce Hospital, Halim Perdanakusuma.

AGUSTUS / AUGUST 2021

Perseroan berpartisipasi dalam kegiatan *Corporate Social Responsibility* (CSR) Pasar Modal Indonesia membantu penanggulangan COVID-19. Donasi yang diterima oleh BEI, KPEI, dan KSEI disumbangkan ke sentra vaksinasi, donor plasma, rumah sakit darurat COVID-19, Gerakan Oksigen untuk Indonesia, dan lainnya. (#InvestasiAndaMenolongSesama).



The Company participated in the Corporate Social Responsibility (CSR) activity of the Indonesian Capital Market to help overcome COVID-19. Donations received by BEI, KPEI, and KSEI were distributed to vaccination centers, plasma donors, COVID-19 emergency hospitals, Oxygen for Indonesia Movement, and others. (#InvestasiAndaMenolongSesama).

NOVEMBER 2021

Perseroan mendonasikan tenda bencana kepada Palang Merah Indonesia (PMI). Sepuluh tenda bencana tersebut digunakan dalam membantu penanganan pandemi dibuat dengan spesifikasi khusus yang dapat digunakan untuk berbagai keperluan, seperti tenda untuk melaksanakan vaksinasi, bantuan medis, dapur umum, dan lain sebagainya.

The Company donated disaster tents to the Indonesian Red Cross (PMI). The ten disaster tents, which were used to help pandemic response, were made with special specifications that can be used for various purposes, such as for vaccinations, medical assistance, public kitchens, and others.

Perseroan dan anak perusahaan bersama Bakti Barito menyelenggarakan program vaksinasi gratis bagi warga masyarakat terutama yang tinggal di sekitar wilayah operasi Chandra Asri dan Star Energy Geothermal.



The Company and its subsidiaries together with Bakti Barito held free vaccination programs for the community, especially those living around the operations of Chandra Asri and Star Energy Geothermal.

Sejak Maret 2020, berbagai perlengkapan kesehatan dan kebutuhan pokok telah didonasikan oleh Pendiri Grup Barito Pacific, Bapak Prajogo Pangestu, bersama anak usaha melalui Yayasan Bakti Barito kepada masyarakat. Nilai bantuan mencapai total 100 miliar rupiah, mencakup puluhan ribu masker medis, ratusan liter oksigen cair, puluhan konsentrator oksigen, alat pelindung diri (APD), *mobile lab* PCR, ventilator, ribuan ton beras, dan lainnya.

Since March 2020, various health equipment and basic needs has been donated by the Founder of Barito Pacific Group, Mr. Prajogo Pangestu, together with subsidiaries through Bakti Barito Foundation to the community. The donation value reached a total of IDR100 billion, which include tens of thousands of medical masks, hundreds of liters of liquid oxygen, dozens of oxygen concentrators, personal protective equipment (PPE), mobile PCR labs, ventilators, thousands of tons of rice, and others.

STRATEGI KEBERLANJUTAN

Sustainability Strategy



Kondisi pandemi yang berkepanjangan tidak menghalangi optimisme dan resiliensi Barito Pacific untuk selalu memberikan kontribusi yang berarti bagi masyarakat, industri dalam negeri, dan negara di tengah segala keterbatasan yang ada. Perseroan menjalankan kegiatan usaha yang mendukung perkembangan ekonomi, pelestarian lingkungan, kesejahteraan sosial, serta pencapaian Tujuan Pembangunan Berkelanjutan, sekaligus menempatkan kesehatan karyawan dan masyarakat sebagai prioritas utama.

INVESTASI TEKNOLOGI BERSIH

Sepanjang tahun pelaporan, Perseroan dan unit usaha melakukan berbagai investasi dan inovasi yang ramah lingkungan. Chandra Asri yang mulai memanfaatkan energi bersih dari panel surya sejak 2019, kini telah menyelesaikan instalasi panel surya tahap-II untuk memasok energi listrik ke gudang, gedung laboratorium, dan stasiun pengisian untuk 53 *forklift* listrik, bekerja sama dengan Total Solar

The continued pandemic condition does not hinder Barito Pacific's optimism and resilience to consistently make a meaningful contribution to society, domestic industry, and the country amid all existing limitations. The Company carries out business activities that support economic development, environmental conservation, social welfare, and the achievement of the Sustainable Development Goals, while placing the health of employees and the community as a top priority.

CLEAN TECHNOLOGY INVESTMENT

Throughout the reporting year, the Company and its business units have made various environmentally friendly investments and innovations. Chandra Asri started utilizing clean energy from solar panels in 2019 and has now completed the installation of phase-II solar panels to supply electricity to warehouses, laboratory buildings and charging stations for 53 electric

dan BYD. Chandra Asri juga memulai kerja sama dengan Ecolab untuk mengembangkan *green chemistry* yang dimulai dengan *improvement* dan optimasi pengelolaan air di Site Office Ciwandan.

Teknologi bersih juga menjadi bagian dari pengembangan bisnis unit usaha energi. Pada Juni 2021, Star Energy Geothermal telah menandatangani kontrak pembangunan pembangkit *geothermal* Proyek Binary bersama Ormat Technologies Inc. dan PT Tripatra. Fasilitas yang diharapkan dapat beroperasi di akhir tahun 2022 ini memanfaatkan air panas (*brine*) dari sumur uap panas bumi di lapangan Salak dengan menggunakan teknologi *Organic Rankine Cycle* (ORC), yang dapat meminimalkan "*footprint*" di lahan konservasi, untuk memproduksi listrik.

Inisiatif ini diproyeksikan menambah energi bersih sebesar 13-15 MW (*gross*) dari lapangan Salak. Investasi ini juga sejalan dengan misi Star Energy Geothermal untuk memproduksi listrik dari sumber energi terbarukan sebesar 1.200 MW pada 2028.

PILAR-PILAR KEBERLANJUTAN

Grup Barito Pacific menetapkan tiga pilar keberlanjutan utama, yaitu pelestarian lingkungan, edukasi, dan ekonomi sirkuler, yang sekaligus menjadi fokus utama Perseroan dalam melaksanakan tanggung jawab sosial dan lingkungan (CSR). Seluruh kegiatan CSR Perseroan dilaksanakan melalui Yayasan Bakti Barito (Bakti Barito) yang bersinergi dengan seluruh anak perusahaan dalam pelaksanaan program.

Bakti Barito menyelenggarakan program serta melakukan koordinasi dan pemantauan program tanggung jawab sosial dan lingkungan Grup Barito Pacific agar sejalan dengan pencapaian Tujuan Pembangunan Berkelanjutan serta menjangkau area yang lebih luas.

forklifts, in collaboration with Total Solar and BYD. Chandra Asri also started a collaboration with Ecolab to develop green chemistry starting with improvement and optimization of water management at Ciwandan Site Office.

Clean technology is also part of the business development of the energy business unit. In June 2021, Star Energy Geothermal has signed a contract for the construction of the Binary Project geothermal power plant with Ormat Technologies Inc. and PT Tripatra. The facility, which is expected to be operational by the end of 2022, utilizes brine from geothermal steam wells in Salak field using Organic Rankine Cycle (ORC) technology, which can minimize "*footprint*" on conservation land to produce electricity.

This initiative is estimated to add 13-15 MW of clean energy (*gross*) from Salak field. The investment is also in line with Star Energy Geothermal's mission to produce 1,200 MW of electricity from renewable energy sources by 2028.

SUSTAINABILITY PILLARS

Barito Pacific Group has established three main sustainability pillars, namely environmental conservation, education, and circular economy, which are also the main focus of the Company's social and environmental responsibility (CSR). All the Company's CSR activities are carried out through Bakti Barito Foundation (Bakti Barito) in collaboration with all subsidiaries in its program implementation.

Bakti Barito organizes programs as well as coordinates and monitors the social and environmental responsibility programs of the Barito Pacific Group to be in line with the Sustainable Development Goals and reach a wider area.

PILAR KEBERLANJUTAN UTAMA DAN TUJUAN PEMBANGUNAN BERKELANJUTAN

MAIN SUSTAINABILITY PILLARS AND THE SUSTAINABLE DEVELOPMENT GOALS



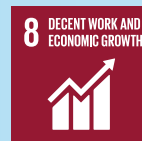
EDUKASI EDUCATION



EKONOMI SIRKULER CIRCULAR ECONOMY



KESEJAHTERAAN MASYARAKAT COMMUNITY WELFARE



PELESTARIAN LINGKUNGAN ENVIRONMENTAL CONSERVATION





MASYARAKAT

Community

DAMPAK KEGIATAN USAHA

Impact of Business Activities



Dampak signifikan kegiatan usaha Perseroan di bidang ekonomi, sosial, dan lingkungan terutama terjadi pada kegiatan operasional anak perusahaan terhadap masyarakat sekitar baik langsung maupun tidak langsung. Perseroan dan anak perusahaan mengelola dampak kegiatan usaha dengan melaksanakan studi kelayakan dan analisis dampak lingkungan dan sosial, menyusun rencana pengelolaan dan pemantauan, serta melaksanakan kajian pemetaan sosial, untuk kemudian melaporkan hasilnya kepada regulator sesuai ketentuan yang berlaku.

The significant impact of the Company's business activities on the economic, social, and environmental fields, mainly occurs in the operational activities of the subsidiaries on the surrounding community, either directly or indirectly. The Company and its subsidiaries manage the impact of business activities by conducting feasibility studies and environmental and social impact analysis, preparing management and monitoring plans, as well as carrying out social mapping studies, and report the results to the regulator in accordance with applicable regulations.

RINGKASAN DAMPAK SOSIAL PERSEROAN
 SUMMARY OF THE COMPANY'S SOCIAL IMPACT

Barito Pacific

- + Perseroan menyediakan lapangan pekerjaan dan peluang pertumbuhan ekonomi melalui kegiatan dan pengembangan usaha yang dilakukan. The Company provides employment and economic growth opportunities through its activities and business development.
- Penggunaan sumber daya alam dan timbulan limbah dari kegiatan perkantoran. Use of natural resources and waste generation from office activities.

Petrokimia/Petrochemicals

- + Pabrik petrokimia terintegrasi terbesar memberikan peluang kesempatan kerja, pengembangan kompetensi dan teknologi, memasok bahan baku bagi industri, dan menciptakan peluang ekonomi dari kegiatan pemasok barang dan jasa, serta kegiatan pengembangan masyarakat sekitar. The largest integrated petrochemical plant provides employment opportunities, competency and technology development, supplies raw materials for industries, and creates economic opportunities from goods and services supplier activities, as well as community development activities.
- Risiko keselamatan yang tinggi bagi karyawan serta masyarakat sekitar, serta dampak lingkungan berupa emisi yang timbul dari kegiatan operasional, pemeliharaan, dan transportasi. High safety risk for employees and the surrounding community, as well as environmental impacts in the form of emissions from operational, maintenance, and transportation activities.

Energi/Energy

- + Perseroan memasok listrik dari sumber energi terbarukan yang rendah emisi Gas Rumah Kaca, dan menyelenggarakan kegiatan pengembangan masyarakat serta pelestarian lingkungan di sekitar wilayah operasional. The Company supplies electricity from renewable energy sources with low Greenhouse Gas emissions and organizes community development and environmental conservation activities around its operational areas.
- Sumber panas bumi umumnya berada di kawasan vulkanis sensitif bencana dan berada di dekat wilayah lindung dengan keanekaragaman hayati tinggi, namun masyarakat memiliki akses terbatas untuk meningkatkan kegiatan ekonomi. Geothermal sources are generally located in disaster sensitive volcanic areas and near protected areas with high biodiversity, but limited access for the community to increase economic activities.

Properti dan Hotel/Property and Hotel

- + Bidang usaha kawasan industri, gedung perkantoran, dan hotel membuka peluang kerja bagi masyarakat sekitar dan mendorong pertumbuhan ekonomi. Industrial estates, office buildings, and hotels provide employment opportunities for the surrounding community and encourage economic growth.
- Limbah dan emisi yang dihasilkan memengaruhi kualitas lingkungan sekitar. Generated waste and emissions affect the quality of the surrounding environment.

PENGEMBANGAN MASYARAKAT [413-1]

Community Development

Barito Pacific dan anak perusahaan melaksanakan kegiatan tanggung jawab sosial dan lingkungan (TJSL atau *Corporate Social Responsibility/CSR*) untuk menciptakan kualitas hidup yang lebih baik bagi masyarakat dan menjaga kelestarian lingkungan terutama di sekitar wilayah kegiatan usaha. Sebagai bentuk kontribusi terhadap upaya pembangunan berkelanjutan, program CSR Perseroan didesain untuk mendukung pencapaian Tujuan Pembangunan Berkelanjutan termasuk menurunkan laju perubahan iklim yang telah menjadi komitmen global.

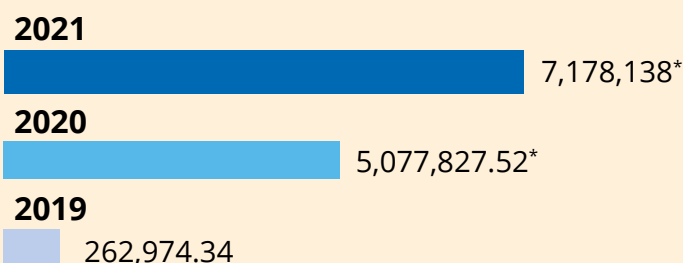
Seluruh kegiatan CSR Perseroan dilaksanakan melalui Yayasan Bakti Barito (Bakti Barito), yang didirikan sejak 2011 dengan misi utama memastikan peningkatan kualitas pendidikan, kesejahteraan masyarakat, dan kelestarian lingkungan hidup. Bakti Barito memiliki 4 (empat) pilar program keberlanjutan yaitu, pendidikan, lingkungan, ekonomi, dan sosial (termasuk bantuan kemanusiaan, infrastruktur, dan kesehatan). Dalam pelaksanaan program, Bakti Barito juga bersinergi dengan seluruh anak perusahaan Grup Barito Pacific.

Barito Pacific and its subsidiaries carry out social and environmental responsibility activities (Corporate Social Responsibility/CSR) to create a better quality of life for the community and to preserve the environment, especially around the area of business activities. As a form of contribution to sustainable development efforts, the Company's CSR programs are designed to support the achievement of the Sustainable Development Goals including slowing down the rate of climate change which has become a global commitment.

All the Company's CSR activities are carried out through Bakti Barito Foundation (Bakti Barito), which was established in 2011 with the main mission of ensuring the improvement of education quality, community welfare, and environmental sustainability. Bakti Barito has 4 (four) pillars of sustainability programs, namely education, environment, economy, and social (including humanitarian assistance, infrastructure, and health). In its program implementation, Bakti Barito also synergizes with all subsidiaries of Barito Pacific Group.

BIAYA PENGEMBANGAN SOSIAL KEMASYARAKATAN DAN LINGKUNGAN (US\$)

SOCIAL AND ENVIRONMENTAL DEVELOPMENT INVESTMENT (US\$)



*) Termasuk penanganan pandemi dan kegiatan CSR lainnya dari Grup Barito Pacific
 Including pandemic response and other CSR activities from Barito Pacific Group
 Kurs tengah (2021) US\$1=Rp14.300
 Middle rate (2021) US\$1=IDR14,300

EVALUASI PROGRAM CSR

CSR Program Evaluation

Untuk mengukur dampak pelaksanaan program-program CSR, Perseroan menggunakan pendekatan *Social Return of Investment* (SROI) sebagai salah satu metode evaluasi. Hasil evaluasi sekaligus digunakan sebagai indikator kinerja utama dalam perancangan program CSR berikutnya dan menjadi dokumen penyertaan untuk penilaian Program Penilaian Peringkat Kinerja Perusahaan dalam Pengelolaan Lingkungan Hidup (PROPER) di unit-unit bisnis yang ikut serta.

To measure the impact of CSR program implementations, the Company uses the Social Return of Investment (SROI) approach as one of the evaluation methods. The results of the evaluation are also used as the main performance indicators for designing future CSR program and serve as an accompanying document for the assessment of the Company Performance Rating Program in Environmental Management (PROPER) in participating business units.

PROGRAM PENDIDIKAN

Education Program

Dalam bidang Pendidikan, Perseroan menjalankan sejumlah program yang meliputi beasiswa inklusif, pengembangan kompetensi tenaga pendidik, peningkatan akses pendidikan formal dan non formal bagi masyarakat, dan pendidikan pembangunan berkelanjutan.

In the field of education, the Company runs several programs which include inclusive scholarships, competency development for educators, improving access to formal and non-formal education for the community, and sustainable development education.

BEASISWA

Pada 2021, Perseroan tetap menyalurkan Beasiswa Barito Pacific kepada 27 anak karyawan yang berprestasi. Program beasiswa juga diselenggarakan oleh anak usaha Chandra Asri melalui pemberian beasiswa *full tuition* bagi yatim dan duafa kepada 6 siswa di Kawasan Ring-1 untuk jenjang perguruan tinggi.

SCHOLARSHIP

In 2021, the Company continued to distribute Barito Pacific Scholarships to 27 children of employees who excel in education. The scholarship program is also organized by a subsidiary, Chandra Asri, by providing full tuition higher education scholarships for orphans and the underprivileged to 6 students in Ring-1 area.

Selama lebih dari 10 tahun, Grup Barito Pacific telah memberikan:
For more than 10 years, Barito Pacific Group has awarded:

13,070

Beasiswa untuk pendidikan menengah pertama dan atas
Scholarships for secondary education

562

Beasiswa perguruan tinggi
University scholarships



PENGEMBANGAN KURIKULUM SMK PERTANIAN

Barito Pacific memiliki misi untuk memajukan sekolah menengah kejuruan (SMK) pertanian tepatnya bidang agribisnis dan agroteknologi. Untuk itu melalui Bakti Barito, Perseroan memfasilitasi pengembangan kurikulum pendidikan khususnya untuk SMK Pertanian di Indonesia. Program ini bertujuan untuk menciptakan petani baru atau *'new breed of farmers'* yang dapat berkontribusi menjaga ketahanan pangan nasional.

Bakti Barito melaksanakan inisiatif sejak tahun 2020 bekerja sama dengan The Learning Farm. Pada tahun 2021, program Pengembangan Kurikulum SMK Pertanian telah memasuki tahapan *pilot project* di SMK Pertanian Napal Putih Jambi pada Mei 2021 dan mulai diajarkan kepada guru-guru dari 6 SMK dari beberapa provinsi pada Desember 2021.

PERKEMBANGAN DAN KEMAJUAN SEKOLAH VOKASI REPUBLIK INDONESIA

Pada 13 September 2021, Bakti Barito bersama beberapa kelompok usaha swasta nasional menandatangani pakta komitmen kerja sama antara sektor industri dengan Dinas Pendidikan dan Kebudayaan Provinsi Jawa Tengah untuk perkembangan dan kemajuan Sekolah Vokasi Republik Indonesia. Penandatanganan pakta ini disaksikan oleh Menteri Pendidikan dan Kebudayaan Indonesia dan Walikota Solo.

Ke depannya, fokus kerja sama ini akan meliputi revitalisasi bangunan, peremajaan alat penunjang belajar mengajar, pengembangan *soft skill*, program *link-and-match* antara Sekolah Menengah Kejuruan (SMK) di Surakarta dan sekitarnya dengan kebutuhan pasar dan dunia industri, serta program-program lain yang nantinya akan disepakati oleh para pemangku kepentingan.

Program pendidikan juga menjadi pilar kegiatan tanggung jawab sosial dan lingkungan di anak perusahaan. Bekerja sama dengan Fakultas Teknik Universitas Tirtayasa, Chandra Asri juga memberikan bantuan Pendidikan dan pelatihan teknis industri kimia Anyer Merak Cilegon/ Chemical Manufacturer Association (P3TIK AMC/CMA) setara Diploma-1 kepada 12 mahasiswa.

AGRICULTURAL VOCATIONAL SCHOOL CURRICULUM DEVELOPMENT

Barito Pacific has a mission to enhance agricultural vocational schools, specifically in the fields of agribusiness and agrotechnology. For this reason, through Bakti Barito, the Company facilitates the development of educational curricula, especially for Agricultural Vocational Schools in Indonesia. This program aims to create *'new breed of farmers'* who can contribute to maintaining national food security.

Bakti Barito has carried out the initiative since 2020 in collaboration with The Learning Farm. The Agricultural Vocational School Curriculum Development program has entered the pilot project stage at Napal Putih Agricultural Vocational School, Jambi in May 2021 and has begun to be taught to teachers from 6 vocational schools from several provinces in December 2021.

THE DEVELOPMENT AND PROGRESS OF INDONESIAN VOCATIONAL SCHOOLS

On September 13, 2021, Bakti Barito together with several national private business groups signed a cooperation commitment pact between the industrial sector and the Education and Culture Office of Central Java Province for the development of Vocational Schools of the Republic of Indonesia. The signing of this pact was witnessed by the Minister of Education and Culture of Indonesia and the Mayor of Solo.

Going forward, the focus of this collaboration will include revitalizing buildings, rejuvenating teaching and learning supporting tools, developing soft skills, link-and-match programs between Vocational High Schools (SMK) in Surakarta and its surroundings with market and industrial needs, as well as programs to be agreed upon by stakeholders.

Education programs are also a pillar of social and environmental responsibility activities of subsidiaries. In collaboration with the Faculty of Engineering, Tirtayasa University, Chandra Asri also provides educational assistance and training for chemical industry technicians in Anyer Merak Cilegon/Chemical Manufacturer Association (P3TIK AMC/CMA) equivalent to Diploma-1 for 12 students.

Program beasiswa diberikan oleh Star Energy Geothermal (SEG) kepada pelajar berprestasi yang kurang mampu untuk menyelesaikan pendidikan mulai dari pendidikan dasar hingga perguruan tinggi. Hingga 2021, SEG telah memberikan 1.557 beasiswa untuk tingkat sekolah dasar hingga menengah atas dan 55 mahasiswa perguruan tinggi untuk wilayah Jawa Barat.

Star Energy Geothermal (SEG) provides scholarship program for underprivileged outstanding students to complete their education ranging from basic education to tertiary education. Until 2021, SEG has provided 1,557 scholarships for elementary to high school levels and 55 university students in West Java.

Keterlibatan anak perusahaan untuk meningkatkan akses Pendidikan bagi masyarakat sekitar wilayah operasi antara lain:

The involvement of subsidiaries to improve access to education for communities around the operational areas includes:

LITERASI/LITERACY

POJOK LITERASI/LITERACY CORNER
Rak buku untuk 9 sekolah dan 1 taman baca masyarakat serta 957 buku bacaan
Bookshelves for 9 schools and 1 community library along with 957 books

Rak buku yang didonasikan Chandra Asri terbuat dari limbah palet kayu bekerja sama dengan panglong lokal
The bookshelves from Chandra Asri were made of wood pallet waste in cooperation with local logging company

407 koleksi buku/
books


2 unit komputer/
units of computer

Donasi Star Energy Geothermal kepada Perpustakaan Taman Pamekar
Donation from Star Energy Geothermal for Taman Pamekar Library



PENDIDIKAN USIA DINI/EARLY CHILDHOOD EDUCATION

PENDIDIKAN ANAK USIA DINI (PAUD)/EARLY CHILDHOOD EDUCATION (PAUD)
Chandra Asri memberikan dukungan membangun PAUD Nusantara di Desa Mangunreja dan PAUD Cahaya Bintang di Desa Grogol Indah, Kabupaten Serang
Chandra Asri provided support for the construction of PAUD Nusantara at Mangunreja Village and PAUD Cahaya Bintang at Grogol Indah Village, Serang Regency



BEASISWA/SCHOLARSHIP


Penerima beasiswa Star Energy Geothermal
Beneficiaries of Star Energy Geothermal scholarship

1,071 siswa SD/
elementary students

306 siswa SMP/
junior high school students

180 siswa SMA/SMK/
high school/vocational high school students

55 siswa/students
Penerima beasiswa Star Energy Geothermal untuk kuliah di Universitas Padjajaran (Unpad) dan Politeknik Negeri Bandung (Polban)
Beneficiaries of Star Energy Geothermal scholarship for Padjadjaran University and Bandung National Polytechnic



PROGRAM LINGKUNGAN Environmental Program

Pengelolaan sampah masih menjadi tema sentral dalam pengelolaan lingkungan di Indonesia. Sebagai bentuk kontribusi untuk mengurangi jumlah sampah tidak terkelola yang menuju Tempat Pembuangan Akhir (TPA), Perseroan dan anak perusahaan di kantor pusat menerapkan program pengelolaan sampah terpadu mulai dari segregasi sedari awal hingga pengelolaan dengan daur pakai dan daur ulang. Program ini bekerja sama dengan Waste4Change dan Bank Sampah setempat, dengan melibatkan seluruh *tenant* yang berkantor di Wisma Barito Pacific.

Perseroan menyadari bahwa bisnis yang dijalankan anak usaha memiliki dampak yang signifikan terhadap kelestarian lingkungan. Konservasi keanekaragaman hayati merupakan salah satu program CSR Perseroan di bidang lingkungan dengan fokus utama untuk perlindungan dan pemulihan habitat yang menjadi fokus program Star Energy Geothermal. Keanekaragaman hayati menjadi terancam punah salah satunya karena perambahan hutan. Sehingga upaya konservasi harus dilakukan bersamaan dengan reforestasi dan revitalisasi kawasan hutan untuk memulihkan habitat.

Star Energy Geothermal juga menyelenggarakan program edukasi masyarakat dan petani dalam pelestarian lingkungan, pendidikan lingkungan, kesadaran, dan revitalisasi mata air. Edukasi lingkungan penting untuk menghadapi potensi bencana alam, menangani kondisi gawat darurat, serta mengelola potensi wisata lokal untuk dikembangkan menjadi destinasi ekowisata.

Waste management is still a central theme in environmental management in Indonesia. As a form of contribution to reduce the amount of unmanaged waste that goes into landfill, the Company and its subsidiaries at the head office implement an integrated waste management program starting from segregation to management by reuse and recycle. This program is in collaboration with Waste4Change and the local Waste Bank, involving all tenants at Wisma Barito Pacific.

The Company realizes that the businesses run by its subsidiaries have a significant impact on environmental sustainability. Biodiversity conservation is one of the Company's CSR programs in the environmental field which concentrate on habitat protection and restoration which is the focus of Star Energy Geothermal's program. Biodiversity is threatened with extinction, with deforestation as one of the causes. Therefore, conservation efforts must be carried out simultaneously with reforestation and revitalization of forest areas to restore habitats.

Star Energy Geothermal also organizes community and farmer education programs in environmental conservation, environmental education, awareness, and revitalization of springs. Environmental education is important to deal with potential natural disasters, handle emergency conditions, and manage local tourism potential to be developed into ecotourism destinations.

PENANAMAN POHON/TREE PLANTING

12,276

batang pohon/trees

Penanaman pohon melalui *Green Corridor Initiatives* di lahan seluas 20 Ha oleh SEGS
Tree planting through the *Green Corridor Initiatives* on an area of 20 Ha by SEGS

27,500

batang pohon/trees

Program *Green Belt* oleh SEGS
Green Belt program by SEGS

3,150

batang pohon/trees

Konservasi wilayah tangkapan air Sungai Cisarua dan DAS Cikaluwung oleh SEGS
Conservation trees at the catchment area of Cisarua River and Cikaluwung watershed by SEGS



KEANEKARAGAMAN HAYATI/BIODIVERSITY

159

individu/individuals

Konservasi *in-situ* fauna langka katak pohon dari famili *Rhacophoridae* oleh SEGS
 In-situ conservation for rare fauna of tree frogs from the *Rhacophoridae* family by SEGS

Inisiasi pengembangan kawasan edu-ekowisata mangrove di kawasan Lembur Mangrove Kampung Patikang, Desa Citeureup, Kecamatan Panimbang, Kabupaten Pandeglang
 Initiation of mangrove edu-ecotourism area development in the Lembur Mangrove area of Patikang Hamlet, Citeureup Village, Panimbang District, Pandeglang Regency

406

tanaman dari 35 jenis
 plants of 35 types

Flora di Taman Kehati Asri, dengan luas area 7.500 m²
 Flora at Taman Kehati Asri, an area of 7,500 m²



PROGRAM EKONOMI
 Economic Program

Perseroan melalui Bakti Barito mendukung tujuan ketahanan pangan Indonesia melalui program-program yang mendukung ketahanan dan kemandirian pangan masyarakat melalui Program Bakti Pangan Lestari bekerja sama dengan The Learning Farm. Melalui program ini, Perseroan mengadakan program pelatihan di Cianjur, Jawa Barat, untuk guru-guru SMK dari sejumlah provinsi di Indonesia untuk mempromosikan prinsip pertanian berkelanjutan dan mendukung ketahanan pangan rumah tangga maupun sumber pendapatan alternatif.

Bakti Barito juga telah memfasilitasi pegawai dan anggota masyarakat untuk turut berperan serta dalam program pertanian terpadu dengan mengusahakan kegiatan pertanian di pekarangan atau lahan sempit. Dalam Program ini, Bakti Barito bekerja sama dengan Joglo Tani. Tujuannya agar mereka dapat memenuhi kebutuhan pangan sehari-hari, bahkan memiliki surplus untuk dibagikan kepada tetangga di sekitarnya.

The Company through Bakti Barito supports Indonesia's food security goals through programs that support community food security and self-reliance in Bakti Pangan Lestari Program in collaboration with The Learning Farm. Through this program, the Company held trainings in Cianjur, West Java, for vocational-school teachers from several provinces in Indonesia to promote sustainable agriculture principles and support household food security and as alternative sources of income.

Bakti Barito has also facilitated employees and community members to participate in integrated agricultural programs by undertaking agricultural activities in small yards or land. The program, in collaboration with Joglo Tani, aims to equip participants in meeting daily food needs, and even have a surplus to share with their neighbors.

Program yang diinisiasi oleh Bakti Barito dan Joglo Tani yang ditargetkan dan dijalankan untuk Dinas Kehutanan atau KPHP (Kesatuan Pengelolaan Hutan Produksi) telah sukses dilakukan dan menghasilkan 10 kelompok tani dan 410 tani di berbagai daerah di Indonesia, seperti di Jambi, Kalimantan Timur, dan Yogyakarta.

The program initiated by Bakti Barito and Joglo Tani, targeted and implemented for the Forestry Service or KPHP (Production Forest Management Unit), has been successfully implemented and has resulted in 10 farmer groups and 410 farmers in various regions in Indonesia, such as Jambi, East Kalimantan, and Yogyakarta.

100

ekor domba/sheep

Untuk dibudidayakan oleh 52 petani yang berasal dari kelurahan Gunung Sugih, Desa Anyer, Desa Kosambironyok, dan Desa Grogol Indah
To be raised by 52 farmers from Gunung Sugih sub-district, Anyer Village, Kosambironyok Village, and Grogol Indah Village



1,511

produk terjual/products sold

Anyaman bambu dan rumput wlingi karya pengrajin Tambang Ayam-Anyer Cisiram Umbul, binaan Chandra Asri
Woven bamboo and wild grass by Tambang Ayam-Anyer Cisiram Umbul craftsmen, fostered by Chandra Asri

2,646

masker kain batik Cilegon/
Cilegon batik cloth face masks

Buatan koperasi binaan Chandra Asri
Made by a cooperative fostered by Chandra Asri

PROGRAM SOSIAL Social Program

Grup Barito Pacific memfasilitasi pelaksanaan vaksinasi COVID-19 bagi masyarakat di sekitar wilayah operasi Chandra Asri, Star Energy Geothermal, dan Griya Idola. Dalam rangka penanggulangan dan penanganan pandemi ini pula, Perseroan turut serta memberikan donasi untuk membantu program penanggulangan COVID-19 yang diinisiasi oleh kegiatan *Corporate Social Responsibility* (CSR) Pasar Modal Indonesia. Seluruh pendapatan yang diterima dari program ini disumbangkan ke sentra vaksinasi, donor plasma, rumah sakit darurat COVID-19, Gerakan Oksigen untuk Indonesia, dan lain-lain.

Anak perusahaan, Chandra Asri bekerja sama dengan perusahaan swasta produsen gas medis, Asosiasi Rumah Sakit Daerah Seluruh Indonesia (ARSADA), menyalurkan 429 ton oksigen cair ke beberapa rumah sakit yang ada di DKI Jakarta dan Banten.

Barito Pacific Group facilitated the COVID-19 vaccination program for communities around the operating areas of Chandra Asri, Star Energy Geothermal, and Griya Idola. In pandemic response, the Company also provided donations to assist the COVID-19 prevention program initiated by the Indonesian Capital Market Corporate Social Responsibility (CSR) activities. All income received from this program is donated to vaccination centers, plasma donors, COVID-19 emergency hospitals, the Oxygen for Indonesia Movement, and others.

Chandra Asri, our subsidiary, in collaboration with a private medical gas producer, the Indonesian Regional Hospital Association (ARSADA), have distributed 429 tons of liquid oxygen to several hospitals in DKI Jakarta and Banten.

INFRASTRUKTUR/INFRASTRUCTURE

1

jembatan diresmikan/bridge inaugurated

Chandra Asri membangun jembatan di Curug - Cihara, Kabupaten Lebak dan di Tangkilsari di Kecamatan Cimanggu, Kabupaten Pandeglang untuk aksesibilitas masyarakat
Chandra Asri built a bridge in Curug - Cihara, Lebak Regency and in Tangkilsari in Cimanggu District, Pandeglang Regency for community access

AIR BERSIH DAN SANITASI/CLEAN WATER AND SANITATION

20

KK/households

Jamban sehat dan ramah lingkungan untuk di Kepuh dan Randakari dengan menggunakan *biotank*
Healthy and environmentally friendly toilets in Kepuh and Randakari using biotank

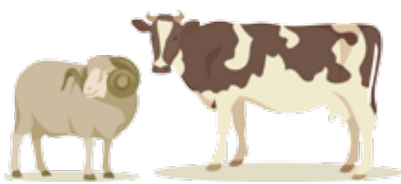


86

KK/households

Akses sumber air bersih untuk di Gunung Sugih dan Bandulu
Access to clean water in Gunung Sugih and Bandulu

KEMASYARAKATAN/COMMUNITY



75

ekor domba/
sheep

1

ekor sapi/
cow

Donasi hewan kurban kepada 46 instansi di Cilegon dan Kabupaten Serang, serta 40.450 kemasan plastik *thin-wall* sebagai wadah kemasan untuk distribusi daging kurban.
Donation for Eid al-Adha to 46 agencies in Cilegon and Serang Regency, as well as 40,450 thin-wall plastic packaging as containers for the distribution of sacrificial meat.



“Masyarakat Tangguh Bencana”

Inisiatif Star Energy Geothermal agar masyarakat lebih paham akan potensi bencana dan kelestarian lingkungan.
“Disaster Resilient Communities”
Star Energy Geothermal's initiative to increase community awareness on potential disasters and environmental sustainability.

KESEHATAN/HEALTH

53

anak/children

Penerima manfaat program Pos Gizi untuk Balita Gizi Kurang dan Gizi Buruk di wilayah Ciwandan, Citangkil, Anyer, dan Pulo Ampel
Beneficiaries of Nutrition Program for undernourished and malnourished toddlers in Ciwandan, Citangkil, Anyer, and Pulo Ampel



20

orang ibu hamil/pregnant women

Penerima manfaat program Makanan Bergizi Siap Antar untuk Ibu Hamil (MASITABU) dengan Kekurangan Energi Kronik atau anemia, untuk pencegahan kematian ibu dan bayi berat badan lahir rendah (BBLR) di Kecamatan Pulo Ampel
Beneficiaries of Nutrition Food Delivery Program for pregnant women with Chronic Energy Deficiency or anemia, for the prevention of maternal mortality and newborn with low birth weight (LBW) in Pulo Ampel District

Griya Idola, mendukung program vaksinasi bersama Polsek Cikupa Tangerang dan Gerai Vaksinasi PRESISI yang berlokasi di kawasan Griya Idola Industrial Park. Program ini bertujuan agar masyarakat yang tinggal di daerah sekitar mendapatkan perlindungan dari COVID-19

Griya Idola supported the vaccination program along with Cikupa Tangerang Police and PRESISI Vaccination Outlet in Griya Idola Industrial Park. This program aims to provide protection from COVID-19 for people living in surrounding areas



429

ton/ tons

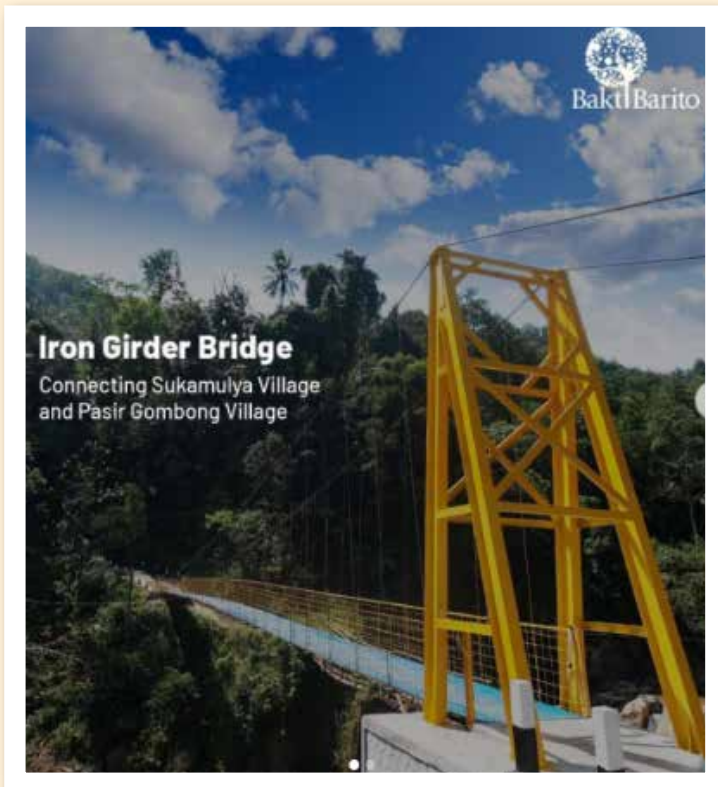
Oksigen cair yang disalurkan Chandra Asri ke beberapa rumah sakit yang ada di DKI Jakarta dan Banten
Liquid oxygen distributed by Chandra Asri to several hospitals in DKI Jakarta and Banten





Chandra Asri telah merampungkan pembangunan jembatan gelagar besi Tangkilsari untuk membuka akses antar warga di kecamatan Cimanggu dan kecamatan Sumur, Kabupaten Pandeglang. Jembatan Tangkilsari menjadi jembatan ketiga dari empat jembatan yang kami bangun sejak tahun 2017.

Chandra Asri has completed the construction of Tangkilsari iron girder bridge for access between residents in Cimanggu district and Sumur district, Pandeglang Regency. The Tangkilsari Bridge is the third of four bridges we have built since 2017.



Iron Girder Bridge
Connecting Sukamulya Village
and Pasir Gombong Village

Rekonstruksi jembatan di Kabupaten Lebak di daerah Kampung Curug Bandung, Lebak seluas 60m x 1,6m dengan desain tiang tunggal yang terinspirasi dari Kementerian PUPR.

Bridge reconstruction in Lebak Regency in Kampung Curug Bandung area, Lebak covering an area of 60m x 1.6m with a single-pole design inspired by the Ministry of Public Works and Public Housing.



KARYAWAN

Employees

PENGEMBANGAN SUMBER DAYA MANUSIA

Human Resources Development



Perseroan menjalankan bisnis yang memiliki risiko tinggi dan padat modal sehingga diperlukan sumber daya manusia (SDM) yang kompeten dan profesional. Oleh karenanya, Perseroan mengelola SDM secara komprehensif, termasuk melalui pengembangan kompetensi, karena SDM adalah kunci utama dalam bisnis kami.

PELATIHAN DAN PENDIDIKAN

Pengembangan kompetensi karyawan dilakukan sesuai dengan kebutuhan, dengan menyediakan berbagai kegiatan pelatihan dan pendidikan agar seluruh karyawan dapat berkembang serta menghasilkan kinerja yang optimal dalam mendukung keberlanjutan bisnis Perseroan. Cakupan pelatihan yang diselenggarakan meliputi pelatihan wajib (mutu dan K3), kompetensi inti, fungsional/teknikal, dan kepemimpinan.

The Company runs a high risk and a capital-intensive business which requires competent and professional human resources (HR). To fulfill these requirements, the Company manages HR comprehensively, including competency development, because HR is the main key in our business.

TRAINING AND EDUCATION

Employee competency development is carried out according to needs, by providing various training and educational activities as a means for employees to develop and perform optimally in supporting the Company's business continuity. The scope of training held includes mandatory training (quality and OHS), core, functional/technical, competencies, and leadership.

PROGRAM PELATIHAN DAN PENGEMBANGAN ^[404-2]

TRAINING AND DEVELOPMENT PROGRAM

Nama/Kategori Pelatihan Training Name/Programs	Jumlah Peserta Total Participants	Periode Pelaksanaan Implementation Period	Pelaksana Organizer
Chandra Asri			
Leadership Webinars	585	Feb-Nov 2021	Dale Carnegie, HR Excellency, Algoritma, City Training
Effective Leader Development Program	92	Feb-Nov 2021	Prasetya Mulia Business School
New Gen-Self Leadership Program	140	May-Nov 2021	HR Excellency
Manufacturing	7,357	Jan-Dec 2021	Internal
Manufacturing	2,005	Jan-Dec 2021	Eksternal External
Manufacturing	98	Jan-Dec 2021	Eksternal External
Non-Manufacturing	1,553	Jan-Dec 2021	Internal
Non-Manufacturing	2,583	Jan-Dec 2021	Eksternal External
Non-Manufacturing	154	Jan-Dec 2021	Eksternal External
New Employee Orientation Program (NEOP)	27	Jan-Dec 2021	Internal
English Programs	50	Oct-Dec 2021	Instruktur Eksternal External Instructor
Business Communication	40	Jan-Dec 2021	Eksternal External
Advanced Business Communication	20	Jan-Dec 2021	Eksternal External
SHE	4,300	Jan-Dec 2021	Internal
TQM	261	Jan-Dec 2021	Internal
Griya Idola			
Pelatihan Gada Utama	1	19-24 Sep 2021	PT Perisai Jaya Utama
Pelatihan Gada Pratama	22	11-25 Sep 2021	Badrika EBA Nusantara
Latihan Evakuasi Kebakaran	50	11-Dec-2021	Griya Idola & Dinas Pemadam Kebakaran
Griya Tirta Asri			
Pelatihan Fire System di Gedung Sociolla	10	06-Jun-2021	Notifier Indonesia
Pelatihan Operasional Damkar Hidran Kawasan	7	06-Jun-2021	PT Fajar Utama Jaya
Pelatihan Dock-Leveler	9	09-Jun-2021	Horman Indonesia
Koordinasi Operasional Kegiatan Industri dan Kawasan Industri selama PPKM Darurat	400	03-Jul-2021	Himpunan Kawasan Industri (HKI) dan Kementerian Perindustrian
Kebijakan & Implementasi PPKM Darurat di Industri	800	06-Jul-2021	HKI dan Kementerian Perindustrian
FGD Limbah B3	40	09-Jul-2021	HKI, Kementerian LH dan Kementerian Perindustrian
Penerapan Protokol Kesehatan pada Sektor Industri di Kabupaten Tangerang	100	02-Sep-2021	Dinas Perindustrian Kabupaten Tangerang
Operasional Industri & Kawasan Industri dengan IOMKI dan Peduli Lindungi	135	14-Sep-2021	Kementerian Perindustrian
Pelatihan Preventif Kebakaran Bersama Tenant	35	29-Dec-2021	PT Metropolitan Jaya Sukses
Mambruk Cikoneng Indonesia			
Pelatihan Produk F&B	233	Jan-Dec 2021	Internal
Pelatihan Layanan F&B	46	27-Aug & 15-16 Nov 2021	Internal
Uji Kompetensi – Sertifikasi BNSP	11	26-Mar-2021	BNSP
Berbagai SOP	163	Jul 2021	Internal
General Training	156	7-10 Sep 2021	Internal
Leisure & Recreation (LRE)	8	15-Sep-2021	ITB
LRE-Security	8	18-Sep-2021	PADI
Safety Briefing	4	7-Dec-2021	Internal

KARYAWAN EMPLOYEES

Nama/Kategori Pelatihan Training Name/Programs	Jumlah Peserta Total Participants	Periode Pelaksanaan Implementation Period	Pelaksana Organizer
FBS & FBP	31	11-12, 15 Oct 2021	Internal
SDM & Ketenagakerjaan	124	Nov-Dec 2021	Internal
VHP System for Engineering	2	27-Nov-2021	Internal
Star Energy Geothermal			
Structured Training Excellence Program (StarLEAD)			
Cross-Functional Training			
Geothermal 101	336	26 Jan 21 - 4 Aug 21	Internal
Power Plant Operations (PPO)			
Basic SHE	90	9 Jun 21 - 23 Dec 21	Internal
Geothermal Power Plan Process & Equipment Level I	90	25 Jan 21 - 30 Jul 21	Internal
Fundamental Maintenance Management	45	25 Feb 21 - 29 Mar 21	Internal
Basic Facility Engineering	45	6 May 21 - 1 Jul 21	Internal
Basic Stakeholder Management, Community Development & Security	45	5 Jul 21 - 5 Aug 21	Internal
Asset Management (AM)			
Earth Science Reservoir Surveillance	39	8 Jan 21 - 22 Jan 21	Internal
Engineering Principles in Geothermal	112	11 Jan 21 - 24 Mar 21	Internal
Well & Rsvoir Sveillance & Optmization 1	112	20 Jan 21 - 29 Mar 21	Internal
Basic Drilling & Completion	112	3 Feb 21 - 8 Mar 21	Internal
Finance			
Basic Financial Statement Analysis	62	14 Jan 21 - 8 Apr 21	Internal
Basic Corporate Finance	62	21 Jan 21 - 27 Jul 21	Internal
Business Communication Skill	17	12 Jan 21 - 26 Mar 21	Internal
Basic Business Strategy & Financial Performance	23	18 Jan 21 - 3 Mar 21	Internal
Project Management	68	5 Aug 21 - 27 Aug 21	Internal
Intoduction to Process Excellence Methodology	21	25 May 21 - 22 Jun 21	Internal
Renewable Energy Business Development and Merger & Acquisition	21	7 Jul 21 - 21 Jul 21	Internal
Basic Occupational Health Strategy & Planning (S&P)	22	13 Oct 21 - 14 Dec 21	Internal
Geothermal Power Plan Process & Equipment Level I	210	Jul-2021	Internal
Project Management	269	Aug-2021	Internal
Basic Talent Acquisition	66	Sep-2021	Internal
Introduction to Corporate Finance	522	Oct-Dec 2021	Internal
Vendor Relationship Management	115	Oct & Nov 2021	Internal
Supply Chain Management (SCM)			
Basic Value Creation	38	18 Feb 21 - 25 Feb 21	Internal
Basic Inventory Management	35	4 Mar 21 - 18 Mar 21	Internal
Vendor Relationship Management	38	14 Oct 21 - 4 Nov 21	Internal
Information & Technology (IT)			
Introduction to SAP	26	15-Feb-21	Internal
Leadership & Management Development Program			
INSEAD Emerging Leaders			
INSEAD Emerging Leaders - Module 4 Strategic Thinking (cohort 1)	46	26 - 30 Apr 21	INSEAD
INSEAD Emerging Leaders - Module 4 Strategic Thinking (cohort 2)	46	3 - 7 May 21	INSEAD
INSEAD Emerging Leaders Capstone	92	11-Jun-21	INSEAD
Women's Leadership Program			
Women in Leadership First Course	31	27 Oct 21 - 10 Nov 21	Cornell University
Women in Leadership Second course	31	24 Nov 21 - 8 Dec 21	Cornell University
Women in Leadership Third Course	9	8 Dec 21 - 22 Dec 21	Cornell University
Women in Leadership Fourth Course	4	22 Dec 21 - 5 Jan 22	Cornell University

KARYAWAN EMPLOYEES

Nama/Kategori Pelatihan Training Name/Programs	Jumlah Peserta Total Participants	Periode Pelaksanaan Implementation Period	Pelaksana Organizer
Mandatory Training			
Ahli K3 Kebakaran	1	30-Nov-21	SKM
Ahli K3 Kimia	2	11 Okt - 26 Okt 2021	Patrarijaya - Online
Ahli K3 Kimia - Resertifikasi	2	30-Nov-21	SKM
Ahli K3 Listrik - Resertifikasi	5	30-Nov-21	SKM
Ahli K3 Umum	2	02 Agu - 19 Agu 2021	Patrarijaya - Online
Ahli K3 Umum - Resertifikasi	2	Juli, Nov 2021	SKM, Patrarijaya
API 570	1	22 Nov - 02 Des 2021	Ladwer Insitute - Online
API 580	1	20 okt - 22 Okt 2021	Ladwer Insitute - Online
Asessor Kompetensi	1	08 Nov - 13 Nov 2021	LSP Energi Mandiri
Auditor Energi	1	21 Jun - 23 Jun 2021	KENSI / LSP HAKE - Online
Auditor Energi - Resertifikasi	1	08-Feb-21	KENSI / LSP HAKE - Online
Auditor SMK3	2	23 Agu - 27 Agu 2021	Patrarijaya - Online
Conference for WGC	3	Apr-21	WGC Conference - Online
Lead Auditor ISO 14001	1	06 Des - 10 Des 2021	BSI - Online
Manager Energi	1	21 Jun - 23 Jun 2021	KENSI / LSP HAKE - Online
Pelatihan Penanggung Jawab Pengendalian Pencemaran Air (PPPA)	2	23 Mar - 25 Mar 2021	Patrarijaya - Online
Pelatihan Penanggung Jawab Pengendalian Pencemaran Air (PPPA) - Resertifikasi	1	15 Sep - 16 Sep 2021	Patrarijaya - Online
Pelatihan Pengelolaan Limbah B3 (PLB3)	2	30 Mar - 01 Apr 2021	Patrarijaya - Online
Pelatihan Pengelolaan Limbah B3 (PLB3)	1	15 Sep - 16 Sep 2021	Patrarijaya - Online
Penanggung Jawab Operasional Instalasi Pengendalian Pencemaran Udara (POIPPU)	2	Mar, Mei 2021	Patrarijaya - Online
Penanggung Jawab Pengendalian Pencemaran Udara (PPPU)	2	30 Mar - 01 Apr 2021	Patrarijaya - Online
Penanggung Jawab Pengendalian Pencemaran Udara (PPPU)	1	15 Sep - 16 Sep 2021	Patrarijaya - Online
Pengawas Operasional Madya (POM)	3	Jan, Jul 2021	LSP Energi Mandiri - Online
Pengawas Operasional Pertama (POP)	15	Feb, Mar, Mei, Jun, Jul, Agu, Sep, Nov 2021	LSP Energi Mandiri, LSP GPPB - Online
Pengawas Operasional Utama (POU)	1	02-Nov-21	LSP Energi Mandiri - Online
Perlindungan Keanekaragaman Hayati	1	08 Jun - 09 Jun 2021	Patrarijaya - Online
Petugas Pengambil Sampel Air	4	26 Jul - 29 Jul 2021	Patrarijaya - Online
Petugas Proteksi Radiasi (PPR)	1	02 Agu - 23 Agu 2021	Bapetan
PMP - Resertifikasi	1	28-Feb-21	Project Management Institute - Online
Program Profesi Keinsinyuran (PII)	4	Agu 2021 - Jan 2022	Insmart - Online
ITC Level II - Resertifikasi	1	Des 2021	Smartgate - Online
Ahli K3 Muda Lingkungan Kerja	3	16 Sep - 17 Sep 2021	Adhya Pratama Mandiri - Online
Hygiene Industri Muda (HIMU)	1	30 Agu - 04 Sep 2021	Adhya Pratama Mandiri - Online
Kompetensi SKTTK - HAKIT	28	Nov, Okt 2021	Eleska HAKIT - Online
Perawatan Sumur (PES)	1	30 Okt - 02 Nov 2021	Adhikriya Kualita Utama
Perhitungan Keahlian Perhitungan Nilai Daur Hidup (LCA)	5	24-Sep-21	Insmart
Vibration Cat II	2	Des 2021	Tiara Vibrasindo - Online
Verifikasi dan Perhitungan TKDN	4	23 Feb - 24 Feb 2021	BMC - Online

PENGELOLAAN TALENT

Talent Management



TALENT RECRUITMENT

Untuk menjaring berbagai talenta baru yang bermanfaat bagi pengembangan bisnis, Perseroan menerapkan beberapa cara seperti Program Magang, untuk menjaring talenta di posisi junior, serta aktif menggunakan media sosial atau berbagai platform rekrutmen lainnya untuk menjaring talenta yang sudah berpengalaman. Khusus untuk posisi senior, Perseroan memberikan prioritas pada talenta yang ada di anak perusahaan untuk menempati posisi tersebut. Bila dibutuhkan, Perseroan akan bekerja sama dengan pihak ketiga untuk mendapatkan talenta dengan kualifikasi yang lebih spesifik yang tidak dapat dipenuhi dari dalam.

TALENT RECRUITMENT

To attract new talents that are beneficial for business development, the Company implements several methods such as Internship Program, to recruit talent in junior positions, and actively uses social media or various other recruitment platforms to acquire experienced talent. For senior positions, the Company prioritized talents from subsidiaries to fill these positions. When needed, the Company will cooperate with third parties to obtain talents with more specific qualifications that cannot be fulfilled from within.

PENILAIAN KINERJA DAN PENYESUAIAN KARIER

Melalui mekanisme penilaian kinerja, Perseroan mampu mengidentifikasi karyawan yang memiliki kinerja di atas rata-rata sekaligus menerapkan inisiatif untuk mengembangkan kemampuan mereka. Perseroan memberikan promosi kepada karyawan secara berkala dengan mempertimbangkan berbagai faktor, seperti tingkat pendidikan, peningkatan keahlian, potensi, dan kinerja yang optimal. Konseling diberikan kepada individu yang belum memenuhi harapan, untuk memotivasi perbaikan kinerja yang bersangkutan kedepannya.

PERFORMANCE APPRAISAL AND CAREER ADJUSTMENT

Through performance appraisal mechanism, the Company is able to identify employees with above average performance as well as implement initiatives to develop their abilities. The Company provides promotions to employees periodically by considering various factors, such as education level, skill improvement, potential, and optimal performance. Counseling is given to those who have not met expectations to motivate their improvement in the future.

TALENT RETENTION

Perseroan berupaya untuk menjaga, mempertahankan, dan mengembangkan keterampilan karyawan dengan melakukan studi banding terhadap praktik yang berlaku di pasar setiap tahunnya. Beberapa inisiatif juga diterapkan, seperti diilustrasikan di bawah ini.

TALENT RETENTION

The Company strives to maintain, retain, and develop employee skills by conducting annual comparative studies on the applicable practices in the market. Several initiatives were also implemented, as illustrated below.

✔ **Pendidikan dan pelatihan untuk mengembangkan kemampuan karyawan;**
Education and training to develop employee capabilities;

✔ **Apresiasi terhadap pencapaian karyawan dengan memberikan program pengembangan dan/atau penghargaan;**
Appreciation of employee achievements by providing development programs and/or awards;

✔ **Memberikan tanggung jawab lebih dan tantangan baru sesuai dengan kebutuhan Perseroan.**
Provide more responsibilities and new challenges in line with the needs of the Company.



KETENAGAKERJAAN

Employment



Perseroan berkomitmen untuk patuh terhadap peraturan ketenagakerjaan yang berlaku sebagai wujud tanggung jawab dan penghormatan pada hak asasi manusia, serta dalam rangka menciptakan hubungan industrial dan suasana kerja yang harmonis, nyaman, dan produktif.

Perseroan tidak memanfaatkan tenaga kerja anak dan tidak melakukan praktik kerja paksa dalam bentuk apa pun di seluruh unit usaha Grup Barito Pacific.

PROGRAM KEBERAGAMAN

Perseroan menjunjung tinggi kesetaraan dan keadilan dalam melaksanakan rekrutmen, pengembangan, pelatihan, dan remunerasi tanpa membedakan latar belakang, usia, jenis kelamin, suku, agama, afiliasi politik, maupun indikator keberagaman lain.

Rekrutmen berbasis keunggulan kami terapkan sebagai kriteria penilaian utama yang mengacu pada nilai dan budaya perusahaan, yaitu: dedikasi, integritas, kualitas, dan kompetensi tinggi dalam pelaksanaan tugas dan upaya menjadi warga korporat yang baik. Nilai-nilai tersebut harus dipenuhi oleh calon karyawan untuk memastikan kinerja yang sesuai dengan budaya dan tujuan Perseroan.

The Company is committed to complying with applicable labor regulations as a form of responsibility and respect for human rights, and to create industrial relations and a harmonious, comfortable, and productive work environment.

The Company prohibits the use of child labor and forced labor of any form in all business units of Barito Pacific Group.

DIVERSITY PROGRAM

The Company upholds equality and fairness in recruitment, development, training, and remuneration regardless of background, age, gender, ethnicity, religion, political affiliation, or other diversity indicators.

We apply excellence-based recruitment as the main assessment criteria that refers to the Company's values and culture, namely dedication, integrity, quality, and high competence in performing duties and efforts to become a good corporate citizen. These values must be met by prospective employees to ensure a performance that is in accordance with the Company's culture and goals.

INISIATIF UNTUK Mendukung Keberagaman

Perseroan meyakini bahwa keberagaman dapat memperkaya bekal Perseroan dalam menyongsong perkembangan dan persaingan usaha. Beberapa inisiatif yang diterapkan untuk mendukung keberagaman di Perseroan, yaitu: (1) melaksanakan pendidikan dan pelatihan, serta komunikasi terus menerus kepada seluruh karyawan mengenai pentingnya keberagaman, (2) rekrutmen kandidat dari berbagai latar belakang yang berbeda baik dari sisi pendidikan, suku, agama, atau ras, (3) menghargai hari libur semua umat beragama, (4) menerapkan pemberian kompensasi yang adil, dan (5) menciptakan lingkungan kerja dengan komposisi tenaga kerja lintas generasi.

TARGETED RECRUITMENT

Targeted recruitment yang dilaksanakan secara mandiri atau bekerja sama dengan pihak ketiga penyedia jasa perekrutan, diperuntukkan bagi calon karyawan yang memiliki kompetensi dan kualifikasi yang sesuai dengan kebutuhan serta nilai-nilai Perseroan. Pada akhir periode pelaporan, Grup Barito Pacific memiliki sumber daya manusia sebanyak 3.044 orang.

INITIATIVES TO PROMOTE DIVERSITY

The Company regards diversity as a mean to face business development and competition. Several initiatives to support diversity in the Company are: (1) conducting education and training, as well as continuous communication to all employees on the importance of diversity, (2) recruitment of candidates from various backgrounds in terms of education, ethnicity, religion, or race, (3) respecting all religious holidays, (4) providing fair compensation, and (5) creating a work environment with a cross-generational workforce.

TARGETED RECRUITMENT

Targeted recruitment, which is carried out independently or in collaboration with third-party recruitment service providers, is intended for prospective employees who have competencies and qualifications in accordance with the needs and values of the Company. At the end of the reporting period, Barito Pacific Group had 3,044 human resources.

KEBERAGAMAN DAN KESETARAAN PERUSAHAAN ENERGI DIVERSITY AND EQUALITY IN ENERGY BUSINESS

Star Energy Geothermal (SEG) berkomitmen untuk membantu dan menguatkan karier pekerja profesional dan pemimpin wanita di SEG dengan memberikan pelatihan strategi dan teknik yang diperlukan untuk para pekerja wanita menuju jenjang kepemimpinan yang lebih tinggi di perusahaan.

SEG bekerja sama dengan universitas Ivy League asal Amerika Serikat, Cornell University meluncurkan *Woman's Leadership Program*. Program pendidikan ini dilakukan secara virtual oleh Universitas Cornell, bekerja sama dengan Genashtim Innovative Learning. Setelah menyelesaikan program para peserta akan mendapatkan sertifikat *Women and Leadership* program dari Cornell University.

Star Energy Geothermal (SEG) is committed to assisting and strengthening the careers of female professionals and leaders at SEG by providing the necessary strategic and technical training for female employees towards higher leadership levels in the Company.

SEG in collaboration with an Ivy League university from the United States, Cornell University, have launched the *Woman's Leadership Program*. This educational program is conducted virtually by Cornell University, in collaboration with Genashtim Innovative Learning. After completing the program, participants will receive a *Women and Leadership* program certificate from Cornell University.

PELATIHAN DAN PEMBINAAN DALAM KEBERAGAMAN

Perseroan konsisten dalam mengkomunikasikan pemahaman mengenai pentingnya keberagaman di tempat kerja, misalnya pada saat proses rekrutmen, Perseroan mengingatkan para Manajer Lini akan pentingnya keberagaman dalam anggota tim mereka. Selain itu, pada saat orientasi karyawan baru, Perseroan menyampaikan bagaimana mereka dapat terlibat dalam menjaga keberagaman.

MENTORSHIP PROGRAM

Perseroan memberikan program bimbingan bagi karyawan baru sesuai dengan kebutuhan sebagai bentuk pengembangan karier. Program bimbingan disiapkan secara internal maupun menggunakan jasa dari pihak ketiga yang ditunjuk oleh Perseroan.

KETAATAN PADA ATURAN KETENAGAKERJAAN

Perseroan melaksanakan seluruh ketentuan ketenagakerjaan sesuai peraturan yang berlaku, yang kami realisasikan dalam dokumen peraturan perusahaan, perjanjian kerja bersama (PKB), dan Kode Etik Perusahaan. Poin-poin tersebut meliputi:

- ▶ Kebebasan berserikat: Perseroan memberikan kebebasan kepada karyawan untuk membentuk serikat pekerja, dan bergabung dengan serikat pekerja yang ada di lingkungan Perseroan;
- ▶ Jam kerja, aturan lembur, dan aturan cuti sesuai peraturan yang berlaku;
- ▶ Mekanisme penyelesaian masalah ketenagakerjaan: disampaikan langsung kepada atasan masing-masing. Apabila tidak ditemukan solusi, Departemen HR atau serikat pekerja akan memfasilitasi program mediasi sesuai dengan Peraturan Perusahaan dan ketentuan dalam peraturan ketenagakerjaan;
- ▶ Remunerasi: didasarkan pada kinerja yang adil, transparan dan dapat dipertanggungjawabkan sesuai dengan ketentuan pengupahan dalam peraturan ketenagakerjaan;
- ▶ Pemberian imbal jasa kepada karyawan berdasarkan tingkat SGL (*salary grade level*) yang mencerminkan keseimbangan antara jenjang posisi, tugas dan tanggung jawab setiap individu.

TRAINING AND MENTORING IN DIVERSITY

The Company consistently communicates the importance of diversity in the workplace. As an example, during the recruitment process, the Company reminds Line Managers of the importance of diversity in their team members. In addition, during new employee orientation, the Company informs them on how to be involved in maintaining diversity.

MENTORSHIP PROGRAM

The Company provides a mentorship program for new employees according to their needs as a form of career development. The mentorship program is prepared internally or using the services of a third party appointed by the Company.

COMPLIANCE WITH LABOR REGULATIONS

The Company implements all employment provisions in accordance with applicable regulations, which are embodied in the Company's regulatory documents, collective labor agreements (CLA), and the Company's Code of Conduct. These points include:

- ▶ Freedom of association: The Company gives the freedom to employees to form labor unions, and join labor unions within the Company;
- ▶ Working hours, overtime, and leave of absence guidelines according to applicable regulations;
- ▶ Employment problem solving mechanism: to be submitted directly to their respective superiors. If no solution is found, the HR Department or the labor union will facilitate a mediation program in accordance with the Company Regulations and the provisions in labor regulations;
- ▶ Remuneration: based on fair, transparent and accountable performance in accordance with the wage provisions in labor regulations;
- ▶ Providing remuneration to employees based on SGL (*salary grade level*) which reflects balance between level of positions, duties, and responsibilities of each individual.

**PERBANDINGAN RATA-RATA UPAH KARYAWAN BARU TINGKAT TERENDAH
VS UPAH MINIMUM PROVINSI (BARITO SAJA)**
COMPARISON OF LOWEST LEVEL NEW EMPLOYEE WAGE
VS PROVINCIAL MINIMUM WAGE (BARITO ONLY)

Laki-Laki
Male

108.7%

Perempuan
Female

108.7%



*) UMR DKI Jakarta 2021: Rp4.416.186
Provincial minimum wage of DKI Jakarta
in 2021: IDR4,416,186

MEDIA UMPAN BALIK KARYAWAN

Perseroan memberikan kesempatan kepada karyawan untuk dapat memberikan umpan balik dengan cara yang baik dan benar. Seluruh perusahaan di Grup Barito Pacific telah memiliki sistem umpan balik karyawan baik untuk menerima masukan maupun keluhan mengenai ketenagakerjaan.

HUMAN CAPITAL RISK ASSESSMENT

Human Capital Risk Assessment (HCRA) merupakan pelaporan terhadap risiko yang timbul dalam mengelola tenaga kerja. Perseroan mengawali proses ini dengan melakukan penetapan risiko oleh divisi SDM bekerja sama dengan unit kerja Manajemen Risiko dan melibatkan setiap unit kerja. Langkah mitigasi yang tepat kemudian disusun untuk seluruh risiko yang ditetapkan.

Perseroan melakukan pemantauan dan pelaporan beserta langkah mitigasi secara berkala setiap kuartal. Risiko dan mitigasi tersebut diperbarui secara teratur dengan memperhatikan kondisi Perseroan dan dinamika bisnis.

EMPLOYEE FEEDBACK MEDIA

The Company provides opportunities for employees to provide feedback in a proper manner. All companies in the Barito Pacific Group have an employee feedback system to receive inputs and complaints regarding employment.

HUMAN CAPITAL RISK ASSESSMENT

Human Capital Risk Assessment (HCRA) is a report on risks in managing the workforce. The Company begins this process by determining risks by the HR division in collaboration with the Risk Management unit and involving each work unit. Appropriate mitigation measures are then drawn up for all determined risks.

The Company periodically conducts monitoring and reporting along with mitigation measures in every quarter. These risks and mitigations are updated regularly by considering the Company's conditions and business dynamics.

KEBIJAKAN DALAM MENGHADAPI PANDEMI COVID-19

Policies During Covid-19 Pandemic

Selama 2021, Perseroan tetap berpartisipasi penuh mendukung kebijakan pemerintah untuk mencegah penyebaran pandemi COVID-19. Perseroan senantiasa mengikuti regulasi pemerintah mengenai sejumlah protokol kesehatan dan pembatasan mobilisasi, termasuk regulasi untuk bekerja secara *offline*. Perseroan masih menjalankan sejumlah kebijakan sebagai berikut:

1. Mengikuti ketentuan pemerintah dalam melaksanakan protokol kesehatan COVID-19;
2. Menghimbau karyawan untuk bekerja dari rumah dan menyediakan sarana dan prasarana yang dibutuhkan seperti aplikasi berbasis teknologi dan *call center*;
3. Mengurangi kapasitas jumlah karyawan yang bekerja di kantor;
4. Melaksanakan penyuluhan dan terus mengingatkan karyawan untuk memperhatikan protokol COVID-19;
5. Mengadakan tes antigen secara rutin kepada karyawan.

Throughout 2021, the Company fully supported the government policies in minimizing the spread of COVID-19 pandemic. The Company remains compliant with the government regulation regarding a number of health protocols and mobility restrictions, including regulation to work offline. The Company maintains to carry out these following policies:

1. Following the government policies in dealing with COVID-19 protocols;
2. Encouraging employees to work from home and provides the necessary facilities needed such as technology-based applications and call center;
3. Reducing capacity of employees who work in the office;
4. Providing socialization and continuously reminded its employees to always observe COVID-19 protocols;
5. Conducting routine antigen test for all employees.



KESEHATAN DAN KESELAMATAN KERJA

Occupational Health and Safety

Bisnis yang dijalankan anak usaha memiliki risiko tinggi kepada karyawan, aset, serta lingkungan dan masyarakat, sehingga Kesehatan dan Keselamatan Kerja (K3) merupakan aspek penting yang sangat memengaruhi keberlangsungan usaha. Perseroan berkomitmen untuk mencapai target 'tanpa insiden kecelakaan' dengan menerapkan sistem manajemen K3 yang komprehensif untuk menciptakan lingkungan kerja yang sehat dan aman.

KEBIJAKAN K3 PERSEROAN:

1. Menghilangkan bahaya K3 untuk mencegah terjadinya kecelakaan kerja dan penyakit akibat kerja, kerusakan, dan dampak lingkungan pada setiap kegiatan operasi terhadap karyawan, kontraktor, masyarakat, dan lingkungan demi memastikan keberlanjutan bisnis;
2. Menyediakan lingkungan kerja yang aman dan sehat;
3. Menjalankan sistem identifikasi bahaya dan kontrol risiko di tempat kerja;
4. Mematuhi peraturan dan persyaratan terkait serta praktik-praktik terbaik K3 yang relevan, termasuk penerapan *Process Safety Management* di pabrik petrokimia dan *Integrated Geothermal Operations Management* di operasi panas bumi;
5. Melakukan investigasi dan mengidentifikasi penyebab utama insiden untuk mencegah terulangnya kembali serta berbagi pelajaran di lingkup perseroan;
6. Membangun dan mengembangkan kapasitas karyawan dan kontraktor dan semua yang berkepentingan atas kinerja, ekspektasi, dan standar-standar K3L;
7. Melakukan peningkatan kinerja berkelanjutan terhadap Sistem Manajemen K3 (SMK3).

Businesses run by subsidiaries carry a high risk to employees, assets, as well as the environment and society. This makes Occupational Health and Safety (OHS) as an important aspect that greatly affects business continuity. The Company is committed to achieving the 'zero accident' target by implementing a comprehensive OHS management system to create a healthy and safe work environment.

THE COMPANY'S OHS POLICY:

1. Eliminating OHS hazards to prevent work accidents and occupational illness, damage, and environmental impacts in every operational activity on employees, contractors, communities, and the environment to ensure business sustainability;
2. Providing safe and healthy work environment;
3. Implementing a hazard identification and risk control system in the workplace;
4. Complying with relevant regulations and requirements as well as relevant OHS best practices, including the implementation of Process Safety Management in petrochemical plants and Integrated Geothermal Operations Management in geothermal operations;
5. Investigating and identifying the main causes of incidents to prevent recurrence and share lessons-learned within the Company;
6. Building and developing the capacity of employees, contractors and all related parties in SHE performance, expectations and standards;
7. Carrying out continuous performance improvement on Occupational Health and Safety Management System (OHSMS).

SISTEM MANAJEMEN KESEHATAN DAN KESELAMATAN KERJA

Perseroan menerapkan Sistem Manajemen K3 (SMK3) berdasarkan PP 50/2012 dan standar internasional ISO 45001 tentang Sistem Manajemen K3, yang diperiksa melalui audit sertifikasi setiap tahun oleh *registrar* dan auditor yang ditunjuk Kementerian Tenaga Kerja dan Transmigrasi. Pada tahun 2021, audit standar internasional di unit usaha telah dilaksanakan dengan hasil memenuhi persyaratan untuk sertifikasi.

BISNIS PETROKIMIA

Selain menerapkan K3 berdasarkan regulasi yang berlaku dan standar internasional, Chandra Asri menerapkan *Responsible Care*[®] yang merupakan standar global untuk industri kimia dalam pengelolaan bahan kimia yang aman di tempat kerja, yang mencakup:

- ▶ Kepatuhan pada *Responsible Guiding Principles*;
- ▶ Penerapan *Responsible Care Product Safety Code*, *Process Safety Code*, dan *Security Code*;
- ▶ Mengukur dan melaporkan kinerja menggunakan *Responsible Care Performance Measures*;
- ▶ Menerapkan *Responsible Care Management System* modern untuk mencapai hasil.

Implementasi *Responsible Care*[®] diperiksa melalui *self-assessment* dan audit verifikasi oleh Responsible Care Indonesia setiap dua tahun. Hasil verifikasi terakhir untuk *product stewardship* pada Oktober 2021, Chandra Asri memperoleh nilai 98,9% untuk Site Office Ciwandan, dan 98,4% untuk Site Office Pulo Ampel.

BISNIS ENERGI

Unit-unit usaha Star Energy Geothermal menerapkan Sistem Manajemen Operasi Panas Bumi Terintegrasi (*Integrated Geothermal Operations Management System/IGOMS*), yang meliputi program perlindungan lingkungan hidup dengan meminimalkan dampak terhadap perubahan iklim, memilih bahan-bahan yang ramah lingkungan, menjalankan konservasi sumber daya alam, pelestarian keanekaragaman hayati, dan membina komunikasi serta kerja sama yang baik dengan masyarakat di sekitar wilayah operasi.

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

The Company implements an OHS Management System (OHSMS) based on PP 50/2012 and ISO 45001 international standard on OHS Management System, which is inspected through a certification audit every year by the registrar and auditor appointed by the Ministry of Manpower and Transmigration. In 2021, an international standard audit in business units has been carried out with the results of meeting the requirements for certification.

PETROCHEMICAL BUSINESS

In addition to implementing OHS based on applicable regulations and international standards, Chandra Asri applies the *Responsible Care*[®] which is a global standard for the chemical industry in the safe management of chemicals in the workplace, which includes:

- ▶ Compliance with *Responsible Guiding Principles*;
- ▶ Implementation of *Responsible Care Product Safety Code*, *Process Safety Code*, and *Security Code*;
- ▶ Measure and report performance using the *Responsible Care Performance Measures*;

- ▶ Implement a modern *Responsible Care Management System* to achieve results.

Responsible Care[®] implementation is evaluated through a self-assessment and verification audit by Responsible Care Indonesia every two years. In the latest verification result in October 2021, Chandra Asri received a score of 98.9% for Ciwandan Site Office, and 98.4% for Pulo Ampel Site Office.

ENERGY BUSINESS

The Star Energy Geothermal business units implement the *Integrated Geothermal Operations Management System (IGOMS)*, which includes environmental protection programs by minimizing the impact on climate change, selecting environmentally friendly materials, carrying out natural resources and biodiversity conservations, and fostering good communication and cooperation with the community surrounding the area of operations.

STANDAR SISTEM MANAJEMEN K3
OHS MANAGEMENT SYSTEM STANDARD

Bisnis Business	Standar Standard	Registrar Registrar	Masa berlaku Validity period
Petrokimia Petrochemical			
Site Office Pulo Ampel Pulo Ampel Site Office	ISO 45001	Lloyd's Register Quality Assurance Limited (LRQA)	23 Desember 2022 December 23, 2022
	SMK3	PT Sucofindo Indonesia	2024
Site Office Ciwandan Ciwandan Site Office	ISO 45001	Lloyd's Register Quality Assurance Limited (LRQA)	23 Desember 2022 December 23, 2022
	SMK3	PT Sucofindo Indonesia	2024
Energi Energy			
SEGWWL	ISO 45001:2018	Lloyd's Register Quality Assurance Limited (LRQA)	28 Januari 2022 January 28, 2022
	SMK3	PT Sucofindo Indonesia	2022
SEGD II	ISO 45001:2018	SGS	19 Agustus 2022 August 19, 2022
	SMK3	PT Sucofindo Indonesia	2024
SEGS	ISO 45001:2018	SGS	24 Juli 2022 July 24, 2022
	SMK3	PT Sucofindo Indonesia	2024

STANDAR INTERNASIONAL SISTEM MANAJEMEN KESELAMATAN KIMIA
CHEMICAL SAFETY MANAGEMENT SYSTEM INTERNATIONAL STANDARD

Bisnis Business	Standar Standard	Registrar Registrar	Masa berlaku Validity period
Petrokimia Petrochemical			
Chandra Asri	RCI Verification	Responsible Care Indonesia	Oktober 2023 October 2023
	International Code for Security of Ships and Port Facilities (ISPS Code)	Direktorat Jenderal Perhubungan Laut, Kementerian Perhubungan Republik Indonesia Directorate General of Sea Transportation, Ministry of Transportation of the Republic of Indonesia	26 Agustus 2024 August 26, 2024





ORGANISASI K3

Perseroan memiliki Komite K3 atau Panitia Kesehatan dan Keselamatan Kerja (P2K3) yang diketuai oleh manajemen puncak unit, dengan tugas memastikan penerapan SMK3 secara konsisten dalam kegiatan usaha. Komite K3 bertanggung jawab untuk menetapkan strategi dan program K3, sedangkan setiap departemen dan unit kerja bertanggung jawab untuk menerapkan dan melaporkan pencapaiannya kepada manajemen. Kinerja K3 menjadi *Key Performance Indicator* tim manajemen di masing-masing unit operasional.

OHS ORGANIZATION

The Company has established an Occupational Health and Safety Committee which is chaired by the unit's top management, tasked with ensuring the consistent implementation of OHSMS in business activities. The OHS Committee is responsible for determining the OHS strategy and program, while each department and work unit is responsible for implementing and reporting their achievements to management. OHS performance becomes the Key Performance Indicator for the management team in each operational unit.

PROGRAM KESELAMATAN

Program keselamatan kerja di setiap unit usaha dilaksanakan sesuai dengan jenis bahaya dan risiko di tempat kerja, misalnya:

- ▶ Penetapan kebijakan K3 di masing-masing instalasi dan pembentukan organisasi K3;
- ▶ Identifikasi bahaya, penilaian dan kontrol risiko dengan metode *risk assessment* dan *job safety analysis*;
- ▶ Pengelolaan dan kepatuhan alat pelindung diri, rambu, dan standar keselamatan;
- ▶ Penerapan *Behavior Based Safety* yang disesuaikan dengan kebutuhan masing-masing unit operasional;
- ▶ Pelaporan dan investigasi kecelakaan;
- ▶ Pelaksanaan prosedur program kepatuhan pada peraturan K3 yang berlaku termasuk perizinan dan sertifikasi keselamatan;
- ▶ Evaluasi penerapan SMK3, program *improvement*, dan pelaporannya;
- ▶ Mendorong penerapan SMK3 kepada kontraktor dan *vendor* yang bekerja di lingkungan Perseroan;
- ▶ Pelatihan dan uji coba keadaan tanggap darurat di tempat kerja termasuk pelatihan tanggap darurat di sekitar wilayah operasi yang melibatkan masyarakat.

PROGRAM KESEHATAN

Perseroan melakukan kegiatan promosi kesehatan yang bersifat yang bersifat pencegahan, promotif, kuratif, dan rehabilitatif secara rutin, termasuk kegiatan promosi kesehatan yang merupakan Program Kementerian Kesehatan seperti pencegahan HIV/AIDS, kampanye anti merokok, penyalahgunaan obat-obatan terlarang, dan sebagainya.

Layanan kesehatan yang diberikan Perseroan kepada karyawan mencakup:

- ▶ Pemeriksaan kesehatan bagi setiap calon karyawan, dan pemeriksaan kesehatan berkala untuk karyawan dengan jenis dan jenjang jabatan tertentu;
- ▶ Klinik dan dokter perusahaan di setiap lokasi kerja untuk menangani keluhan kesehatan dari karyawan;
- ▶ Program BPJS Ketenagakerjaan dan BPJS Kesehatan sebagai bentuk perlindungan pada karyawan.

SAFETY PROGRAM

Work safety programs in each business unit are implemented according to the types of hazards and risks in the workplace, such as:

- ▶ OHS policy setting in each installation and the establishment of OHS organization;
- ▶ Hazard identification, risk assessment and control using risk assessment methods and job safety analysis;
- ▶ Management and compliance of personal protective equipment, signs, and safety standards;
- ▶ Implementation of Behavior Based Safety tailored to the needs of each operational unit;
- ▶ Accident reporting and investigation;
- ▶ Implementation of compliance program procedures with applicable OHS regulations including permit and safety certification;
- ▶ OHSMS evaluation, improvement programs, and reporting;
- ▶ Encouraging the implementation of OHSMS for contractors and vendors working within the Company;
- ▶ Emergency response training and testing in the workplace including emergency response training around the operational area involving the community.

HEALTH PROGRAM

The Company carries out preventive, promotive, curative, and rehabilitative health promotion routine activities, including health promotion activities under the Ministry of Health Program such as HIV/AIDS prevention, anti-smoking campaigns, drug abuse, and others.

Health services provided by the Company to employees include:

- ▶ Medical examination for each prospective employee, and periodic medical examination for employees with certain types and levels of position;
- ▶ Company clinics and doctors at each work location to handle health complaints from employees;
- ▶ BPJS Employment and BPJS Health programs as a form of employee protection.

Program kegiatan kesehatan kerja sepanjang 2021 diprioritaskan pada pencegahan dan penanganan pandemi COVID-19 di tempat kerja.

KESELAMATAN KONTRAKTOR

Perseroan menerapkan Sistem Manajemen Keselamatan Kesehatan dan Lingkungan Kontraktor (*Contractor Safety Health & Environment Management System/CSMS*) untuk memastikan kontraktor yang bekerja untuk Perseroan telah memenuhi persyaratan K3 diatur dalam peraturan perundangan yang berlaku maupun persyaratan K3 yang ditetapkan Perseroan. Hal-hal yang tercakup dalam CSMS Perseroan meliputi penilaian aspek-aspek K3L pada pemasok barang dan jasa pada proses penawaran (*pre-assessment questionnaire*), evaluasi kinerja K3L pada saat pelaksanaan pekerjaan dengan cara audit, dan kegiatan pembinaan pengembangan K3L melalui pelatihan bagi kontraktor yang nilainya di bawah standar.

KESELAMATAN PROSES

Pabrik petrokimia memiliki risiko inheren berupa keselamatan proses di pabrik yang dapat menyebabkan dampak signifikan bagi manusia dan aset. Chandra Asri telah menerapkan *Process Safety Management (PSM)* untuk melindungi manusia, aset, dan lingkungan dari terjadinya kebocoran bahan kimia berbahaya di tempat kerja.

Throughout 2021, the occupational health programs is prioritized on the prevention and handling of COVID-19 in the workplace.

CONTRACTOR SAFETY

The Company implements a Contractor Safety Health & Environment Management System (CSMS) to ensure that contractors working for the Company have complied with the OHS requirements in the applicable laws and regulations as well as the OHS requirements set by the Company. Matters covered in the Company's CSMS include assessment of SHE aspects of suppliers of goods and services in the bidding process (*pre-assessment questionnaire*), evaluation of SHE performance during work implementation by audits, and SHE development activities through training for contractors with scores that are below standard.

PROCESS SAFETY

Petrochemical plants have an inherent risk of process safety that can have significant impacts on people and assets. Chandra Asri has implemented Process Safety Management (PSM) to protect people, assets, and the environment from leakage of hazardous chemicals in the workplace.



KARYAWAN EMPLOYEES



Chandra Asri membentuk *PSM Element Task Force team* dan *PSM Element Governance Committee* yang bertanggung jawab kepada Departemen Komite SHE & PSM. Saat ini Chandra Asri sedang menyelesaikan tahapan-tahapan penyempurnaan PSM untuk disesuaikan dengan rencana jangka panjang PSM 2018-2023.

Chandra Asri has formed the PSM Element Task Force team and the PSM Element Governance Committee which are responsible to the SHE & PSM Committee Department. Chandra Asri is currently in the stages of improving the PSM to be adjusted to the 2018-2023 PSM long-term plan.

STATISTIK INSIDEN ^[403-2]

INCIDENT STATISTICS

DESKRIPSI Description		2021	2020	2019
Petrokimia Petrochemicals				
Incident rate		0	0.24	0.199
Energi Energy				
Incident Rate	SEGD II	00.0	00.0	0.00
	SEGS	00.0	00.0	0.00
	SEGWWL	1.41	00.0	0.61
Frequency Rate	SEGD II	00.0	00.0	0.00
	SEGS	00.0	00.0	0.00
	SEGWWL	1.41	00.0	0.61

*per sejuta jam kerja
per million manhours



LINGKUNGAN

Environment

Keseimbangan operasional usaha dengan tanggung jawab lingkungan dan sosial merupakan DNA Perseroan yang terus dipertahankan. Seluruh kegiatan usaha Perseroan mendukung pelestarian lingkungan dan pemberdayaan sosial kemasyarakatan dengan menerapkan teknologi-teknologi terbaru yang lebih ramah lingkungan.

Kebijakan lingkungan Grup Barito Pacific adalah:

- ▶ Memastikan kepatuhan atas peraturan lingkungan yang relevan;
- ▶ Mencegah pencemaran dan dampak negatif lingkungan; dan
- ▶ Mendorong upaya-upaya *beyond compliance* dengan tujuan meningkatkan kinerja lingkungan, memberikan manfaat finansial, serta memberikan manfaat bagi lingkungan dan masyarakat sekitar.

The balance between business operations with environmental and social responsibilities is the Company's DNA that is continuously maintained. All the Company's business activities support environmental conservation and community empowerment by applying the latest technologies that are more environmentally friendly.

Barito Pacific Group's environmental policies are:

- ▶ Ensuring compliance with relevant environmental regulations;
- ▶ Preventing pollution and negative impacts on the environment; and
- ▶ Encouraging beyond compliance efforts aimed to improve environmental performance, provide financial benefits, as well as to provide benefits to the environment and the surrounding community.



PENERAPAN SISTEM MANAJEMEN LINGKUNGAN

Implementation of Environmental Management System

Perseroan menerapkan Sistem Manajemen Lingkungan (SML) berbasis standar ISO 14001 yang tersertifikasi di masing-masing unit usaha. SML mencakup (1) Kebijakan Lingkungan, (2) Perencanaan: identifikasi aspek dan dampak penting lingkungan berbasis risiko, kepatuhan dan pelaksanaan *continual improvement*, (3) Penerapan, (4) Implementasi dan Operasi, (5) Pemeriksaan dan Tindakan Perbaikan, serta (6) Tinjauan Manajemen. Untuk menjamin keefektifan pelaksanaan SML, setiap unit usaha memiliki Departemen EHS (*Environmental, Health, and Safety*) yang bertanggung jawab kepada manajemen senior di masing-masing unit.

The Company implements an Environmental Management System (EMS) based on ISO 14001 standard which is certified in each business unit. The EMS includes (1) Environmental Policy, (2) Planning: identification of significant risk-based environmental aspects and impacts, compliance, and continual improvement, (3) Realization, (4) Implementation and Operation, (5) Inspection and Corrective Action, and (6) Management Review. To ensure the effectiveness of EMS implementation, each business unit has an EHS (*Environmental, Health, and Safety*) Department which is responsible to the senior management in each unit.



Selain menerapkan SML, beberapa unit usaha juga mengimplementasikan standar ISO 50001 untuk pengelolaan energi. *Integrated Geothermal Operations Management System (IGOMS)* diterapkan di unit usaha energi yang di dalamnya termasuk persyaratan pengelolaan aspek lingkungan.

Seluruh unit usaha Perseroan telah menerapkan Analisis Daur Hidup yang mencakup *cradle-to-grave* untuk mengidentifikasi peluang-peluang untuk meningkatkan kinerja lingkungan, termasuk energi dan rumah kaca yang menjadi fokus Perseroan dalam pengelolaan dampak lingkungan.

In addition to implementing EMS, several business units have also implemented the ISO 50001 standard for energy management. Integrated Geothermal Operations Management System (IGOMS) is implemented in the energy business unit which includes requirements for managing environmental aspects.

All the Company's business units have implemented a Life Cycle Analysis which includes cradle-to-grave to identify opportunities to improve environmental performance, including energy and greenhouse gases, which are the Company's focus in environmental impact management.

STANDAR INTERNASIONAL SISTEM MANAJEMEN LINGKUNGAN ISO 14001

ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM INTERNATIONAL STANDARD

BISNIS BUSINESS	REGISTRAR	MASA BERLAKU VALIDITY PERIOD
Petrokimia/Petrochemicals		
- Site Office Ciwandan	Lloyd's Register Quality Assurance Limited (LRQA)	3 Februari 2023 February 3, 2023
- Site Office Pulo Ampel	Lloyd's Register Quality Assurance Limited (LRQA)	3 Februari 2023 February 3, 2023
Energi/Energy		
- SEGWWL	Lloyd's Register Quality Assurance Limited (LRQA)	28 Januari 2022 January 28, 2022
- SEGD II	PT SGS Indonesia	22 Juli 2022 July 22, 2022
- SEGS	PT SGS Indonesia	24 Juli 2022 July 24, 2022

STANDAR INTERNASIONAL SISTEM MANAJEMEN ENERGI ISO 50001

ISO 50001 ENERGY MANAGEMENT SYSTEM INTERNATIONAL STANDARD

BISNIS BUSINESS	REGISTRAR	MASA BERLAKU VALIDITY PERIOD
Petrokimia/Petrochemicals		
- Site Office Pulo Ampel	Lloyd's Register Quality Assurance Limited (LRQA)	12 Desember 2023 December 12, 2023
- Site Office Ciwandan	Lloyd's Register Quality Assurance Limited (LRQA)	12 Desember 2023 December 12, 2023
Energi/Energy		
- SEGWWL	Lloyd's Register Quality Assurance Limited (LRQA)	28 Januari 2022 January 28, 2022

ENERGI DAN GAS RUMAH KACA

Energy and Greenhouse Gases

Emisi Gas Rumah Kaca (GRK) merupakan salah satu faktor pemicu perubahan iklim global yang harus ditangani dengan partisipasi banyak pihak. Sebagai pelaku industri, Perseroan dan anak perusahaan menerapkan mitigasi dan adaptasi perubahan iklim melalui penyediaan energi terbarukan, investasi teknologi bersih, dan efisiensi untuk mengurangi pemakaian energi dan emisi GRK.

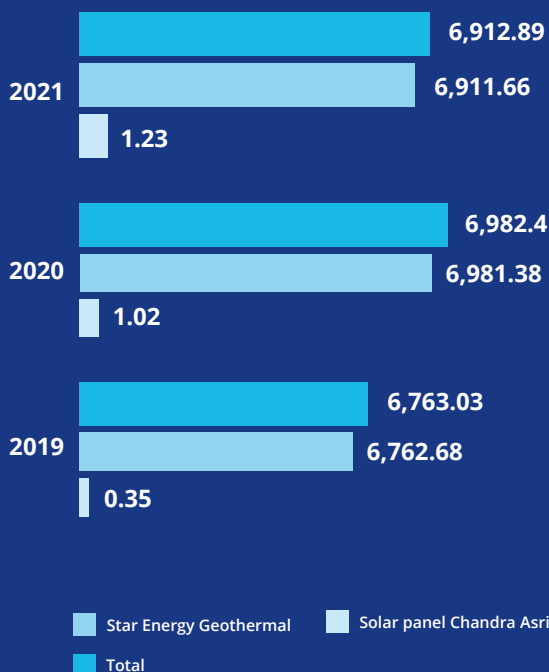
Greenhouse Gas (GHG) emissions are one of the triggering factors for global climate change that must be addressed with the participation of many parties. As industry players, the Company and its subsidiaries implement climate change mitigation and adaptation through the provision of renewable energy, investment in clean technology, and efficiency to reduce energy use and GHG emissions.



KONTRIBUSI KAMI KEPADA SDGs OUR CONTRIBUTION TO SDGs



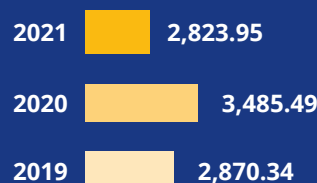
PRODUKSI ENERGI BERSIH (GWh) CLEAN ENERGY PRODUCTION (GWh)



PEMAKAIAN ENERGI (GWh) ENERGY USE (GWh)



EMISI GRK (RIBU TON CO₂e) GHG EMISSION (THOUSAND-TON CO₂e)



* Faktor Emisi Listrik Jamali = 56,15 kg CO₂e / GJ
Jamali Electricity Emission Factor = 56.15 kg CO₂e / GJ
** Faktor Emisi Bahan Bakar = 250,83 ton CO₂e / GJ
Fuel Emission Factor = 250.83 tons CO₂e / GJ

KONSUMSI ENERGI (GJOULE) [302-2]
ENERGY CONSUMPTION (GJOULE)

BISNIS BUSINESS	2021	2020	2019
Petrokimia Petrochemical	36,902,312	36,246,183	31,894,265
Energi Energy	1,305,835	1,270,738	1,276,904
Properti dan Hotel Property and Hotel	11,223	19,756.31	23,905.30
Total Total	38,219,370	37,536,677	33,195,074

EMISI GAS RUMAH KACA TOTAL (TON CO₂e) [305-1, 305-2]
TOTAL OF GREENHOUSE GAS EMISSION (TON CO₂e)

BISNIS BUSINESS	2021	2020	2019
Petrokimia Petrochemical	2,428,905	2,396,277	2,121,754.00
Energi Energy	391,426	542,244.96	371,433.14
Properti dan Hotel Property and Hotel	3,616	4,730.54	5,723.99
Total Total	2,823,947	3,485,497.46	2,870,344.27

Catatan/Note:

- ▶ Bisnis Petrokimia meliputi kegiatan Chandra Asri Site Office Ciwandan dan Pulo Ampel
Petrochemical business includes the activities of Chandra Asri Site Office Ciwandan and Pulo Ampel
- ▶ Bisnis Energi meliputi kegiatan Star Energy Geothermal di WKP Wayang Windu (SEGWLL), Darajat-II (SEGD II), dan Salak (SEGS)
Energy business includes Star Energy Geothermal's activities in WKP Wayang Windu (SEGWLL), Darajat-II (SEGD II), and Salak (SEGS)
- ▶ Bisnis Properti meliputi kegiatan Griya Idola, Griya Idola Industrial Park, dan Hotel Mambruk
Property Business includes activities of Griya Idola, Griya Idola Industrial Park, and Mambruk Hotel

BISNIS PETROKIMIA

Chandra Asri menerapkan Sistem Manajemen Energi berbasis ISO 50001:2018 serta menerapkan berbagai inisiatif teknologi rendah karbon termasuk penggunaan energi terbarukan, penggunaan peralatan rendah energi, dan penerapan teknologi untuk mengurangi maupun mencegah pencemaran.

Sejak 2019, Chandra Asri telah menggunakan panel surya di Site Office Ciwandan untuk memasok listrik perkantoran, dan mampu menghemat pemakaian listrik PLN sebesar 1.017,8 MWh yang setara dengan 3.664,4 GJ. Pemakaian energi terbarukan juga diterapkan di Site Office Pulo Ampel yang dipergunakan untuk penerangan di gudang batu bara.

Sebagai upaya untuk menekan polusi dan kebisingan, Chandra Asri telah mengoperasikan *Enclosed Ground Flare* (EGF) di kompleks petrokimia Banten, yang merupakan teknologi suar bakar tanpa asap yang mampu membakar hidrokarbon melalui proses pembakaran tertutup sebanyak 220 ton per jam, tanpa melepaskan hidrokarbon ke udara.

Inisiatif Chandra Asri untuk meningkatkan efisiensi energi dan mengurangi emisi GRK antara lain dengan rekayasa pada sub proses *Charge Gas Compressor* (CGC) dan tanur di Ethylene Plant dengan pengaturan parameter proses dan modifikasi pada pabrik Styrene Monomer, seluruh inisiatif ini berhasil mengurangi pemakaian energi dan uap sehingga diperoleh penurunan konsumsi energi.

PETROCHEMICAL BUSINESS

Chandra Asri implements an Energy Management System based on ISO 50001:2018 and various low-carbon technology initiatives including the use of renewable energy, the use of low-energy equipment, and the application of technology to reduce or prevent pollution.

Since 2019, Chandra Asri has used solar panels at Ciwandan Site Office to supply office electricity and was able to save PLN electricity consumption of 1,017.8 MWh which is equivalent to 3,664.4 GJ. Renewable energy use is also applied at Pulo Ampel Site Office for lighting in the coal warehouse.

To reduce pollution and noise, Chandra Asri has operated the Enclosed Ground Flare (EGF) at Banten petrochemical complex, which is a smokeless flare technology capable of burning hydrocarbons through a closed combustion process of 220 tons per hour, without releasing hydrocarbons into the air.

Chandra Asri's initiatives to improve energy efficiency and reduce GHG emissions include modifying the Charge Gas Compressor (CGC) sub process and furnace at the Ethylene Plant by setting process parameters and modifying the Styrene Monomer plant. All these initiatives have succeeded in reducing energy and steam consumption.



LISTRIK TENAGA SURYA TAHAP-II

Inisiatif listrik tenaga surya di Chandra Asri dilanjutkan pada 2021 dengan listrik tenaga surya Tahap-II untuk memasok kebutuhan listrik pada bangunan gudang, laboratorium, dan stasiun pengisian ulang untuk 53 *forklift* listrik yang beroperasi, bekerja sama dengan Total Solar DG dan BYD.

- Instalasi energi bersih ini menghasilkan energi sebesar 554 MWh setahun dan mencegah emisi GRK hingga 438 ton CO₂e per tahun
- Penggunaan *forklift* listrik berpotensi mengurangi 69.445 kg bahan bakar gas (LPG), menghemat 165.360 liter solar, mereduksi 446.472 metrik kg CO₂e, dan menghilangkan gas buang nitrogen oksida (NOx).

PHASE-II SOLAR POWER

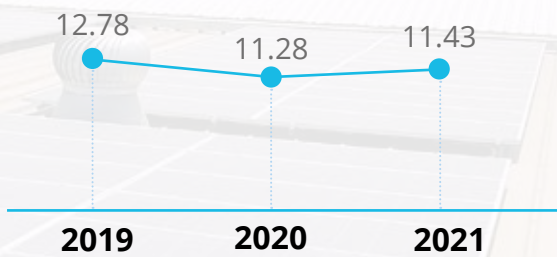
The solar power initiative at Chandra Asri continued in 2021 with Phase-II solar electricity to supply electricity needs for warehouse buildings, laboratories, and charging station for 53 electric forklifts in operation, in collaboration with Total Solar DG and BYD.

- This clean energy installation produces 554 MWh of energy a year and prevents GHG emissions of up to 438 tons of CO₂e per year
- The use of electric forklifts have a potential in reducing 69,445 kg of gas fuel (LPG), saving 165,360 liters of diesel, reducing 446,472 metric kg of CO₂e, and eliminating exhaust gases of nitrogen oxides (NOx).

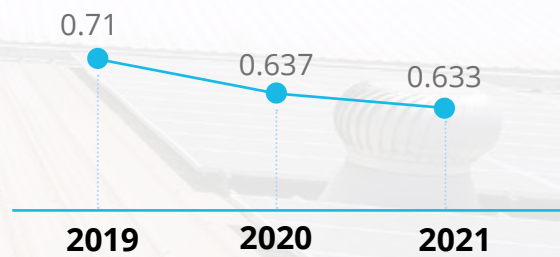
KINERJA ENERGI DAN GRK PETROKIMIA

PETROCHEMICAL'S ENERGY AND GHG PERFORMANCE

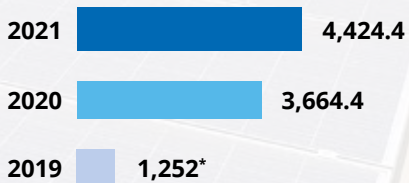
INTENSITAS ENERGI
(GJ/TON TOTAL PRODUK)
ENERGY INTENSITY
(GJ/TON TOTAL PRODUCT)



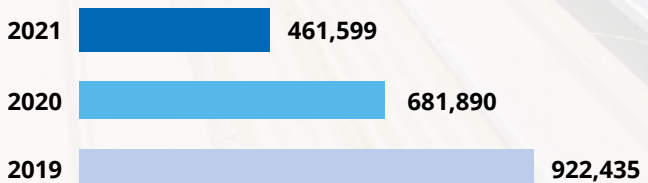
INTENSITAS GRK
(TON CO₂e/TON TOTAL PRODUK)
GHG INTENSITY
(TON CO₂e/TON TOTAL PRODUCT)



PEMAKAIAN ENERGI SURYA (GJ)
SOLAR ENERGY USE (GJ)



PENGURANGAN PEMAKAIAN ENERGI (GJ)
REDUCTION OF ENERGY USE (GJ)



* mulai beroperasi September 2019
started operating in September 2019



BISNIS ENERGI

Perseroan merupakan pemasok energi terbarukan dari panas bumi di Indonesia dengan kapasitas total 875 MW, yang berasal dari unit-unit usaha Star Energy Geothermal (SEG), yaitu Darajat, Wayang Windu, dan Salak.

ENERGY BUSINESS

The Company is the supplier of renewable energy from geothermal energy in Indonesia with a total capacity of 875 MW, which comes from Star Energy Geothermal (SEG) business units, namely Darajat, Wayang Windu, and Salak.

RENEWABLE ENERGY CERTIFICATE

Pembangkitan listrik panas bumi menjadi peluang baru untuk menghijaukan industri di Indonesia melalui skema *Renewable Energy Certificate* (REC). Skema ini memungkinkan perusahaan dari berbagai sektor yang berbeda dapat berkolaborasi untuk mengatasi perubahan iklim melalui pemanfaatan energi bersih.

Pada Oktober 2021, PT Johnson & Johnson Indonesia resmi menerima *Renewable Energy Certificate* (REC) yang diterbitkan oleh Star Energy Geothermal. Energi bersih dalam REC tersebut dipasok dari PLTP Salak. Pembelian REC merupakan pelaksanaan komitmen Johnson & Johnson untuk membangun rantai pasokan hijau di Indonesia termasuk dari pasokan energi.

RENEWABLE ENERGY CERTIFICATE

Geothermal power generation is a new opportunity to create environmentally friendly industries in Indonesia through the Renewable Energy Certificate (REC) scheme. This scheme allows companies from different sectors to collaborate to tackle climate change through the use of clean energy.

In October 2021, PT Johnson & Johnson Indonesia officially received a Renewable Energy Certificate (REC) issued by Star Energy Geothermal. Clean energy in the REC is supplied from Salak PLTP. The purchase of REC is an implementation of Johnson & Johnson's commitment to build a green supply chain in Indonesia, including from energy supply.

CARBON CREDIT

Perseroan telah menerapkan Mekanisme Pembangunan Bersih (MPP) sebagai hasil dari United Nations Framework Convention on Climate Change (“UNFCCC”) dan Protokol Kyoto melalui beberapa proyek. Proyek CDM dari SEG D II Unit-3 adalah proyek pertama di Indonesia yang terdaftar melakukan pembaruan program CDM di UNFCCC pada 2015 serta perolehan kredit karbon/*Certified Emission Reduction* (CER) terbesar di sektor panas bumi.

CARBON CREDIT

The Company has implemented the Clean Development Mechanism (CDM) from the United Nations Framework Convention on Climate Change (“UNFCCC”) and the Kyoto Protocol through several projects. The CDM project from SEG D II Unit-3 is the first project in Indonesia registered for renewal at the UNFCCC in 2015 as well as the largest Certified Emission Reduction (CER) carbon credit in the geothermal sector.

SERTIFIKAT Certificate	PENGURANGAN EMISI GRK GHG Emission Reduction
PLTP Darajat Unit-3 terdaftar di UNFCCC pada tanggal 11 Desember 2006 PLTP Darajat Unit-3 was registered with the UNFCCC on December 11, 2006	794,832 ton CO ₂ e per tahun/per year
PLTP Wayang Windu Unit-2 117 MW terdaftar dengan rujukan nomor 3193, oleh UNFCCC pada tanggal 2 Desember 2010 PLTP Wayang Windu Unit-2 of 117 MW was registered with reference number 3193, by the UNFCCC on December 2, 2010	753,136 ton CO ₂ e per tahun/per year

EFISIENSI ENERGI

Walaupun bisnis pembangkitan energi dari sumber terbarukan merupakan bisnis yang ramah lingkungan, Star Energy Geothermal tetap melakukan efisiensi untuk mencegah kebocoran uap dan penghematan listrik untuk pemakaian sendiri dengan cara melakukan perawatan, optimasi proses, dan mitigasi segera pada peralatan sistem uap untuk mengurangi kehilangan energi pada sistem uap maupun *loss generation*. Di lapangan Wayang Windu, SEGWWL menerapkan menerapkan *integrated control system* yang dapat mengatur sistem uap untuk tetap optimum dan konsep *zero venting* sehingga tidak ada uap yang terbuang.

Efisiensi energi yang dilakukan pembangkit-pembangkit Star Energy Geothermal antara lain inovasi pada pemeliharaan, pembersihan dan pelumasan turbin, agar tetap dapat dilakukan secara *online* sehingga dapat terus memasok listrik, modifikasi pada *cooling tower* agar kinerjanya lebih baik, penggantian pompa diesel menjadi pompa listrik, dan mengatur tata letak pompa sehingga konsumsi bahan bakar akan berkurang dan biaya sewa pompa lebih efisien.

ENERGY EFFICIENCY

Although the business of generating energy from renewable sources is an environmentally friendly business, Star Energy Geothermal continues to maintain efficiency to prevent steam leakage and save electricity for own use by performing maintenance, process optimization, and immediate mitigation on steam system equipment to reduce energy loss in the steam system and loss generation. At Wayang Windu field, SEGWWL implements an integrated control system that can maintain an optimum steam system and the zero venting concept to prevent any wasted steam.

Energy efficiency carried out by Star Energy Geothermal plants includes innovations in online turbine maintenance, cleaning, and lubrication so that it can continue to supply electricity, modifications to the cooling tower for better performance, replacement of diesel pumps into electric pumps, and setting pump location to reduce fuel consumption and more efficient pump rental costs.

SALAK BINARY PROJECT

Pada Juni 2021, Star Energy Geothermal menandatangani kontrak pembangunan *Brine Heat Recovery Binary Power Plant* bersama Ormat Technologies Inc. dan PT Tripatra Engineers and Constructors.

Proyek Binary merupakan inisiatif yang dikembangkan Star Energy Geothermal dalam rangka menambah pasokan listrik melalui pemanfaatan panas dari air sisa dari proses produksi (*brine*) sumur uap dengan menggunakan teknologi *Organic Rankine Cycle* (ORC), sehingga tidak ada panas terbuang dan tidak memerlukan pemboran sumur baru.

Realisasi proyek ini sekaligus menandai perwujudan misi Star Energy Geothermal untuk memproduksi energi listrik terbarukan sebesar 1.200 MW pada 2028. Proyek yang diharapkan dapat beroperasi pada akhir 2022 ini dapat menghasilkan tambahan pasokan listrik sebesar 13-15 MW (*gross*).

SALAK BINARY PROJECT

In June 2021, Star Energy Geothermal signed a contract for the construction of Brine Heat Recovery Binary Power Plant with Ormat Technologies Inc. and PT Tripatra Engineers and Constructors.

The Binary Project is an initiative developed by Star Energy Geothermal to increase electricity supply by utilizing heat from residual water from the steam well production process (*brine*) using Organic Rankine Cycle (ORC) technology, so that there is no wasted heat and does not require drilling new wells.

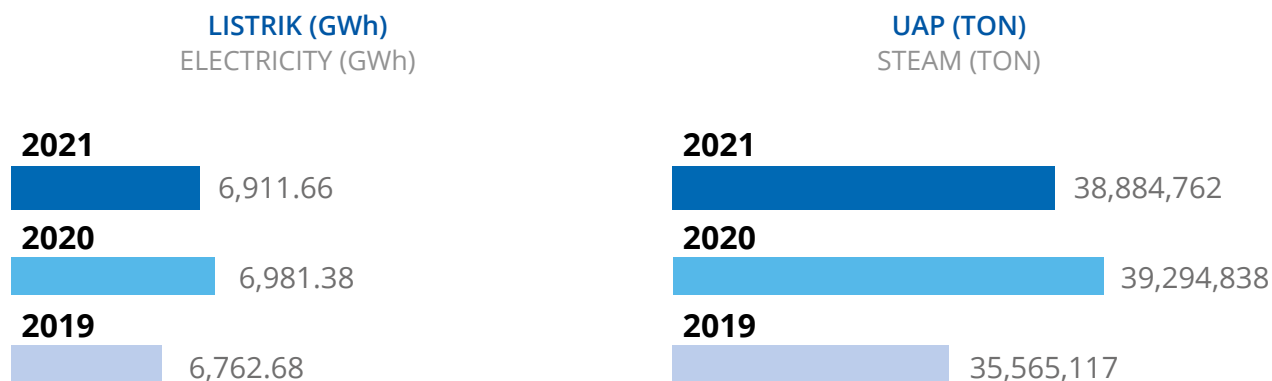
This project also marks the realization of Star Energy Geothermal's mission to produce 1,200 MW of renewable electricity by 2028. The project, which is expected to be operational by the end of 2022, can generate an additional 13-15 MW of electricity supply (*gross*).



Sosialisasi Salak Binary Project di SD Pamijahan, Kabupaten Bogor, Jawa Barat pada 29 Juli 2021
Salak Binary Project dissemination at Pamijahan Elementary School, Bogor Regency, West Java on July 29, 2021

PRODUKSI ENERGI TERBARUKAN STAR ENERGY GEOTHERMAL

STAR ENERGY GEOTHERMAL'S RENEWABLE ENERGY PRODUCTION



EMISI NON-GRK

Non-GHG Emissions

Emisi non gas rumah kaca (non-GRK) berpotensi menjadi sumber pencemaran di pabrik petrokimia terutama dari emisi *fugitive*. Chandra Asri meminimalkan dampak emisi non-GRK dengan memetakan sumber-sumber emisi gas *Volatile Organic Compound* (VOC) di Pabrik Monomer dan Pabrik Polymer, dan ditindaklanjuti dengan langkah mitigasi yang tepat.

Unit bisnis petrokimia meningkatkan kinerja emisi dengan melakukan modifikasi pada sistem *vent gas* yang dapat menghemat pemakaian gas LPG dan menurunkan emisi GRK, SO_x, dan NO_x. Unit bisnis energi juga melakukan upaya pengelolaan emisi non-GRK melalui pemasangan NCG *flow meter* untuk mengukur debit NCG (*Non-Condensable Gas*) yang dilepaskan ke atmosfer secara kontinu di SEGWWL, serta rekayasa injeksi kondensat untuk mencegah emisi H₂S di SEGS.

Non-greenhouse gas (non-GHG) emissions can potentially be a source of pollution in petrochemical plants, especially from fugitive emissions. Chandra Asri minimizes the impact of non-GHG emissions by mapping the sources of Volatile Organic Compound (VOC) gas emissions at the Monomer and Polymer Plants, followed up with appropriate mitigation measures.

The petrochemical business unit improves emission performance by modifying the gas vent system which can save LPG gas consumption and reduce GHG, SO_x, and NO_x emissions. The energy business unit also makes efforts to manage non-GHG emissions through the installation of an NCG flow meter to measure the discharge of NCG (Non-Condensable Gas) continuously released into the atmosphere at SEGWWL, as well as condensate injection modification to prevent H₂S emissions at SEGS.

LINE BISNIS Business Line	JENIS POLUTAN Pollutant type	SATUAN Unit	2021	2020	2019
Petrokimia Petrochemical	SO _x	Ton	165.5	263.00	803.6
	NO _x	Ton	5,323.3	2,505.4	4,298.3
Energi Energy	H ₂ S	Ton	12,146.11	10,806.72	12,880.39
	NH ₃	Ton	476.03	2,737.04	1,068.68



GREEN BUILDING

Gedung Wisma Barito Pacific II merupakan salah satu portofolio gedung perkantoran yang dikelola anak perusahaan Griya Idola. Gedung 24 lantai yang dibangun di atas lahan seluas 5.290 m² telah mulai beroperasi sejak tahun 2021 dan menjadi ikon di wilayah Jakarta Barat karena menonjolkan desain ruang hijau.

Konsep hijau tidak hanya diterapkan pada fasad dan fasilitas gedung tetapi juga melekat pada desain, konstruksi, dan pengoperasian gedung itu sendiri yang ramah dan minim jejak lingkungan. Wisma Barito Pacific II telah mendapatkan sertifikat Green Building GREENSHIP peringkat Emas dengan nomor 101/PT.SBH/DR/IX/2021 dari Green Building Council Indonesia. Sertifikat Green Building berlaku 3 tahun sejak 20 Agustus 2021.

GREEN BUILDING

Wisma Barito Pacific II building is one of the office building portfolios managed by Griya Idola. The 24-storey building, built on an area of 5,290 m², has been operating since 2021 and has become an icon in West Jakarta because it emphasizes the green space design.

The green concept is not only applied to the facade and facilities of the building but also the design, construction, and operation of the building itself that is ecofriendly and has minimal environmental footprint. Wisma Barito Pacific II has received a Green Building GREENSHIP certificate with a Gold rating number 101/PT.SBH/DR/IX/2021 from the Green Building Council Indonesia. The Green Building Certificate is valid for 3 years from August 20, 2021.

PENGELOLAAN DAMPAK LINGKUNGAN

Environmental Impact Management

Operasi bisnis Perseroan di bidang petrokimia dan energi menimbulkan dampak lingkungan yang signifikan seperti emisi, efluen, limbah, penggunaan sumber daya air, dan keanekaragaman hayati. Dampak yang sama juga timbul dari bisnis properti namun relatif lebih kecil.

The Company's business operations in the petrochemical and energy sectors have significant environmental impacts such as emissions, effluents, waste, use of water resources, and biodiversity. The same impact also arises from the property business but is relatively smaller.

EFLUEN

Effluent

Setiap unit bisnis yang menghasilkan air limbah (effluen) memiliki instalasi pengolah air limbah (IPAL) dan izin pembuangannya sesuai dengan ketentuan yang berlaku. Air yang dikeluarkan dari IPAL dipastikan telah memenuhi Baku Mutu Lingkungan sebelum dibuang ke badan air penerima. Untuk memastikan kepatuhan pada peraturan yang berlaku, seluruh unit usaha melaksanakan pemantauan secara periodik dan uji kualitas air limbah ke laboratorium lingkungan yang terakreditasi.

Each business unit that produces effluent has a wastewater treatment plant (WWTP) and a disposal permit in accordance with applicable regulations. The water discharged from the WWTP is ensured to meet the Environmental Quality Standards before being discharged into the receiving body of water. To ensure compliance with applicable regulations, all business units carry out periodic monitoring and wastewater quality testing to an accredited environmental laboratory.

Dengan pengelolaan yang baik, selama masa pelaporan tidak terjadi kasus tumpahan yang signifikan di lingkungan Grup Barito Pacific.

With proper management, there were no cases of significant spills within the Barito Pacific Group throughout the reporting period.

KONTRIBUSI KAMI KEPADA SDGs
OUR CONTRIBUTION TO SDGs



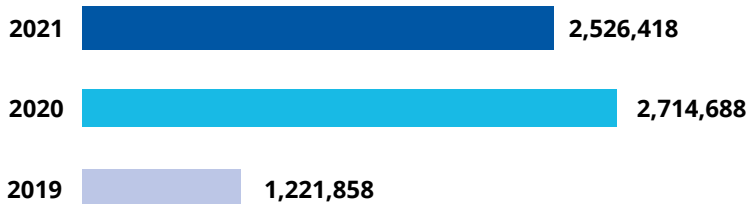
BISNIS PETROKIMIA

Perseroan berkomitmen agar air efluen dari bisnis petrokimia selalu memenuhi baku mutu yang telah ditetapkan sebelum dialirkan ke laut. Chandra Asri mengolah air limbah melalui IPAL dan melakukan pemantauan di 5 titik penataan yaitu: 1) Outlet IPAL PE; 2) Outlet IPAL Olefins; 3) Outlet IPAL PP; 4) Outlet Desalinasi; dan 5) Outlet domestik PP.

PETROCHEMICAL BUSINESS

The Company is committed to ensuring that effluent from the petrochemical business always meets the set quality standards before being discharged into the sea. Chandra Asri treats effluent through WWTP and conducts monitoring at 5 compliance points, namely: 1) PE WWTP Outlet; 2) Olefins WWTP Outlet; 3) PP WWTP Outlet; 4) Desalination Outlet; and 5) PP domestic outlet.

VOLUME PEMBUANGAN AIR LIMBAH KE LAUT (TON) VOLUME OF WASTEWATER DISCHARGE TO SEA (TON)



BISNIS ENERGI

Operasi pembangkit panas bumi tidak memerlukan pasokan air bersih. Air bersih dipakai untuk kegiatan penunjang operasi seperti kantor, mes, dan sebagainya yang diolah dengan *Sewage Treatment Plant*. Upaya untuk mengurangi beban lingkungan dilakukan Star Energy Geothermal dengan cara memanfaatkan air dari proses untuk re-injeksi, misalnya terhadap air kondensat dan *brine*, sehingga tidak ada efluen yang ditimbulkan dari kegiatan produksi (100% air limbah proses diinjeksikan kembali ke dalam sumur).

Namun demikian air limbah yang ditimbulkan dari kegiatan tetap diminimalkan, antara lain dengan melakukan substitusi bahan kimia sehingga menghindarkan timbulan air limbah yang mengandung asam serta memperbaiki kualitas air buangan dari WWTP, seperti yang dilakukan oleh SEGS dengan tanaman kangkung dan anggrek *Dendrobium aphyllum* digunakan sebagai *phyto-treatment* yang mampu menurunkan kandungan BOD, COD, dan NH_3 . Program yang dinamai *Cai Kahuripan* ini juga menambah bibit anggrek endemik untuk kegiatan keanekaragaman hayati di Lapangan Salak.

Pada 2021, SEGS memperkenalkan program *Pakem Lestari* (Pakai Kembali dan Lestarikan), di mana air hasil *backwash* yang sebelumnya langsung dialirkan ke pipa pembuangan, kini dialirkan dan diendapkan ke bak penampungan sehingga dapat digunakan untuk menyiram tanaman di unit pembibitan tanaman (*nursery*) sehingga menekan jumlah air yang terbuang.

ENERGY BUSINESS

Geothermal operations do not require a clean water supply. Clean water is used for operational support activities such as offices, housings, and others which is treated with the Sewage Treatment Plant. Efforts to reduce the environmental burden are carried out by Star Energy Geothermal by utilizing water from the process for re-injection, for example condensate water and brine, so that no effluent is generated from production activities (100% of process wastewater is injected back into the well).

However, we still minimize wastewater generated from these activities, namely by substituting chemicals to avoid the generation of acidic wastewater and improve the quality of wastewater from WWTP, as was done by SEGS by using water spinach and *Dendrobium aphyllum* orchids as phyto-treatment that can reduce BOD, COD, and NH_3 . The program, called *Cai Kahuripan*, also adds endemic orchid seedlings for biodiversity activities in Salak Field.

In 2021, SEGS introduced the *Pakem Lestari* (Reuse and Preserve) program, in which water from backwash, which was previously directly channeled into sewer pipes, is now deposited into a holding tank to water plants in the nursery unit, thereby reducing the amount of wasted water.

LIMBAH

Waste

Untuk mengurangi beban pencemaran lingkungan akibat limbah, setiap unit operasional melakukan pengelolaan limbah bahan beracun berbahaya (limbah B3) dan limbah non-B3 sesuai dengan peraturan dan persyaratan yang berlaku, melalui berbagai upaya seperti penerapan 5R (*recycle, recovery, reuse, reduction, dan replacement*) dan mengurangi *end-of-pipe treatment* pada semua jenis limbah yang dihasilkan dari kegiatan.

To reduce environmental pollution from waste, each operational unit manages hazardous waste and non-hazardous waste in accordance with applicable regulations and requirements, through various efforts such as the implementation of 5R (*recycle, recovery, reuse, reduction, and replacement*) and reduce end-of-pipe treatment on all types of waste generated from activities.

KONTRIBUSI KAMI KEPADA SDGs
OUR CONTRIBUTION TO SDGs



TIMBULAN LIMBAH NON-B3 (TON) NON-HAZARDOUS WASTE GENERATION (TON)

BISNIS Business	2021	2020	2019
Petrokimia Petrochemical	1,054.44	1,351.76	685.69
Energi Energy	123.03	97.13	84.22
Properti dan Hotel Property and Hotel	28.33	47.82	62.47

* hanya mencakup sampah Gedung Wisma Barito Pacific
only includes waste from Wisma Barito Pacific Building



TIMBULAN LIMBAH B3 (TON)

HAZARDOUS WASTE GENERATION (TON)

BISNIS BUSINESS	2021	2020	2019
Petrokimia Petrochemical	4,574.29	3,323.5	7,216.37

Selama tahun pelaporan tidak terdapat kasus tumpahan limbah di lingkungan Perseroan.

During reporting period, there were no cases of waste spill in the Company area.

BISNIS PETROKIMIA

Chandra Asri melaksanakan beberapa inisiatif untuk meminimalkan limbah, antara lain:

PETROCHEMICAL BUSINESS

Chandra Asri carries out several initiatives to minimize waste, including:

LIMBAH B3/HAZARDOUS WASTE

REDUCE

Modifikasi pada proses produksi Styrene Monomer yang dapat menurunkan timbulan limbah polimer dan mencegah terjadinya *emergency shutdown* akibat sumbatan polimer pada sistem
Modifications to the Styrene Monomer production process that can reduce polymer waste generation and prevent emergency shutdowns due to polymer blockages in the system

RECYCLE

Meningkatkan program *recycle spent gasoline* yang telah dijalankan sejak tahun 2019 di Ethylene Plant
Increase the recycle spent gasoline program that has been running since 2019 at the Ethylene Plant

LIMBAH NON-B3/NON-HAZARDOUS WASTE

REUSE

- Memanfaatkan limbah non B3 *inner roll* menjadi *casing* lubang biopori
Utilizing non-hazardous waste of inner rolls into casings for biopore hole
- Memanfaatkan limbah non B3 drum bekas menjadi tempat sampah, kerajinan, dan barang-barang bermanfaat lainnya. Termasuk dengan pemberdayaan masyarakat dan sekolah MTSN 5 Sumuranja, Serang dalam program "BABEMA" yaitu Barang Bekas Manfaat yang sekaligus menjadi program sekolah Adiwiyata yang ramah lingkungan.
Utilizing non-hazardous waste from used drums into trash bins, crafts, and other useful items. Including empowerment for the community and MTSN 5 Sumuranja, Serang in the "BABEMA" program of repurposing used goods, which is also an environmentally friendly Adiwiyata school program.



Pada 2021, Chandra Asri berhasil menurunkan total timbulan limbah non-B3 hingga 22% dibandingkan tahun sebelumnya, namun rasio pemanfaatan limbah non-B3 tercapai -12,5% dibandingkan target 2%. Sedangkan timbulan limbah B3 mengalami kenaikan karena kegiatan *Turn Around Maintenance* di Site Office Pulo Ampel yang signifikan menimbulkan peningkatan limbah.

BISNIS ENERGI

Pengurangan beban pencemaran limbah B3 yang dilakukan di unit bisnis energi dilaksanakan melalui upaya: penggantian atau perpanjangan umur pakai bahan kimia sehingga mencegah timbulan limbah B3, modifikasi atau penggantian peralatan yang tidak menggunakan B3, dan pemanfaatan kembali limbah dari kegiatan operasi.

Inisiatif untuk mengurangi limbah B3 dengan modifikasi pada peralatan dan proses pendukung seperti modifikasi poros motor *cooling tower* untuk melakukan pengisian oli, sehingga pengisian oli dapat dilakukan tanpa mematikan *cooling tower* dan menurunkan timbulan oli bekas, pemakaian majun *Swipe-all S70* yang lebih besar, lebih ringan, dan berdaya serap tinggi, dan reformulasi lumpur bor sehingga kegiatan pengeboran dapat dilakukan lebih cepat serta efisien dan menurunkan penggunaan bahan kimia dapat diturunkan dan volume dan berat limbah B3 dapat berkurang.

Sedangkan untuk pengurangan limbah non-B3, inisiatif yang dilakukan antara lain dengan daur pakai minyak jelantah dari kegiatan dapur menjadi sabun cuci dengan ekstrak akar wangi melalui kegiatan pemberdayaan masyarakat, pemanfaatan lumpur dari *cooling tower*, yang berdasarkan hasil uji adalah tidak beracun, menjadi kompos dan daur kembali *fillpack* pada *cooling tower* untuk mencegah timbulan limbah non-B3.

BISNIS PROPERTI DAN HOTEL

Pada unit bisnis properti dan hotel, praktik pengelolaan limbah domestik dilakukan melalui segregasi sampah berdasarkan jenisnya dan kemudian melakukan pengolahan sampah dengan daur ulang dan daur pakai oleh pihak eksternal.

In 2021, Chandra Asri has successfully reduced the total generation of non-hazardous waste by up to 22% compared to the previous year, however the utilization ratio of non hazardous waste was recorded -12.5% compared to the target of 2%. Meanwhile, the generation of hazardous waste has increased due to the Turn Around Maintenance activity at Pulo Ampel Site Office which has significantly increased waste.

ENERGY BUSINESS

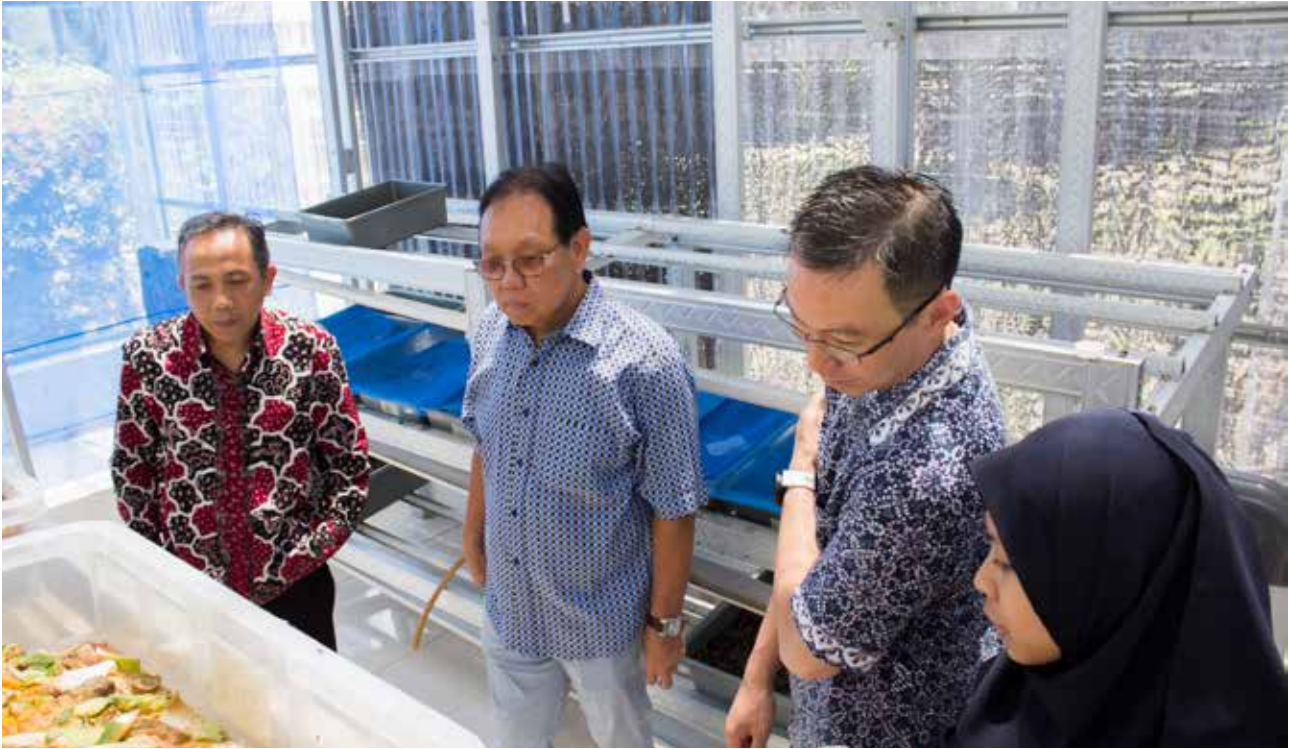
Reducing hazardous waste pollution in the energy business unit is carried out through the following measures: replacing or extending the life of chemicals to prevent the generation of hazardous waste, modification or replacement of equipment that does not use hazardous materials, and reusing waste from operating activities.

Initiatives to reduce hazardous waste by modifying supporting equipment and processes such as modifying the cooling tower motor shaft, so that oil filling can be carried out without turning off the cooling tower and reducing used oil generation, using the larger, lighter *Swipe-all S70* rags with high absorption, and reformulation of drilling mud so that drilling activities can be quicker and efficient, and reduce the use of chemicals and reduce the volume and weight of hazardous waste.

As for reduction of non-hazardous waste, the initiatives carried out include recycling used cooking oil from the kitchens into dishwashing liquid with vetiver extract through community development program, utilizing sludge from cooling tower, in which are non-toxic based on test results, into compost, and recycling fill packs on cooling tower to prevent non-hazardous waste generation.

PROPERTY AND HOTEL BUSINESS

In the property and hotel business units, domestic waste management practices are carried out through waste segregation by type and then processing waste by recycling and repurposing by external parties.



Pada Maret 2021, Badan Lingkungan Hidup DKI Jakarta memberikan apresiasi 'Jakarta Less Waste Building Initiative' untuk Gedung Wisma Barito Pacific (WBP) yang dikelola Griya Idola. Berdasarkan penilaian berhasil mengurangi berat sampah di tempat pembuangan akhir hingga 100%. Penilaian tersebut juga telah divalidasi oleh Departemen Lingkungan Hidup. Sejak tahun 2019, Griya Idola dan Chandra Asri bekerja sama dengan Waste4Change dalam implementasinya dalam program *zero waste to landfill* dengan bekerja sama dengan Bank Sampah

Salah satu properti Barito Pacific yaitu Mambruk Hotel - Anyer sejak tahun 2019 berusaha mengelola sampah organik dari kegiatan hotel melalui budidaya *Black Soldier Fly* (BSF). Pengolahan sampah dapat mengurangi hampir seluruh sampah dapur dan memberikan hasil seperti telur BSF, *maggot*, lindi (pupuk cair), dan kompos yang bermanfaat. Inisiatif ini sempat terhenti pada masa pandemi dan telah kembali bergulir mulai September 2021. Pada periode September 2021 sampai Januari 2022, budidaya BSF mampu mengolah 17.878 dari total 31.096 kg sampah dapur atau sebesar 57%.

In March 2021, the DKI Jakarta Environment Agency gave appreciation to the 'Jakarta Less Waste Building Initiative' for Wisma Barito Pacific (WBP) building managed by Griya Idola. Based on the assessment, it has succeeded in reducing the weight of waste in landfills by up to 100%. The assessment has also been validated by the Ministry of the Environment. Since 2019, Griya Idola and Chandra Asri have collaborated with Waste4Change in the zero waste to landfill program in collaboration with Waste Banks.

One of Barito Pacific properties, namely Mambruk Hotel - Anyer, since 2019 has tried to manage organic waste from hotel activities through the cultivation of Black Soldier Fly (BSF). Waste processing can reduce almost all kitchen waste and provide results such as BSF eggs, maggot, leachate (liquid fertilizer), and compost. This initiative was postponed during the pandemic and has resumed starting in September 2021. In the period of September 2021 to January 2022, BSF cultivation was able to process 17,878 kg from a total of 31,096 kg of kitchen waste or by 57%.

EKONOMI SIRKULER

Circular Economy

KONTRIBUSI KAMI KEPADA SDGs
OUR CONTRIBUTION TO SDGs



Extended Producer Responsibility (EPR) merupakan salah satu mandat yang diterima oleh anak perusahaan Chandra Asri, sebagai industri petrokimia terintegrasi terbesar di Indonesia, sebagai bagian dari upaya seluruh komponen masyarakat untuk mengurangi beban lingkungan akibat timbulan sampah, salah satu yang utama adalah sampah plastik.

Extended Producer Responsibility (EPR) is one of the mandates received by Chandra Asri, as the largest integrated petrochemical industry in Indonesia, as part of the efforts of all components of society to reduce the environmental burden caused by waste generation, one of which is plastic waste.

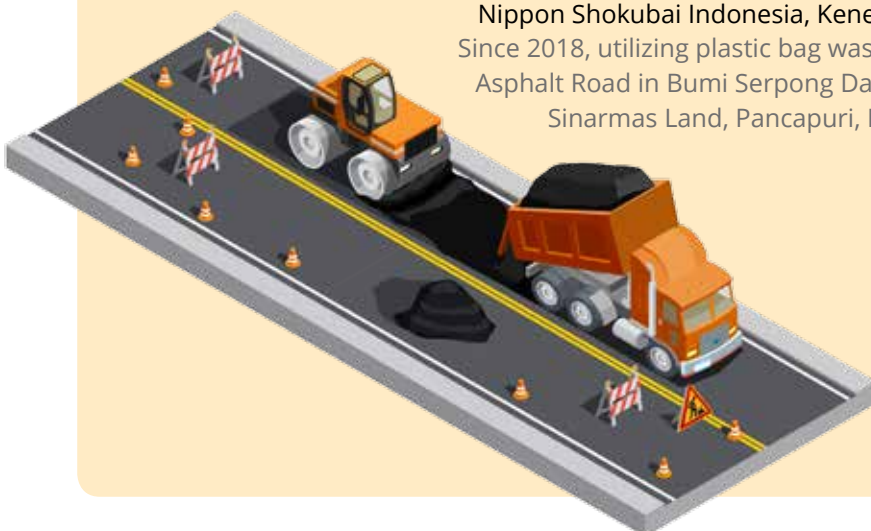
Untuk mengurangi dampak timbulan sampah plastik yang tidak terkelola, Perseroan menerapkan prinsip ekonomi sirkuler dengan beberapa pendekatan. Tujuan penerapan ekonomi sirkuler adalah mencegah sampah dan limbah berakhir di Tempat Pembuangan Akhir dengan cara meningkatkan nilai tambah produk selama daur pakainya.

To reduce the impact of unmanaged plastic waste, the Company applies the principle of circular economy with several approaches. The purpose of implementing a circular economy is to prevent waste from ending up in landfills by increasing the added value of the product during its life cycle.

SIRKULASI PLASTIK DALAM PEREKONOMIAN TIDAK TERBUANG KE LINGKUNGAN PLASTIC CIRCULATION IN THE ECONOMY WITHOUT LITTERING THE ENVIRONMENT

JALAN ASPAL PLASTIK/PLASTIC ASPHALT ROAD

Sejak 2018, memanfaatkan sampah kantong plastik sebagai bahan campuran Jalan Aspal Plastik sepanjang 50,8 km di Bumi Serpong Damai dan Cilegon, dengan berkolaborasi bersama Sinarmas Land, Pancapuri, Nippon Shokubai Indonesia, Kenertec, dan Synthetic Rubber Indonesia. Since 2018, utilizing plastic bag waste as a mixture for the 50.8 km Plastic Asphalt Road in Bumi Serpong Damai and Cilegon, in collaboration with Sinarmas Land, Pancapuri, Nippon Shokubai Indonesia, Kenertec, and Synthetic Rubber Indonesia.



37.5
juta lembar | million pieces
Sampah plastik yang dialihkan
dari Tempat Pembuangan Akhir
Plastic waste diverted from
landfill

**SAGARA MENGURANGI PLASTIK MARINE DEBRIS/
SAGARA REDUCING PLASTIC MARINE DEBRIS**

Pembersihan dan segregasi sampah plastik yang dikumpulkan nelayan waktu melaut untuk dijual sebagai bahan daur ulang di Bank Sampah Digital dan bahan baku ke IPST ASARI. Produk BBM Plastik dari olahan IPST ASARI juga dimanfaatkan untuk kompor dan bahan bakar perahu nelayan.

Cleaning and segregation of plastic waste collected by fishermen at sea to be sold as recycling material at Digital Waste Bank and raw materials to IPST ASARI. Plastic fuel products made by IPST ASARI are also used for stoves and fuel for fishing boats.

2,006 kg

Sampah plastik lautan selama empat bulan hingga Desember 2021
Marine debris over four months to December 2021



JAKARTA RECYCLE CENTER (JRC)

Mendukung kegiatan DLH DKI Jakarta di Pesanggrahan, Jakarta Selatan dengan penyediaan kantong daur ulang sebagai wadah pemilahan sampah dari rumah, fasilitas pengelolaan sampah organik, dan publikasi. Supporting DKI Jakarta Environment Agency activities in Pesanggrahan, South Jakarta by providing recycling bags for waste segregation from home, organic waste management facilities, and publications.

Mengurangi sampah terbuang ke TPA hingga **80%**, melibatkan 1.500 KK mengelola hingga 213,1 ton sampah
Reducing waste disposal to landfills by 80%, involving 1,500 households in managing up to 213.1 tons of waste

**PROGRAM WORLD CLEANUP DAY (WCD) 2021 JAKARTA/
2021 WORLD CLEANUP DAY (WCD) PROGRAM JAKARTA**

Mendukung WCD 2021 di 300 titik yang tersebar di seluruh wilayah Jakarta untuk mengumpulkan sampah untuk dikelola lebih lanjut oleh Bank Sampah.

Supporting 2021 WCD at 300 locations throughout Jakarta area by collecting waste to be further processed by Waste Bank.

73,993 kg

Sampah yang berhasil dikumpulkan (dengan total sampah plastik sebanyak 31.711 kg) untuk didaur ulang di Bank Sampah
Successfully collected waste (with a total of 31,711 kg of plastic waste) to be recycled at Waste Bank



IPST ASARI - END-TO-END PLASTIC WASTE MANAGEMENT

IPST Asari merupakan fasilitas pengelolaan sampah plastik binaan Chandra Asri yang dikelola komunitas Serdang, Serang. Hasil olahan antara lain bahan daur ulang, BBM plastik melalui pirolisis dan riset homogenisasi untuk membuat *Refuse Derived Fuel* (RDF) bahan bakar alternatif.

IPST ASARI memiliki kapasitas pengelolaan 8 ton sampah plastik/bulan diresmikan oleh Walikota Cilegon pada November 2021. Inisiatif ini merupakan upaya Chandra Asri untuk membantu Pemerintah Indonesia mengurangi penumpukan sampah di TPA dan sampah terbang ke lautan hingga 70% pada 2025 melalui pendekatan ekonomi sirkuler.

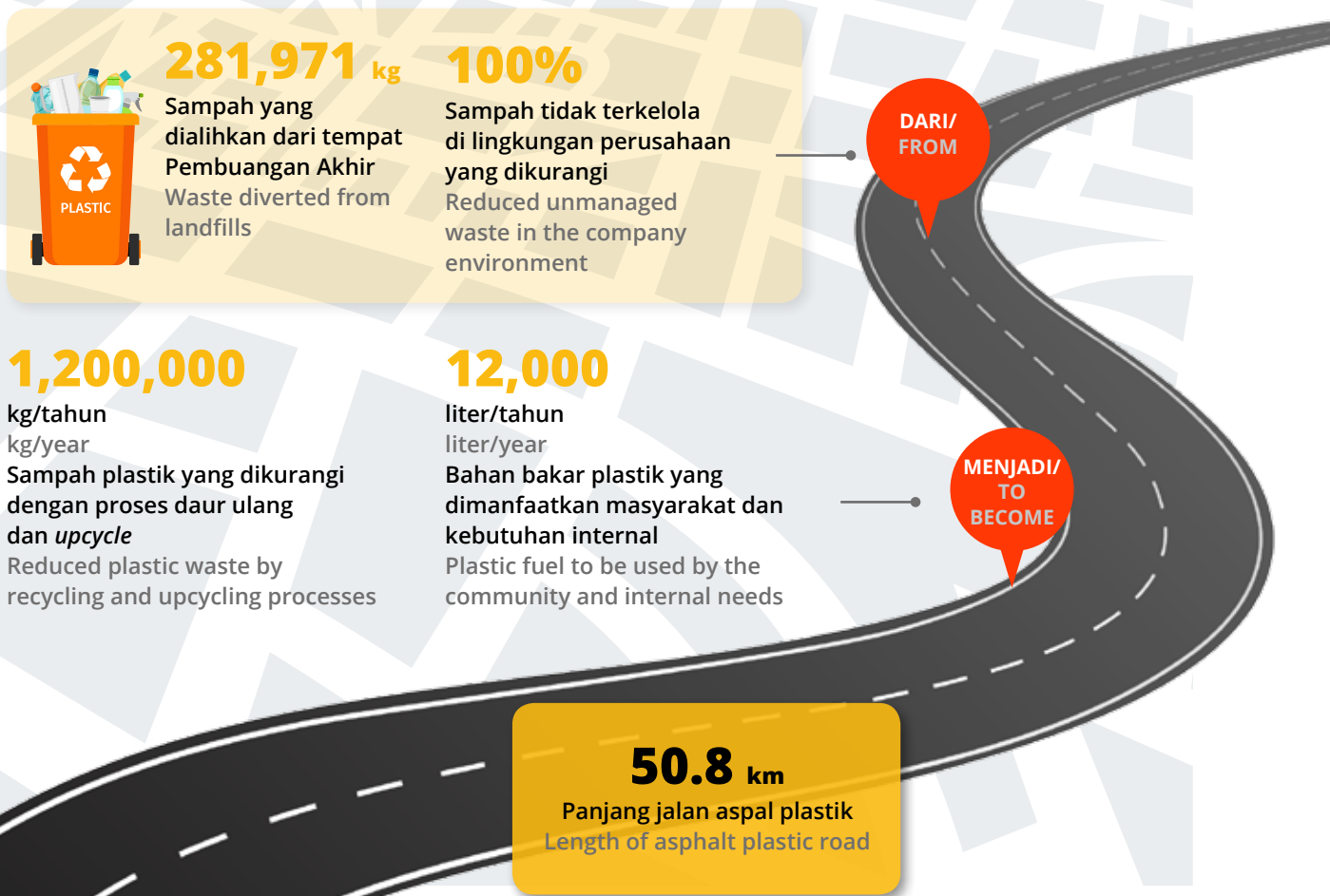
IPST ASARI - END-TO-END PLASTIC WASTE MANAGEMENT

IPST Asari is a plastic waste management facility fostered by Chandra Asri and managed by the community in Serdang, Serang. Processed products include recycled materials, plastic fuel through pyrolysis, and homogenization research to make *Refuse Derived Fuel* (RDF) as an alternative fuel.

IPST ASARI has the capacity to manage 8 tons of plastic waste/month and was inaugurated by the Mayor of Cilegon in November 2021. This initiative is Chandra Asri's effort to help the Government of Indonesia in reducing the accumulation of waste in landfills and the ocean by up to 70% by 2025 through a circular economy approach.

PENERAPAN EKONOMI SIRKULER CHANDRA ASRI

THE IMPLEMENTATION OF CIRCULAR ECONOMY BY CHANDRA ASRI



AIR

Water

Perseroan melakukan pelestarian sumber daya air melalui kerja sama dengan komunitas sekitar lokasi operasi bisnis, revegetasi, dan pembinaan masyarakat di daerah penyangga untuk melakukan pertanian terpadu dan konservasi lingkungan.

The Company conserves water resources by collaborating with communities around the location of business operations, revegetation, and fostering communities in buffer areas to carry out integrated agriculture and environmental conservation.

PEMAKAIAN AIR (MEGALITER)

WATER USAGE (MEGALITER)

BISNIS BUSINESS	2021	2020	2019
Energi Energy	36.92	31.49	41.01
Properti dan Hotel Property and Hotel	138.95	134.96	395.74
Petrokimia Petrochemical	4,786.57	4,494.23	4,511.66
Total Total	4,962.44	4,660.68	4,008.79

* 1 metrik ton air = 1.000 liter
1 metric ton of water = 1,000 liter

KONTRIBUSI KAMI KEPADA SDGs
OUR CONTRIBUTION TO SDGs



BISNIS PETROKIMIA

Sumber air yang dimanfaatkan oleh unit bisnis petrokimia berasal dari pihak eksternal yaitu PT Krakatau Tirta Industri, dan air laut yang ditawarkan (*desalinated water*). Chandra Asri melakukan penghematan air dalam proses produksi melalui pemutakhiran peralatan dan proses, dan penyusunan inisiatif serta strategi konservasi air dalam *action plan "Improve Water Conservation and Wastewater Load Reduction"* agar mampu menurunkan intensitas pemakaian air di masing-masing pabrik.

Pada 2021 inisiatif efisiensi air yang dilakukan antara lain:

- ▶ Pemanfaatan *low pressure steam* dengan metode *Hot Bubbling* yaitu memanfaatkan air bekas pencucian dalam siklus tertutup pada proses pembersihan pelat penukar panas, inovasi dengan menggunakan bejana tekan yang tidak terpakai dan penambahan jalur uap bisa membuat pekerjaan pembersihan PHE lebih jarang, dilakukan dengan aman, dan menggunakan air lebih sedikit;
- ▶ Daur pakai air dari proses untuk digunakan sebagai air umpan *boiler* setelah diolah terlebih dahulu.

PETROCHEMICAL BUSINESS

The petrochemical business unit sourced its water from an external party, namely PT Krakatau Tirta Industri, and desalinated water. Chandra Asri saves water in the production process by upgrading equipment and processes as well as establishing water conservation initiatives and strategies in the "Improve Water Conservation and Wastewater Load Reduction" action plan to reduce water use intensity in each plant.

In 2021, the water efficiency initiatives include:

- ▶ Utilization of low-pressure steam with Hot Bubbling method, which utilizes washing water in a closed cycle in the heat exchanger plate cleaning process, innovation by utilizing unused pressure vessels and adding steam lines can result in less frequent, safer, less PHE cleaning, and less water usage;
- ▶ Recycle water from the process to be used as boiler feed water after it has been treated.



PENERAPAN GREEN CHEMISTRY

Chandra Asri bekerja sama dengan Ecolab, perusahaan global yang bergerak dalam bidang solusi sumber daya air, mengimplementasikan *Green Chemistry* yang difokuskan pada perlakuan pada instalasi pengolahan air dan optimasi proses.

Dengan *Green Chemistry*, konsumsi air bisa dikurangi hingga 92,2 juta galon per tahun, menghemat energi 6 juta kilowatt, menurunkan emisi karbon dioksida hingga 2.100 ton, menurunkan produksi air limbah sebanyak 472.000 ton, dan mengurangi pembuangan gas Nitrogen Oksida hingga 75 persen.

GREEN CHEMISTRY IMPLEMENTATION

Chandra Asri in collaboration with Ecolab, a global company engaged in water resources solutions, implements Green Chemistry which is focused on treatment of water treatment plants and process optimization.

Green Chemistry can reduce water consumption by 92.2 million gallons per year, save 6 million kilowatts of energy, reduce carbon dioxide emissions by 2,100 tons, reduce wastewater generation by 472,000 tons, and reduce Nitrogen Oxide gas emissions by 75 percent.

PROPORSI PEMAKAIAN AIR BERDASARKAN SUMBER AIR (TON) ^[303-1]

PROPORTION OF WATER USE BY WATER SOURCE (TON)

SUMBER AIR WATER SOURCE	2021	2020	2019
Pihak ketiga Third Party	3,734,554	3,450,750	3,572,038
Desalinasi Desalination	1,052,018	1,043,481	939,620
Total Total	4,786,572	4,494,231	4,511,658

Chandra Asri juga aktif terlibat dalam pelestarian Daerah Aliran Sungai (DAS) Cidanau sebagai hulu pendukung ketersediaan sumber air yang digunakan oleh masyarakat Serang Barat dan Kota Cilegon termasuk menjadi sumber air baku bagi perusahaan pemasok air untuk pabrik. Kegiatan ini ditempuh sebagai bagian dari tanggung jawab pada kelestarian sumber daya air dan mengurangi *water stress level* di DAS Cidanau, melalui pelestarian daerah tangkapan air Cagar Alam Rawa Danau.

Chandra Asri is also actively involved in the conservation of Cidanau Watershed (DAS) as an upstream supporter of the availability of water sources used by the people of West Serang and Cilegon City, including being a source of raw water for the plant's water supply. This activity is carried out as part of Chandra Asri's responsibility to conserve water resources and reduce water stress levels in Cidanau watershed, through the conservation of the catchment area of Rawa Danau Nature Reserve.

BISNIS ENERGI

Air permukaan pada unit bisnis energi hanya digunakan untuk kegiatan pendukung. Penghematan dan pengurangan pemakaian air permukaan dilakukan antara lain dengan pemanfaatan air kondensat dan air buangan proses *backwash* untuk kegiatan pembersihan dan penyiraman, serta modifikasi metode pengujian kapasitas produksi sumur panas bumi dengan menggunakan teknologi *Spinner Analysis* yang lebih sedikit menggunakan air.

Konservasi air merupakan isu penting di wilayah kerja panas bumi (WKP) karena air merupakan tantangan keberlanjutan bagi masyarakat sekitar baik untuk kehidupan maupun untuk kegiatan pertanian. Oleh karena itu Star Energy Geothermal memberdayakan masyarakat sekitar untuk melindungi sumber-sumber air yang cenderung terus berkurang akibat perubahan fungsi lahan.

ENERGY BUSINESS

Surface water in the energy business unit is only used for supporting activities. Reducing the use of surface water is carried out, among others, by utilizing condensate water and backwash process wastewater for cleaning and watering activities, as well as modification of the production capacity testing method of geothermal wells by using *Spinner Analysis* technology which uses less water.

Water conservation is an important issue in geothermal working areas because water is a sustainability challenge for the surrounding community both for daily lives and for agricultural activities. Therefore, Star Energy Geothermal empowers the surrounding community to protect water sources that tend to decrease due to changes in land use.

KEANEKARAGAMAN HAYATI

Biodiversity

Perlindungan keanekaragaman hayati (kehati) dilakukan dengan melakukan restorasi habitat bagi flora dan fauna endemik yang terancam punah maupun kegiatan konservasi dan rehabilitasi lingkungan yang dilakukan oleh semua unit bisnis yang relevan.

Kehati merupakan isu penting dalam pengelolaan lingkungan terutama di SEGS dan SEGD II karena keduanya berdekatan dengan Taman Nasional Gunung Halimun-Salak. Perlindungan terhadap kekayaan hayati kami lakukan melalui restorasi habitat flora dan fauna endemik yang terancam punah. Untuk mempertahankan kehati, kegiatan usaha berupaya untuk meminimalkan tapak kegiatan dari keseluruhan wilayah kerja yaitu antara 2-2,5%, sedangkan sisanya tetap menjadi ekosistem asli.

Biodiversity protection is carried out through habitat restoration for endangered endemic flora and fauna as well as environmental conservation and rehabilitation activities carried out by all relevant business units.

Biodiversity is an important issue in environmental management, especially in SEGS and SEGD II because both are adjacent to Mount Halimun-Salak National Park. We protect biodiversity through habitat restoration for endangered endemic flora and fauna. To maintain biodiversity, business activities seek to minimize their footprint on the entire work area, which is between 2-2.5%, while the rest remains an original ecosystem.



OPERASI OPERATIONS	INDEKS KEHATI FLORA FAUNA SHANNON-WIENER* SHANNON-WIENER FLORA FAUNA BIODIVERSITY INDEX*				FLORA FAUNA KONSERVASI FLORA FAUNA CONSERVATION
	2021	2020	2019	2018	
SEGWWL	2.07	12.46*	12.03	9.92	-
SEGD II	2.91	11.24*	10.50	8.22	Elang jawa (<i>Nisaetus bartelsi</i>) Macan tutul (<i>Panthera pardus melas</i>) Owa Jawa (<i>Hylobates moloch</i>) (IUCN Red List Index dan CITES Appendix I)
SEGS	2.56	3.93*	3.90	3.83	Javan hawk-eagle (<i>Nisaetus bartelsi</i>) Leopard (<i>Panthera pardus melas</i>) Javan gibbon (<i>Hylobates moloch</i>) (IUCN Red List Index and CITES Appendix I)
Chandra Asri**	2.89	2.88	2.85	2.79	Namnam (<i>Cynometra Cauliflora</i>) Rambutan Parakan (<i>Arytera litoralis</i>) (Surat Keputusan Bupati Lebak dan SK Bupati Tangerang) Namnam (<i>Cynometra Cauliflora</i>) Parakan Rambutan (<i>Arytera litoralis</i>) (Lebak Regent's Decree and Tangerang Regent's Decree)

*Data per Juni 2020
Data as of June 2020

**Indeks keberagaman flora saja
Flora diversity index only

KONTRIBUSI KAMI KEPADA SDGs
OUR CONTRIBUTION TO SDGs



BISNIS PETROKIMIA

Chandra Asri melaksanakan berbagai inisiatif untuk melestarikan keanekaragaman hayati melalui kegiatan konservasi dan rehabilitasi, termasuk upaya pelestarian ekosistem Daerah Aliran Sungai (DAS) Cidanau, pelestarian ekosistem mangrove di daerah pesisir, serta transplantasi karang. Total luas konservasi area DAS Cidanau adalah 25.000 m², untuk area mangrove 1.000 m², dan 60 m² area terumbu karang dengan total 83 individu biota laut.

Chandra Asri juga mengelola Taman Kehati Asri yang menjadi habitat tanaman khas Banten dan tanaman musiman yang berfungsi sebagai penyerap karbon. Pada tahun 2021, Chandra Asri menggiatkan pelestarian Namnam (*Cynometra cauliflora L.*) dengan rekayasa teknis dan pengembangbiakan melalui konservasi eks-situ di Taman Kehati Asri.

PETROCHEMICAL BUSINESS

Chandra Asri carries out various initiatives to preserve biodiversity through conservation and rehabilitation activities, including efforts to preserve Cidanau Watershed (DAS) ecosystem, preserve mangrove ecosystems in coastal areas, and coral transplant. The total conservation area of Cidanau watershed is 25,000 m², mangrove area is 1,000 m², and 60 m² for coral reefs with a total of 83 marine biota.

Chandra Asri also manages the Taman Kehati Asri which is a habitat for Banten endemic plants and seasonal plants that function as carbon sinks. In 2021, Chandra Asri is promoting the preservation of Namnam (*Cynometra cauliflora L.*) with technical modification and breeding through ex-situ conservation in Taman Kehati Asri.

BISNIS ENERGI

Di kawasan hutan Gunung Halimun-Salak yang menjadi habitat spesies fauna yang terancam punah yaitu macan tutul, surili, owa jawa, dan kukang, SEGS menginisiasi program *Green Corridor Initiatives* (CGI) yang melibatkan pemangku kepentingan setempat, yaitu restorasi habitat sekitar 270 ha yang berhasil menegaskan batas antara kawasan hutan dan area aktivitas perekonomian masyarakat. SEGS juga mengembangkan program Agrowisata Bhakti Kencana Pamijahan yaitu perhutanan rakyat dengan menanam tanaman produktif di kawasan hutan yang telah rusak, bersama-sama dengan masyarakat di Desa Purwabakti, Kecamatan Pamijahan, Kabupaten Bogor.

SEGS juga melakukan pemberdayaan masyarakat dan kampanye edukasi pentingnya konservasi kepada masyarakat. Salah satu kegiatannya adalah Area Konservasi *Save Bangbung* yang memberdayakan masyarakat untuk membudidayakan bangbung (Bahasa sunda) sejenis kumbang hutan *Lucanid*, alih-alih menangkapnya di hutan sehingga populasinya berkurang karena dihargai tinggi.

Bekerja sama dengan Yayasan KEHATI dan KPH Garut, SEGD II melaksanakan konservasi di area sekitar hutan Papandayan yang meliputi Kawasan Taman Wisata Alam dan Hutan Lindung Papandayan/Darajat di Kabupaten Garut. SEGD II juga melakukan pemantauan satwa dan tanaman endemik yaitu gmelina dan surian. Kegiatan pelestarian kehati juga diintegrasikan dengan pemberdayaan masyarakat dengan pertanian *agroforestry*, misalnya membina kelompok tani di Petak 36 untuk beralih tanam dari palawija menjadi tanaman keras sehingga mengurangi potensi erosi dan meminimalkan penggunaan pestisida dengan pohon surian sebagai pestisida alami.

SEGWWL menggagas program rehabilitasi 'MANG ADE' (*Miara Alam Minangka Adventure Ka Leuweung Puncak Gede*) di hutan Puncak Gede seluas 2 Ha dengan kerja sama dengan PTPN VIII Kebun Kertamanah dan Pangalengan Adventure, program ini dititikberatkan pada edukasi kepada pengunjung dan pesepeda yang berolahraga atau berwisata ke Puncak Gede agar turut melestarikan hutan dan lahan.

ENERGY BUSINESS

In the forest area of Mount Halimun-Salak which is the habitat of endangered fauna species namely leopards, surilis, Javan gibbons, and slow lorises, SEGS initiated the Green Corridor Initiatives (CGI) program involving local stakeholders. The initiative is a habitat restoration of around 270 ha which succeeded in defining the boundaries between forest areas and areas of community economic activity. SEGS also developed the Bhakti Kencana Pamijahan Agrotourism program, namely community forestry by planting productive plants in damaged forest areas, together with the community in Purwabakti Village, Pamijahan District, Bogor Regency.

SEGS also conducts community empowerment and education campaigns on the importance of conservation to the community. One of its activities is the Save Bangbung Conservation Area which empowers the community to cultivate bangbung (Sundanese), a type of Lucanid forest beetle, instead of catching them in the forest and reduced their population because of their high value.

In collaboration with KEHATI Foundation and KPH Garut, SEGD II carries out conservation in the area around Papandayan forest which includes the Nature Park Area and Papandayan/Darajat Protected Forest in Garut Regency. SEGD II also monitors animals and endemic plants namely gmelina and surian. Biodiversity conservation activities are also integrated with community empowerment with agroforestry, such as fostering farmer groups in Petak 36 to switch from secondary crops to hard crops in order to prevent erosion and minimize the use of pesticides using surian trees as natural pesticides.

SEGWWL initiated the 'MANG ADE' (*Miara Alam Minangka Adventure Ka Leuweung Puncak Gede*) rehabilitation program in Puncak Gede forest covering an area of 2 hectares in collaboration with PTPN VIII Kebun Kertamanah and Pangalengan Adventure. This program focuses on educating visitors and cyclists in Puncak Gede to participate in forest and land conservation.

KEPATUHAN LINGKUNGAN

Environmental Compliance

Untuk menjaga komitmen kepatuhan terhadap peraturan perundangan yang berkaitan dengan lingkungan hidup, Perseroan mengelola risiko lingkungan sepanjang siklus bisnis yang dimulai dengan analisis mengenai dampak lingkungan, penyusunan upaya pengelolaan dan pemantauan lingkungan, hingga mendapatkan izin lingkungan yang relevan dengan kegiatan usaha.

PEMANTAUAN DAN EVALUASI

Setiap unit operasional melakukan pemantauan lingkungan secara periodik, dan melaporkan hasil-hasilnya kepada otoritas yang relevan setiap semester. Selama tahun pelaporan, seluruh unit usaha Perseroan tidak melakukan pelanggaran peraturan lingkungan yang berlaku, yang mengakibatkan sanksi administratif maupun denda.

KOMITMEN BEYOND COMPLIANCE

Komitmen *beyond compliance* diwujudkan melalui kegiatan CSR lingkungan dalam rangka memberikan nilai tambah pencapaian visi Perseroan yaitu membangun nilai yang berkelanjutan bagi pemangku kepentingan. Keikutsertaan anak perusahaan dalam Program Penilaian Peringkat Kinerja Perusahaan dalam Pengelolaan Lingkungan (PROPER) yang dilakukan Kementerian Lingkungan Hidup dan Kehutanan merupakan salah satu realisasi komitmen tersebut.

Dalam PROPER 2020-2021, unit usaha Grup Barito Pacific yaitu SEGWWL memperoleh penghargaan kategori tertinggi yaitu peringkat Emas.

To maintain our commitment to comply with environmental laws and regulations, the Company manages environmental risks throughout the business cycle, starting with an analysis of environmental impacts, preparing environmental management and monitoring efforts, to obtaining environmental permits relevant to business activities.

MONITORING AND EVALUATION

Each operational unit conducts periodic environmental monitoring and reports the results to the relevant authorities every semester. During the reporting year, all the Company's business units did not violate applicable environmental regulations which result in administrative sanctions or fines.

BEYOND COMPLIANCE COMMITMENT
















Our beyond compliance commitment is realized through environmental CSR activities to provide added value to the achievement of the Company's vision, which is to build sustainable value for stakeholders. The participation of subsidiaries in the Environmental Management Company Performance Rating Program (PROPER) conducted by the Ministry of Environment and Forestry is one of the realizations of this commitment.

In 2020-2021 PROPER, Barito Pacific Group business unit, SEGWWL, received the highest category award, namely Gold rating.





ENTITAS ANAK PESERTA PROPER
 PROPER PARTICIPATING SUBSIDIARIES

DESKRIPSI Description	2018-2019	2019-2020	2020-2021
Chandra Asri Site Office Pulo Ampel	Hijau Green 	Biru Blue 	Hijau Green 
Chandra Asri Site Office Ciwandan	Biru Blue 	Biru Blue 	Hijau Green 
SEGWWL	Emas Gold 	Emas Gold 	Emas Gold 
SEGS	Emas Gold 	Emas Gold 	Hijau Green 
SEGD II	Hijau Green 	Hijau Green 	Hijau Green 

Pada tahun 2021, Bisnis Energi Perseroan juga memperoleh enam Subroto Award dari Kementerian Energi dan Sumber Daya Mineral (ESDM) yaitu peringkat Aditama sebagai penghargaan tertinggi Penerapan K3 & Keteknikan Panas Bumi bagi SEGS dan SEGD II. Subroto Award merupakan penghargaan di bidang Energi dan Sumber Daya Mineral di Indonesia termasuk komitmen dalam menjaga dan meyakinkan Keselamatan, Kesehatan Kerja, dan Lindung Lingkungan.

In 2021, the Company's Energy Business also received six Subroto Awards from the Ministry of Energy and Mineral Resources, namely Aditama rank as the highest award for the Application of OHS & Geothermal Engineering for SEGS and SEGD II. The Subroto Award is an award in the field of Energy and Mineral Resources in Indonesia, including a commitment to maintaining and ensuring Occupational Safety, Health, and Environmental Protection.



TANGGUNG JAWAB KONSUMEN

Consumer Responsibilities



Perseroan menempatkan pelanggan sebagai salah satu pemangku kepentingan utama. Produk dan jasa yang disediakan oleh anak perusahaan Grup Barito Pacific dimanfaatkan oleh industri serta masyarakat Indonesia dalam kegiatan sehari-hari, sehingga kepercayaan pelanggan dan pengguna produk sangat memengaruhi keberlanjutan usaha Perseroan.

Untuk memenuhi kebutuhan dan harapan pelanggan, Perseroan berkomitmen untuk memberikan layanan terbaik dan bernilai tambah, serta bertanggung jawab penuh atas produk dan jasa yang dihasilkan. Seluruh anak perusahaan memastikan produk dan jasa yang disediakan telah memenuhi peraturan dan persyaratan pelanggan maupun standar-standar produk yang berlaku.

The Company places customers as one of our main stakeholders. The products and services provided by Barito Pacific Group's subsidiaries are used by industries and the Indonesian people in their daily activities, hence the trust of customers and product users greatly affects the Company's business continuity.

To meet customer needs and expectations, the Company is committed to providing the best service and added value and is fully responsible for the products and services produced. All subsidiaries ensure that the products and services provided have complied with regulations and customer requirements as well as applicable product standards.

SISTEM MANAJEMEN MUTU

Quality Management System

Untuk mendukung komitmen Perseroan dalam menyediakan produk dan jasa kepada pelanggan sesuai dengan persyaratan dan standar yang berlaku, anak perusahaan telah menerapkan Standar Nasional Indonesia (SNI) untuk produk dan standar internasional ISO 9001 Sistem Manajemen Mutu yang telah disertifikasi oleh badan sertifikasi.

Hubungan yang baik dengan pelanggan senantiasa dibina untuk mengidentifikasi kebutuhan dan pengembangan produk dan jasa yang dibutuhkan, serta untuk meningkatkan layanan yang telah diberikan.

To support and ensure the Company's commitment to providing products and services to customers in accordance with applicable requirements and standards, the subsidiaries have implemented the Indonesian National Standard (SNI) for products and international standard ISO 9001 Quality Management System which has been certified by a certification body.

Good relationships with customers are continuously fostered to identify their needs and develop the products and services needed, as well as to improve the services that have been provided.

STANDAR INTERNASIONAL SISTEM MANAJEMEN MUTU

INTERNATIONAL STANDARD FOR QUALITY MANAGEMENT SYSTEM

BISNIS BUSINESS	REGISTRAR REGISTRAR	MASA BERLAKU VALIDITY
Petrokimia Petrochemical	Lloyd's Register Quality Assurance Limited (LRQA) untuk ISO 9001:2015	11 Agustus 2023
Chandra Asri	Lloyd's Register Quality Assurance Limited (LRQA) for ISO 9001:2015	August 11, 2023
	Komite Akreditasi Nasional untuk ISO 17025:2017 National Accreditation Committee for ISO 17025:2017	24 April 2024 April 24, 2024

Chandra Asri menghasilkan produk petrokimia berupa bahan baku plastik yang bermanfaat bagi industri dalam proses manufaktur serta menjadi material penting dalam produk yang digunakan konsumen. Seluruh (100%) produk Chandra Asri telah diproduksi dan dikembangkan dengan memenuhi standar kualitas produk, termasuk standar-standar saat produk dimanfaatkan oleh industri untuk membuat produk akhir.

Chandra Asri produces petrochemical products in the form of plastic raw materials that are useful for industries in the manufacturing process as well as being an important material in products used by consumers. All (100%) of Chandra Asri's products have been produced and developed by meeting product quality standards, including standards when the product is used by industries to make final products.



DESKRIPSI DESCRIPTION	STANDAR KUALITAS PRODUK PRODUCT QUALITY STANDARDS
SNI	Sertifikat produk sesuai dengan SNI 7808:2012 untuk Asrene® dari STP-BPPT Product Certificate comply with SNI 7808:2012 for Asrene® from STP-BPPT Sertifikat produk sesuai dengan SNI 0594:2011 untuk Trilene® dari STP-BPPT Product Certificate comply with SNI 0594:2011 for Trilene® from STP-BPPT
Sertifikat Halal Halal Certificate	Sertifikat Halal dari Majelis Ulama Indonesia Halal Certificate from Indonesian Ulema Council Sertifikat bebas dari kandungan bahan berbahaya Certificate of hazardous substance free
Product grade dengan Ecolabel Product grade with Ecolabel	<ol style="list-style-type: none"> 1. Produk <i>High Density Polyethylene</i> (HDPE) tipe SF5008E merek GRENE yang bersifat dapat terurai (<i>degradable</i>) terverifikasi oleh Lembaga Verifikasi Ekolabel (LVE) Balai Besar Pulp dan Kertas High Density Polyethylene (HDPE) type SF5008E degradable product under GRENE brand, verified by the Ecolabel Verification Institute (LVE) of the Center for Pulp and Paper 2. Produk Styrene Monomer dengan kategori klaim reduksi limbah (<i>waste reduction</i>) terverifikasi oleh Badan Pengkajian dan Penerapan Teknologi (LVE-BPPT) Styrene Monomer product with a waste reduction claim category verified by the Agency for the Assessment and Application of Technology (LVE-BPPT) 3. Produk <i>High Density Polyethylene</i> (HDPE), dan High Density Polyethylene (HDPE), and 4. Produk Polypropylene (PP) dengan kategori klaim reduksi limbah (<i>waste reduction</i>) terverifikasi oleh (LVE) Balai Besar Pulp Kertas. Polypropylene (PP) products with a waste reduction claim category verified by the the Center for Pulp and Paper.
Regulasi Regulation	Regulasi internasional mencakup <i>Substances of Very High Concern</i> (SVHC) REACH, <i>Food and Drug Administration</i> (FDA), <i>EU Food Contact, Restriction of Hazardous Substances</i> (RoHS), dan <i>European Pharmacopoeia</i> (EUP) International regulations which include <i>Substances of Very High Concern</i> (SVHC) REACH, <i>Food and Drug Administration</i> (FDA), <i>EU Food Contact, Restriction of Hazardous Substances</i> (RoHS), and <i>European Pharmacopoeia</i> (EUP)

INOVASI PRODUK

Product Innovations

Chandra Asri terus melakukan penelitian dan pengembangan produk-produk petrokimia yang lebih aman dan berkelanjutan, yang dapat dimanfaatkan oleh industri manufaktur dalam negeri untuk berbagai aplikasi produk. Beberapa produk yang dikembangkan Chandra Asri digambarkan sebagai berikut:

Chandra Asri continues to research and develop safer and more sustainable petrochemical products, which can be utilized by the domestic manufacturing industry for various product applications. Some of the products developed by Chandra Asri are described as follows:



POLYETHYLENE UR3750V

Diaplikasikan untuk tangki air, kimia, dan kano karena kuat, tidak beracun, dan tahan cuaca.

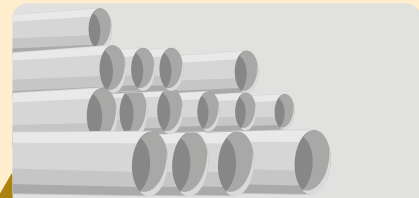
Applied to water tanks, chemicals, and canoes due to its durable, non-toxic, and weather resistant characteristics.



POLYETHYLENE UB5206H

Untuk kemasan makanan karena ringan dan kuat.

For food packaging due to its light and durable characteristics.



POLYETHYLENE SP4808

Untuk pipa jaringan gas, saluran telekomunikasi bawah tanah, dan pipa air.

For gas pipelines, underground telecommunications lines, and water pipelines



UTILIZATION OF UR3840V

Dikembangkan menjadi produk kotak pembawa vaksin COVID-19.

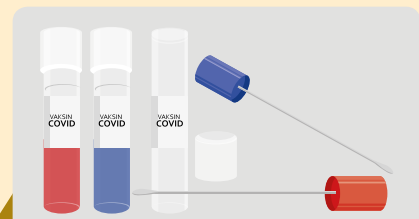
Developed into COVID-19 vaccine carrier box.



POLYETHYLENE UB5502H

Untuk membuat kemasan industri, makanan, dan produk kecantikan.

To manufacture industrial, food, and beauty product packaging.



PP HOMO INJECTION HI10HO

Untuk membuat *flock swab test* pada alat uji PCR COVID-19. Konsorsium Universitas Indonesia dan beberapa industri terkemuka telah dapat memproduksi swab stick dari resin tersebut dengan nama HS19.

To manufacture flock swab test on a COVID-19 PCR test kit. Consortium of the University of Indonesia and several leading industries have been able to produce swab sticks from the resin under the name HS19.

KESELAMATAN KIMIA

Chemical Safety

Keselamatan kimia dan proses merupakan isu krusial anak perusahaan petrokimia yang menggunakan bahan kimia berbahaya sebagai bahan baku dan bahan penolong yang berpotensi menyebabkan cedera dan penyakit bagi orang yang terpapar atau mencemari lingkungan kerja.

EVALUASI KEAMANAN MATERIAL

Seluruh material (100%) yang akan digunakan dalam proses, kami pastikan dengan melakukan peninjauan terhadap *Safety Data Sheet* (SDS) secara komprehensif berdasarkan *Globally Harmonized System* (GHS). Abnormalitas yang ditemukan ditindaklanjuti untuk memastikan material dapat ditangani dengan aman selama proses produksi.

Mulai tahun 2020, sistem ini kami tingkatkan melalui *Abnormality Report Online System* (AROL) untuk memastikan abnormalitas material dan produk yang ditemukan saat proses produksi maupun pemakaian oleh pelanggan telah berkurang.

PENGENDALIAN CHEMICAL OF CONCERN

Merespons perubahan regulasi REACH terkait *Substance of Very High Concern* (SVHC), Perseroan menyatakan bahwa dalam seluruh tahapan pembuatan Asrene® and Trilene® telah sesuai dengan SVHC *European Union Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals* (EU-REACH) *Candidate List of Substances*.

PHASE-OUT CHEMICAL OF CONCERN

Perseroan terus mengembangkan Non-Phthalate Polypropylene dalam rangka memenuhi kebutuhan pelanggan dan peraturan keselamatan terkait produk, dimulai dengan studi komprehensif tentang bahan non-phthalate yang akan digunakan untuk menggantikan yang saat ini digunakan sesuai batasan EU-REACH. Saat ini *phase-out* bahan kimia tertentu dalam pengembangan produk yang berkelanjutan menjadi agenda Perseroan antara lain *phase-out antioxidant tris(nonylphenyl) phosphite* (TNPP) dan penerapan Non-Phthalate pada produk lainnya.

Chemical and process safety is a crucial issue for petrochemical subsidiaries that use hazardous chemicals as raw materials and auxiliary materials which have the potential to cause injury and illness to people who are exposed to or pollute the working environment.

MATERIAL SAFETY EVALUATION

All materials (100%) that will be used in the process are ensured by conducting a comprehensive review of the Safety Data Sheet (SDS) based on the Globally Harmonized System (GHS). Abnormalities found are followed up to ensure materials can be handled safely throughout the production process.

Starting in 2020, we have improved this system through the Abnormality Report Online System (AROL) to ensure that material and product abnormalities found during the production process and customer use have been reduced.

CONTROL OF CHEMICAL OF CONCERN

In response to the changes in REACH regulation regarding Substance of Very High Concern (SVHC), the Company have stated that all manufacturing stages of Asrene® and Trilene® have complied with the SVHC *European Union Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals* (EU-REACH) *Candidate List of Substances*.

PHASE-OUT CHEMICAL OF CONCERN

The Company continues to develop Non-Phthalate Polypropylene to meet customer requirements and product-related safety regulations, starting with a comprehensive study on which non-phthalate materials will be used to replace those currently used within EU-REACH limits. Currently, the phase-out of certain chemicals in developing sustainable products is on the Company's agenda, including the phase-out of antioxidant tris(nonylphenol) phosphite (TNPP) and the application of Non-Phthalate to other products.

KESELAMATAN PRODUK

Product Safety

Chandra Asri menerapkan penatalayanan produk berdasarkan *Responsible Care*[®] sebagai upaya untuk memastikan keselamatan produk dalam keseluruhan daur hidupnya termasuk kepada pelanggan. Keamanan produk dipastikan mulai dari tahapan paling awal yaitu penelitian dan pengembangan.

Penatalayanan produk terdiri dari 7 kode prinsip *Responsible Care*[®] yang merupakan pendekatan komprehensif dalam mengelola bahan kimia di tempat kerja yang meliputi penelitian dan pengembangan, pembuatan, penyimpanan, penggunaan, hingga pengelolaan akhir produk.

Untuk memastikan penerapannya secara efektif dan efisien, Chandra Asri telah membentuk Tim Penatalayanan Produk dari berbagai disiplin keahlian yang bertugas mengelola seluruh aspek penatalayanan produk di setiap tahapan. Tim penatalayanan produk juga melakukan edukasi internal kepada setiap fungsi kerja sebagai sarana berbagi informasi dan *lesson learned*.

Seluruh produk (100%) yang dihasilkan Chandra Asri telah dilengkapi dengan label dan informasi pendukung yang diwajibkan peraturan perundangan yaitu:

- ▶ *Certificate of Analysis* (CoA) dan *Technical Data Sheet* (TDS) yang memuat informasi spesifikasi teknis dan data teknis hasil pengukuran produk;
- ▶ *Safety Data Sheet* (SDS) dan *Regulatory Data Sheet* (RDS) yang memuat informasi tata cara penggunaan, penyimpanan, pembuangan, dan penanganan keadaan darurat produk.

Chandra Asri applies product stewardship based on *Responsible Care*[®] as an effort to ensure product safety throughout its entire life cycle, including for customers. Product safety is ensured starting from the earliest stages, which are research and development.

Product stewardship consists of 7 codes of principles of *Responsible Care*[®] which is a comprehensive approach to managing chemicals in the workplace which includes research and development, manufacture, storage, usage, to final product management.

To ensure its effective and efficient implementation, Chandra Asri has formed a Product Stewardship Team from various expertise that is tasked with managing all aspects of product stewardship at every stage. The Product Stewardship team also conducts internal education for each work function as a means of sharing information and lessons learned.

All products (100%) produced by Chandra Asri are equipped with labels and supporting information required by laws and regulations, namely:

- ▶ *Certificate of Analysis* (CoA) and *Technical Data Sheet* (TDS) containing information on technical specifications and technical data on product measurement results;
- ▶ *Safety Data Sheet* (SDS) and *Regulatory Data Sheet* (RDS) containing information on procedures for using, storing, disposing, and handling product emergencies.

Informasi SDS dan RDS tersedia di website Chandra Asri.

Information on SDS and RDS is available on Chandra Asri's website.

Risiko keselamatan produk timbul pada saat proses manufaktur oleh pelanggan. Sebagai langkah mitigasi, Chandra Asri memberikan edukasi bagaimana menangani produk secara benar dan aman kepada pelanggan untuk mencegah *misuse*.

Product safety risks arise during the manufacturing process by customers. As a mitigation measure, Chandra Asri provides education on proper and safe handling of products to customers to prevent misuse.

Selama tahun pelaporan, tidak terdapat produk yang ditarik kembali dari penjualan atau peredaran, dan tidak terdapat sanksi atas pelanggaran ketentuan label dan informasi keselamatan bahan kimia yang berlaku.

During the reporting year, no products were recalled from sales or distribution, nor sanctions for violations on applicable chemical safety label and information provisions.

PENGELOLAAN PELANGGAN

Customer Management

Perseroan berkomitmen untuk membina hubungan yang saling menguntungkan dengan pelanggan, serta menjaga kepercayaan pelanggan dengan menyediakan produk dan layanan dengan kualitas terbaik.

The Company is committed to fostering mutually beneficial relationships with customers, as well as maintaining customer trust by providing the highest quality products and services.

PENANGANAN KELUHAN PELANGGAN

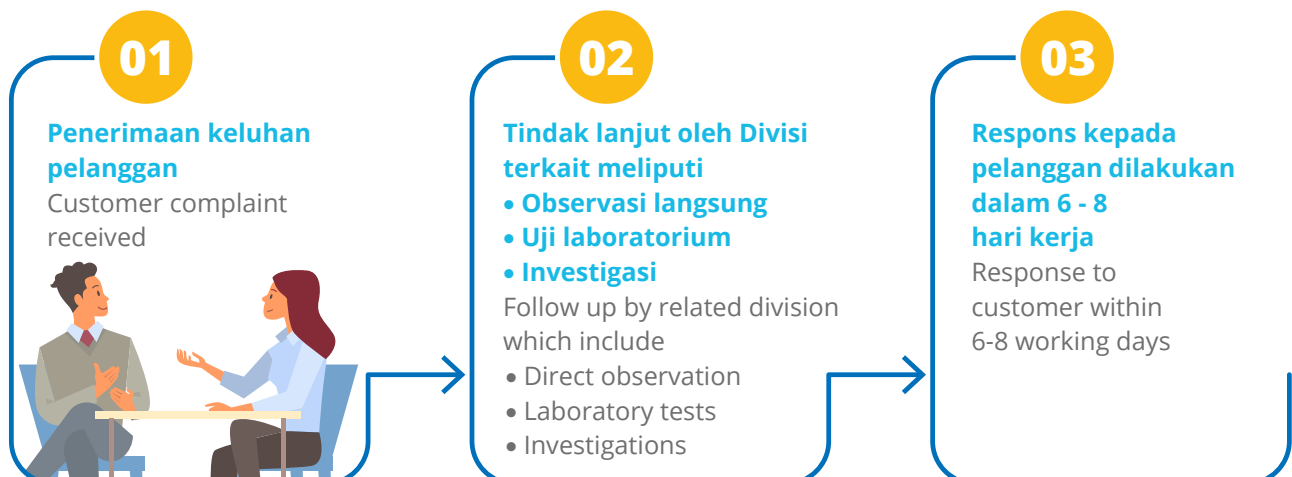
Penerimaan dan penanganan keluhan pelanggan dilakukan oleh masing-masing anak usaha sebagai langkah penyempurnaan layanan dan produk. Setiap keluhan yang diterima akan ditindaklanjuti dengan investigasi oleh departemen yang relevan dan ditetapkan tindakan perbaikan yang sesuai untuk mencegah kejadian berulang.

HANDLING CUSTOMER COMPLAINTS

Each subsidiary receives and handles customer complaints as a measure to improve services and products. Each complaint received will be followed up with an investigation by the relevant department and appropriate corrective actions are established to prevent recurrence.

PROSES TINDAK LANJUT KELUHAN PELANGGAN

CUSTOMER COMPLAINT FOLLOW-UP PROCESS



REKAPITULASI KELUHAN PELANGGAN 2021

2021 CUSTOMER COMPLAINTS SUMMARY

BISNIS Business	JUMLAH PENGADUAN YANG DITINDAKLANJUTI Number of followed-up complaints	JUMLAH PENGEMBALIAN PRODUK Number of products returned
Petrokimia Petrochemical	103	52

KEPUASAN PELANGGAN**Customer Satisfaction**

Sebagai langkah perbaikan produk dan layanan berkelanjutan, anak perusahaan melakukan pengukuran kepuasan pelanggan untuk memastikan produk dan mutu produk yang dihasilkan sesuai dengan kebutuhan pelanggan. Hasil pengukuran yang didapat juga akan dijadikan acuan peningkatan mutu layanan.

As a measure of continuous product and service improvement, the subsidiaries measure customer satisfaction to ensure that the products and their quality are in accordance with customer needs. The measurement results will also be used as a reference for improving service quality.

REKAPITULASI PENGUKURAN KEPUASAN PELANGGAN

CUSTOMER SATISFACTION MEASUREMENT SUMMARY


BISNIS BUSINESS	2021	2020	2019
Petrokimia Petrochemical	82%	82%	81%


INFORMASI BARANG DAN JASA**Information on Goods and Services**

Informasi yang akurat mengenai produk dan layanan Perseroan merupakan hak setiap pemangku kepentingan. Informasi mengenai barang dan jasa Perseroan dapat diakses melalui:

Accurate information regarding the Company's products and services is the right of every stakeholder. Information regarding the Company's goods and services are accessible through:

 <http://www.barito-pacific.com>

 +62 21 530 6711

 +62 21 530 6680

 corpsec@barito.co.id



TATA KELOLA

Governance

STRUKTUR TATA KELOLA [102-18]

Governance Structure

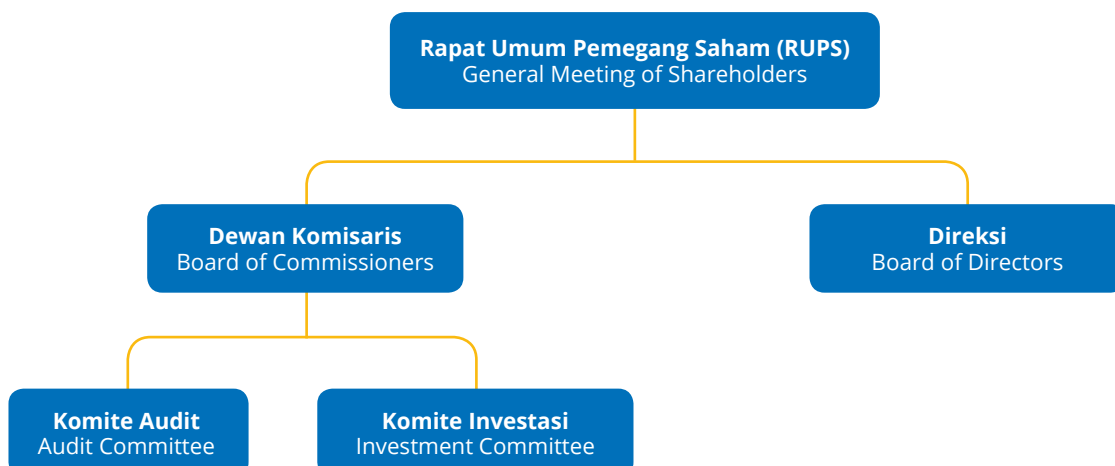


Perseroan menerapkan prinsip tata Kelola perusahaan yang baik (*Good Corporate Governance/ GCG*) sebagai bentuk transparansi dan akuntabilitas untuk meningkatkan kepercayaan pemangku kepentingan serta memberikan kinerja jangka panjang yang baik.

Praktik GCG dilakukan secara struktural, di mana masing-masing organ tata kelola memiliki peran, fungsi, dan tanggung jawab tersendiri. Seluruh organ tata kelola wajib melaksanakan tugas dan tanggung jawabnya dengan mengacu pada peraturan perundang-undangan yang berlaku, Peraturan Perusahaan, serta pedoman-pedoman tata kelola lainnya.

The Company implements Good Corporate Governance (GCG) as a form of transparency and accountability to increase stakeholder trust and provide and better long-term performance.

The implementation of GCG practices is carried out structurally, where each governance organ has its own role, function, and responsibility. All governance organs are required to carry out their duties and responsibilities with reference to the applicable laws and regulations, Company Regulations, and other governance guidelines.



RAPAT UMUM PEMEGANG SAHAM

Rapat Umum Pemegang Saham (RUPS), yang merupakan wadah bagi pemegang saham untuk menetapkan arah perkembangan usaha Perseroan, memiliki wewenang tertinggi dalam struktur tata kelola Perseroan. RUPS juga menjadi tempat bagi Dewan Komisaris dan Direksi untuk menyampaikan laporan pertanggungjawaban seluruh kegiatan yang dilaksanakan sepanjang tahun buku kepada pemegang saham. Keputusan RUPS dibuat berdasarkan prinsip kewajaran dan transparansi sesuai dengan ketentuan Anggaran Dasar Perseroan serta peraturan dan perundangan yang berlaku.

DEWAN KOMISARIS

Dewan Komisaris bertanggung jawab untuk memastikan penerapan praktik GCG di Perseroan berjalan dengan baik, serta memberikan nasihat kepada Direksi terkait pelaksanaan kegiatan operasional Perseroan. Dalam melaksanakan tugasnya, Dewan Komisaris dibantu oleh Komite Audit dan Komite Investasi. Dewan Komisaris wajib bertindak secara independen dan profesional serta mengutamakan kepentingan Perseroan dalam melaksanakan tugasnya untuk mencegah terjadinya benturan kepentingan.

GENERAL MEETING OF SHAREHOLDERS

General Meeting of Shareholders (GMS) as a medium for shareholders to determine the direction of the Company's business development, is the highest authority within the Company's governance structure. The GMS is also a place for the Board of Commissioners and the Board of Directors to report its accountability on the activities carried out during the fiscal year to shareholders. Decisions in the GMS are made based on the principles of fairness and transparency in accordance with the Company's Article of Association and the prevailing laws and regulations.

BOARD OF COMMISSIONERS

The Board of Commissioners is responsible for ensuring the implementation of GCG practices in the Company, as well as advising the Board of Directors regarding the Company's operational activities. In carrying out its functions, the Board of Commissioners is supported by the Audit Committee and the Investment Committee. The Board of Commissioners must act independently and professionally and to prioritize the Company's interest in performing its duties to prevent any conflict interest.

SUSUNAN DEWAN KOMISARIS PER 31 DESEMBER 2021

COMPOSITION OF THE BOARD OF COMMISSIONERS AS OF DECEMBER 31, 2021

Prajogo Pangestu

Komisaris Utama | President Commissioner

Lim Chong Thian

Komisaris Utama | President Commissioner

Henky Susanto

Komisaris Independen | Independent Commissioner

Salwati Agustina

Komisaris Independen | Independent Commissioner

DIREKSI

Direksi bertanggung jawab untuk mengelola kegiatan operasional Perseroan, dan memastikan bahwa seluruh kegiatan usaha yang dilakukan sesuai dengan maksud dan tujuan Perseroan. Direksi berwenang untuk mewakili Perseroan di dalam maupun di luar pengadilan sebagaimana diatur dalam Anggaran Dasar Perseroan dan peraturan perundangan yang berlaku.

BOARD OF DIRECTORS

The Board of Directors is responsible for managing the Company's operations and ensuring that all business activities are carried out in line with the Company's goals and objectives. The Board of Directors is authorized to represent the Company both inside and outside the court as stipulated in the Company's Articles of Association and the applicable laws and regulations.

SUSUNAN DIREKSI SEJAK 1 JANUARI HINGGA 31 DESEMBER 2021

COMPOSITION OF THE BOARD OF DIRECTORS SINCE JANUARY,1 TO DECEMBER 31, 2021

Agus Salim Pangestu

Direktur Utama | President Director

Rudy Suparman

Wakil Direktur Utama | Vice President Director

David Raimond Sulaiman

Direktur | Director

Diana Arsiyanti

Direktur | Director

David Kosasih

Direktur | Director

Terdapat perubahan dalam komposisi Direksi per 31 Desember 2021 sehubungan dengan pengunduran diri Bapak David Raimond Sulaiman efektif pada 31 Desember 2021. Komposisi Direksi Perseroan sesudah perubahan adalah sebagai berikut:

There were changes to the composition of the Board of Directors as of December 31, 2021 due to the resignation of Mr. David Sulaiman effective on December 31, 2021. The composition of the Company's Board of Directors after the change is as follows:

SUSUNAN DIREKSI SEJAK 1 JANUARI HINGGA 31 DESEMBER 2021

COMPOSITION OF THE BOARD OF DIRECTORS SINCE JANUARY,1 TO DECEMBER 31, 2021

Agus Salim Pangestu

Direktur Utama | President Director

Rudy Suparman

Wakil Direktur Utama | Vice President Director

Diana Arsiyanti

Direktur | Director

David Kosasih

Direktur | Director

Rincian pelaksanaan tugas, tanggung jawab, dan wewenang RUPS, Dewan Komisaris, dan Direksi dapat dilihat pada Laporan Tahunan Barito Pacific 2021 bagian Tata Kelola Perusahaan.

Details of the implementation of duties, responsibilities, and authorities of the GMS, the Board of Commissioners, and the Board of Directors can be found in the Corporate Governance section of the 2021 Barito Pacific Annual Report.

INDEPENDENSI BADAN TATA KELOLA

Per 31 Desember 2021, Perseroan memiliki (dua) orang Komisaris Independen (50%).

INDEPENDENCE OF THE GOVERNANCE BODY

As of December 31, 2021, the Company has 2 (two) Independent Commissioners (50%).

PENGEMBANGAN KOMPETENSI BADAN TATA KELOLA

Anggota badan tata kelola mengembangkan kompetensi masing-masing dengan mengikuti pelatihan dan seminar yang relevan dengan pelaksanaan tugas dan tanggung jawabnya, serta mencakup isu-isu terkini dalam pengelolaan aspek Lingkungan, Sosial, dan Tata Kelola (LST) Perseroan.

COMPETENCY DEVELOPMENT OF THE GOVERNANCE BODIES

Members of the governance body develop their respective competencies by trainings and seminars that are relevant to the implementation of their duties and responsibilities, and cover the latest issues in the Company's Environmental, Social, and Governance (ESG) management.

MANAJEMEN RISIKO

Risk Management



Perseroan melaksanakan manajemen risiko dengan membentuk Unit Manajemen Risiko dengan melibatkan berbagai divisi terkait, yang bertanggung jawab untuk mengidentifikasi risiko yang berpotensi timbul dan berdampak bagi keberlanjutan usaha, serta merancang langkah mitigasi yang efektif akan risiko tersebut.

Budaya sadar risiko senantiasa ditanamkan pada setiap karyawan sehingga mereka dapat berkontribusi dalam pengelolaan risiko dan memberikan masukan penting dalam pengambilan keputusan.

Perseroan mengklasifikasikan risiko ke dalam risiko langsung; yang dihadapi sebagai entitas induk, dan risiko tidak langsung; yang muncul dari kegiatan operasional anak usaha, termasuk risiko Lingkungan, Sosial, dan Tata Kelola (LST).

The Company carries out risk management by establishing a Risk Management Unit involving various related divisions, which are responsible for identifying potential risks that may have an impact on business continuity, as well as design effective mitigation measures for the identified risks.

Risk awareness culture is instilled in every employee so that they can contribute to risk management and provide important input in decision making.

The Company classifies risks into direct risks; which are faced as a parent company, and indirect risks; which arise in subsidiaries' operational activities, including Environmental, Sosial, and Governance (ESG) risks.

RISIKO LINGKUNGAN, SOSIAL, DAN TATA KELOLA YANG DIKELOLA

MANAGED ENVIRONMENTAL, SOCIAL, AND GOVERNANCE RISKS

	JENIS RISIKO* RISK PROFILE*	MITIGASI MITIGATION
RISIKO HUKUM	Kelemahan aspek yuridis yang disebabkan oleh tuntutan hukum atau tidak tersedianya undang-undang yang mendukung berpotensi menimbulkan sengketa atau perkara hukum yang mungkin melibatkan Perseroan dan entitas anak dengan pihak ketiga. Apabila sengketa atau perkara hukum tersebut terjadi, kegiatan usaha dan pencapaian target sangat dapat terpengaruh.	Perseroan menggunakan jasa pengacara Perseroan untuk mengatasi adanya sengketa atau perkara hukum yang melibatkan Perseroan dan entitas anak dengan pihak ketiga.
LEGAL RISK	Judicial issues concerning lawsuits or absence of favorable laws the potential to cause disputes or legal cases that may involve the Company and its subsidiaries as well as third parties. The occurrence of such dispute or legal issue may severely affect the business activity and target achievement.	The Company uses the service of a corporate legal counsel to resolve any disputes or legal cases between the Company its subsidiaries and third parties.
RISIKO SOSIAL DAN LINGKUNGAN	Kegiatan usaha Perseroan dan entitas anak usaha rentan memiliki dampak negatif terhadap aspek sosial dan lingkungan sekitar.	Perseroan dan entitas anak senantiasa berupaya mematuhi peraturan lingkungan dan tata cara berusaha yang berlaku untuk mengurangi dampak sosial dan lingkungan yang timbul dari kegiatan usahanya.
SOCIAL AND ENVIRONMENTAL RISK	The business activities of the Company and its subsidiaries may have negative social and environmental impacts.	The Company and its subsidiaries constantly strive to comply with the prevailing environmental regulations and procedures to mitigate the social and environmental impacts of their business activities.

*Jenis-jenis risiko yang disebutkan di atas adalah sebagian dari jenis-jenis risiko yang dikelola Perseroan, informasi lengkap mengenai jenis, penjelasan, dan upaya mitigasi risiko dapat dibaca dalam Laporan Tahunan Barito Pacific 2021 bagian Manajemen Risiko.

*The type of risks mentioned above are some of the risks managed by the Company. Further information on the types, explanation, and the Company's risk mitigation measures can be found in Risk Management section of the 2021 Barito Pacific Annual Report

Untuk memastikan manajemen risiko berjalan dengan baik, Perseroan memiliki Unit Audit Internal yang bertanggung jawab untuk melakukan penilaian independen terkait efektivitas manajemen risiko dan kegiatan pengendalian internal lainnya melalui aktivitas audit dan konsultasi. Kegiatan audit dilakukan dengan pendekatan berbasis risiko, sesuai dengan standar yang ditentukan oleh Institute of Internal Auditors (IIA) dan Committee of Sponsoring Organizations of the Treadway Commission (COSO).

To ensure the effectiveness of risk management, the Company has an Internal Audit Unit responsible for conducting independent assessments regarding the effectiveness of risk management and other internal control activities through auditing and consulting activities. Audit activities are carried out using a risk-based approach, in accordance with the standards set by the Institute of Internal Auditors (IIA) and the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

ETIKA DAN INTEGRITAS

Ethics and Integrity



Perseroan memiliki Kode Etik Perusahaan sebagai pedoman tata perilaku yang berlaku secara universal bagi karyawan di seluruh jenjang jabatan dan level organisasi baik secara moral maupun profesional di lingkungan Perseroan. Pokok-pokok kode etik Perseroan mencakup profesionalisme, rasa hormat dalam bersikap dan bekerja dengan seluruh pihak, serta kejujuran.

Kode Etik Perseroan memiliki keterkaitan langsung dengan Budaya Perseroan, yaitu GROW yang berarti Tumbuh. Budaya Perseroan juga merupakan landasan setiap karyawan dalam melakukan pekerjaan.

The Company has a Code of Conduct that is universally applicable to employees at all organizational levels, both morally and professionally within the Company. The main points of the Company's code of conduct include, professionalism, respect in behaving and working with all parties, as well as honesty.

The Company's Code of Conduct has a direct link with the Company Culture, namely GROW. The Company Culture is also the foundation of every employee performance.



Perseroan mensosialisasikan Kode Etik dan Budaya Perseroan secara rutin melalui berbagai saluran komunikasi, publikasi, serta pertemuan yang dapat menjangkau seluruh karyawan di lingkungan Perseroan.

Perseroan akan mengenakan sanksi bagi karyawan yang terbukti melanggar Kode Etik atau Budaya Perseroan sesuai dengan peraturan perusahaan dan peraturan perundangan yang berlaku. Sepanjang periode pelaporan, tidak terdapat pelanggaran kode etik yang terjadi di lingkungan Perseroan.

SISTEM PELAPORAN PELANGGARAN

Perseroan memiliki sistem pelaporan pelanggaran sebagai sarana bagi pemangku kepentingan untuk menyampaikan pelaporan atau pengaduan atas dugaan tindakan pelanggaran hukum dan/atau perbuatan tidak etis.

Pengaduan dapat disampaikan melalui saluran komunikasi berikut ini:

Saluran pelaporan pelanggaran di situs web Perseroan;	Kotak pelaporan pelanggaran di lingkungan Perseroan;	Email: whistleblower@barito.co.id	Email kepada Sekretaris Perusahaan (corpsec@barito.co.id)
Whistleblower channel in the Company's website;	Whistleblower dropboxes in the Company's premises;	Email: whistleblower@barito.co.id;	Mail to the Corporate Secretary (corpsec@barito.co.id)

Perseroan akan melindungi identitas pelapor, dan seluruh laporan yang telah dilengkapi dengan bukti-bukti yang dapat dipertanggungjawabkan akan ditindaklanjuti. Perseroan juga melakukan evaluasi untuk mencegah terjadinya pelanggaran yang sama. Sepanjang periode pelaporan, Perseroan tidak menerima dan menemukan kasus pelanggaran melalui sistem pelaporan pelanggaran.

The Company regularly disseminates the Company's Code of Conduct and Culture through various communication channels, publications, and meetings that can reach all employees within the Company.

The Company will impose sanctions on employees who are proven to have violated the Company's Code of Conduct or Culture in accordance with the company regulations and applicable laws and regulations. Throughout the reporting period, there were no violations of the code of ethics occurred within the Company.

WHISTLEBLOWER POLICY

The Company has a whistleblower policy as a means for stakeholders to submit reports or grievances on alleged violations of the and/or unethical acts.

Grievances can be submitted through:

The Company will protect the identity of the whistleblower, and all reports with accountable supporting evidence will be followed up. The Company also conducts evaluations to prevent recurring violations. Throughout the reporting period, the Company did not receive and find cases of violations through the whistleblower system.

PELIBATAN PEMANGKU KEPENTINGAN

Stakeholder Engagement



Sebagai *holding company*, pemangku kepentingan Perseroan terutama adalah pihak-pihak yang berkaitan dengan dampak investasi, pengembangan usaha, dan keberlanjutan jangka panjang. Perseroan mengidentifikasi pemangku kepentingan berdasarkan pengaruh dan dampaknya pada isu-isu keberlanjutan.

As a holding company, the Company's stakeholders are mainly those related to impact of investment, business development, and long-term sustainability. The Company identifies stakeholders based on their influence and impact on sustainability issues.

Kelompok pemangku kepentingan Stakeholder groups	Tuntutan dan harapan Demands and expectations	Metode pelibatan Engagement method	Frekuensi Frequency
Pemegang Saham	Pertumbuhan berkelanjutan dan pelaksanaan tata kelola perusahaan yang baik	Rapat Umum Pemegang Saham (RUPS) dan RUPS Luar Biasa <i>Public Exposure</i> Laporan Triwulan dan Tahunan Laporan Keberlanjutan Fungsi Sekretaris Perseroan dan <i>Investor Relation</i>	Triwulan dan Tahunan
Shareholders	Sustainable growth and implementation of good corporate governance	General Meeting of Shareholders (GMS) and Extraordinary General Meeting of Shareholders Public Exposure Quarterly and Annual Reports Sustainability Report Functions of the Corporate Secretary and Investor Relations	Quarterly and Annually

TATA KELOLA GOVERNANCE

Kelompok pemangku kepentingan Stakeholder groups	Tuntutan dan harapan Demands and expectations	Metode pelibatan Engagement method	Frekuensi Frequency
Mitra usaha	Manfaat finansial dan peluang pengembangan usaha yang berkelanjutan	Rapat Umum Pemegang Saham (RUPS) dan RUPS Luar Biasa Pertemuan terkait keputusan operasi dan pengembangan usaha	Setiap saat diperlukan
Business partner	Financial benefits and opportunities for sustainable business development	General Meeting of Shareholders (GMS) and Extraordinary General Meeting of Shareholders Meetings related to operational decisions and business development	When needed
Karyawan	Manfaat dan pengembangan karier	Forum-forum hubungan dengan karyawan dan hubungan industrial	Setiap 6 bulan
Employees	Career benefits and development	Forum discussions related to employment relations and industrial relations	Every 6 months
Masyarakat	Pengembangan masyarakat dan manfaat kehadiran Perseroan di tengah masyarakat secara moneter maupun non moneter	Pelibatan dalam program tanggung jawab sosial dan lingkungan	Selama pelaksanaan program
Community	Community development and the benefits on the Company's presence in the community, both monetary and non-monetary	Involvement in social and environmental responsibility program	During program implementation
Perguruan tinggi dan organisasi masyarakat sipil	Kerja sama pengembangan masyarakat	Pelibatan dalam program tanggung jawab sosial dan lingkungan	Selama pelaksanaan program
Universities and civil society organizations	Community development collaboration	Involvement in social and environmental responsibility programs	During program implementation

PELUANG DAN TANTANGAN KEBERLANJUTAN

Sustainability Challenges and Opportunities



Sepanjang tahun 2021, pandemi COVID-19 merupakan tantangan yang berdampak signifikan dalam berbagai aspek kehidupan, tidak terkecuali terhadap bisnis yang dijalankan Barito Pacific. Sebagai perusahaan energi dan petrokimia terbesar di Indonesia, Perseroan memiliki peran penting dalam mendukung pertumbuhan ekonomi nasional. Perseroan memasok energi dan bahan baku yang dibutuhkan oleh berbagai industri lokal dan masyarakat.

Dengan adanya pandemi yang berisiko menghambat keberlangsungan usaha Perseroan dan berdampak pada industri lokal, Perseroan berupaya mengatasi tantangan tersebut dengan merumuskan strategi bisnis yang tepat agar tetap tangguh dan adaptif dalam menghadapi berbagai kemungkinan yang akan terjadi di masa mendatang. Lebih jauh, Perseroan akan memanfaatkan peluang bisnis yang muncul seiring dengan harapan pemulihan yang terlihat dengan tersedianya vaksin COVID-19 bagi masyarakat.

Perseroan akan melaksanakan upaya tersebut dengan tetap menempatkan kesehatan dan keselamatan karyawan, serta meminimalkan jejak lingkungan, sebagai prioritas utama.

To this day, the COVID-19 pandemic is a challenge that has had a significant impact on various aspects of life, with no exception to the business run by Barito Pacific. As the largest energy and petrochemical company in Indonesia, the Company has an essential role to play in supporting national economic growth. The Company provides energy and supplies raw materials needed by various local industries and the public.

With the pandemic having a risk of putting a halt on the Company's business continuity and ultimately affects other local industries, the Company seeks to overcome these challenges by formulating the correct business strategy to remain resilient and adaptive in facing various possibilities that may occur in the future. Furthermore, the company will seize business opportunities which arise along with hopes of recovery seen with the availability of COVID-19 vaccines for the community.

The Company will carry out this effort while simultaneously placing the health and safety of employees, as well as minimizing our environmental footprint, as the top priority.



TENTANG LAPORAN KEBERLANJUTAN

About Sustainability Report

TENTANG LAPORAN KEBERLANJUTAN

About Sustainability Report

Laporan Keberlanjutan Barito Pacific menyajikan informasi kinerja lingkungan, sosial, dan tata kelola (LST) yang meliputi komitmen, kebijakan, program, inisiatif, dan pencapaian di bidang-bidang tersebut. Laporan ini juga merupakan pelaksanaan komitmen Perseroan dalam penerapan prinsip tanggung jawab dan akuntabilitas dalam tata kelola perusahaan yang baik serta pelaksanaan kewajiban sebagai perusahaan publik, khususnya POJK-51/2017.

Barito Pacific Sustainability Report presents information on environmental, social and governance (ESG) performance which includes commitments, policies, programs, initiatives and achievements in these areas. This report is also an implementation of the Company's commitment in implementing the principles of responsibility and accountability in good corporate governance and the implementation of its obligations as a public company, particularly POJK-51/2017.



Data dan informasi yang dicakup dalam laporan ini meliputi kinerja sosial dan lingkungan Perseroan tahun 2021 yang meliputi induk perusahaan dan entitas anak yaitu PT Chandra Asri Petrochemical Tbk, Star Energy Geothermal (Unit Wayang Windu, Salak, dan Darajat) dan PT Griya Idola, yang mewakili portofolio bisnis utama Perseroan dan memiliki dampak penting terhadap lingkungan dan sosial. Data finansial yang dicantumkan dalam laporan ini merupakan data yang telah diaudit yang meliputi induk perusahaan dan entitas anak.

Laporan ini memuat persyaratan dalam Standar GRI dan Peraturan Otoritas Jasa Keuangan Nomor 51/POJK.03/2017 tentang Penerapan Keuangan Berkelanjutan bagi Lembaga Jasa Keuangan, Emiten, dan Perusahaan Publik - Lampiran-II (POJK-51/2017). Referensi Standar GRI dan POJK-51/2017 dapat dilihat di bagian akhir laporan ini. Laporan ini belum diperiksa oleh pemeriksa eksternal, namun informasi yang ada di dalamnya diperiksa kebenarannya oleh tim internal Perseroan. Tidak terdapat data atau informasi yang dinyatakan ulang dari laporan sebelumnya.

Anda dapat menghubungi kami untuk memperoleh informasi lebih jauh atau pertanyaan terkait dengan laporan keberlanjutan ini melalui:

The data and information included in this report covers the Company's social and environmental performance in 2021 which includes the parent company and its subsidiaries, namely PT Chandra Asri Petrochemical Tbk, Star Energy Geothermal (Unit Wayang Windu, Salak and Darajat) and PT Griya Idola, all represents the main business portfolio of the Company and has a significant environmental and social impact. The financial data included in this report is audited and covers the parent company and subsidiaries.

This report contains the requirements of GRI Standards and Financial Services Authority Regulation No 51/POJK.03/2017 on the implementation of sustainable finance for financial services institutions, issuers and public companies-Annex II (POJK-51/2017). GRI and POJK-51/2017 Standard Reference can be found at the end of this report. This report has not been examined by an external examiner, but the information contained therein is checked for accuracy by the Company's internal team. There are no restatement of data and information from the previous report.

For further information or inquiries related to this sustainability report, you can contact us at:

Bagian Corporate Secretary
Corporate Secretary

Wisma Barito Pacific II
Jl. Let. Jend. S. Parman Kav. 60
Jakarta Barat, 11410

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Faximile : (62-21) 530 6680
Website : www.barito-pacific.com
Email : corpsec@barito.co.id

PROFIL PERUSAHAAN [102-1, 2, 3, 4, 5, 6, 7, 9, 10]

Company Profile

NAMA ORGANISASI ORGANIZATION NAME

PT Barito Pacific Tbk

KEGIATAN USAHA YANG DIJALANKAN PADA TAHUN BUKU BUSINESS ACTIVITIES CONDUCTED IN THE FISCAL YEAR

Kegiatan usaha yang dijalankan oleh Perseroan telah diatur dalam Anggaran Dasar Perseroan terakhir, sebagaimana tertuang dalam Akta Notaris tanggal 19 Juli 2019. Berdasarkan Anggaran Dasar tersebut, Perseroan, baik secara langsung maupun melalui entitas anak, melaksanakan kegiatan usaha di bidang kehutanan, perkebunan, pertambangan, industri, properti, perdagangan, energi terbarukan, dan transportasi dan aktivitas perusahaan *holding*.

Pada tahun buku 2021, melalui entitas anaknya, Perseroan menghasilkan sejumlah produk dan jasa, bahan baku industri plastik, baik di sektor hulu (Ethylene, Propylene, PyGas, dan mixed C4) dan sektor hilir (Polyethylene, Polypropylene, Styrene Monomer, Butadiene, MTBE dan Butene-1), pembangkit listrik tenaga panas bumi, penyewaan gedung perkantoran serta perhotelan, dan lain sebagainya.

The Company's business activities are regulated in the latest Articles of Association, as stipulated in the Notarial Deed dated July 19, 2019. In accordance with the Articles of Association, the Company, either directly or through its subsidiaries, carries out business activities in the fields of forestry, plantation, mining, property, trade, renewable energy, transportation, and the activities of the holding company.

In 2021 fiscal year, the Company through its subsidiaries produced a number of products and services, plastic industry raw materials, both in the upstream sector (Ethylene, Propylene, PyGas, and mixed C4) and the downstream sector (Polyethylene, Polypropylene, Styrene Monomer, Butadiene, MTBE and Butene-1), geothermal power plant, rental of office buildings and hotels, and others.

LOKASI KANTOR PUSAT HEAD OFFICE LOCATION

Wisma Barito Pacific II
Jl. Let. Jend. S. Parman Kav. 60
Jakarta Barat, 11410

Telepon/Phone: +62 21 5036711
Faksimile/Facsimile: +62 21 5306680
Alamat Surat Elektronik/Email Address:
corpsec@barito.co.id
Alamat Situs Web/Website:
www.barito-pacific.com

WILAYAH OPERASIONAL
LOCATION OF OPERATIONS

Negara tempat operasi: 1 (satu) – Indonesia
Countries of operation: 1 (one) - Indonesia

KEPEMILIKAN DAN BENTUK HUKUM
OWNERSHIP AND LEGAL FORM

Sifat Kepemilikan
Nature of Ownership

Perusahaan Modal Dalam Negeri
Domestic Capital Company

Badan Hukum
Legal Entity

Perseroan Terbatas
Limited Liability Company

PASAR YANG DILAYANI
MARKETS SERVED

Perseroan melalui anak perusahaan menyediakan produk dan jasa di Indonesia untuk pasar sebagai berikut
The Company through its subsidiaries provides products and services in Indonesia to the following markets

Jenis produk dan jasa Types of products and services	Sektor yang dilayani Sectors served	Jenis pelanggan Types of customers
Bahan baku industri plastik Plastic industry raw materials	Swasta Private	Industri Industry
Pembangkit listrik tenaga panas bumi Geothermal power plant	Publik Public	Perusahaan Listrik Negara State Electricity Company
Properti Property	Swasta dan publik Private and public	Komersial dan individual Commercial and individual

RANTAI PASOKAN DAN PERUBAHAN SIGNIFIKAN PADA ORGANISASI DAN RANTAI PASOKAN
SUPPLY CHAIN AND SIGNIFICANT CHANGES TO THE ORGANIZATION AND SUPPLY CHAIN

Rantai pasokan Perseroan hanya mencakup produk dan jasa pendukung kegiatan perkantoran sedangkan rantai pasokan anak perusahaan dijelaskan dalam Laporan Keberlanjutan masing-masing.

The Company's supply chain only includes products and services in supporting office activities, while the subsidiaries' supply chains are explained in their respective Sustainability Reports.

Tidak ada perubahan pada rantai pasokan Perseroan dibandingkan tahun sebelumnya.

There are no changes in the Company's supply chain compared to the previous year.

KEANGGOTAAN ASOSIASI [102-13]

ASSOCIATION MEMBERSHIP

ASOSIASI Association	PERAN BARITO PACIFIC Barito Pacific's Role
Asosiasi Emiten Indonesia Indonesian Publicly Listed Companies Association	Anggota Member
UN Global Compact	Anggota Member
Indonesia Corporate Secretary Association	Anggota Member

SKALA USAHA

Business Scale

JUMLAH KEGIATAN USAHA

NUMBER OF BUSINESS ACTIVITIES

DESKRIPSI Description	2021	2020	2019
Perusahaan Induk Parent Company	1	1	1
Entitas Anak dan Entitas Asosiasi Subsidiaries and Associated Companies	34	42	52

SKALA ORGANISASI

ORGANIZATIONAL SCALE

DESKRIPSI Description		2021	2020	2019
Pendapatan (dalam US\$ ribu) Revenue (in US\$ thousand)	Pendapatan Bersih Net Revenue	3,155,656	2,334,170	2,402,466
	Beban Pokok Pendapatan dan Beban Langsung Cost of Revenue and Direct Costs	2,370,805	1,750,773	1,823,015
Kapitalisasi (dalam US\$ ribu) Capitalization (in US\$ thousand)	Jumlah Aset Total Assets	9,241,551	7,689,555	7,182,435
	Jumlah Liabilitas Total Liabilities	4,974,476	4,732,198	4,426,628
	Jumlah Ekuitas Total Equity	4,267,075	2,957,357	2,755,807

KOMPOSISI KEPEMILIKAN SAHAM PER 31 DESEMBER 2021

COMPOSITION OF SHAREHOLDING AS PER 31 DECEMBER 2021:

No.	PEMEGANG SAHAM Shareholders	JUMLAH LEMBAR SAHAM Total Shares	PERSENTASE KEPEMILIKAN Ownership Percentage
Pemegang saham yang memiliki 5% (lima persen) atau lebih saham Shareholders who own 5% of shares or more			
1	PRAJOGO PANGESTU	66.415.914.470	70,85%
Pemegang saham yang memiliki kurang dari 5% (lima persen) saham Shareholders who own less than 5% of shares			
2	BANGKOK BANK PCL	4.658.089.500	4,97%
3	HSBC LTD-SINGAPORE BRANCH PRIVATE BANKING	3.263.362.500	3,48%
4	CREDIT SUISSE AG, SINGAPORE TRUST ACCOUNT CLIENTS	2.594.389.822	2,77%
5	DBS VICKERS SECS SINGAPORE (PTE) LTD A/C CLIENTS	1.806.600.000	1,93%
6	BARITO PACIFIC LUMBER	1.127.631.500	1,20%
7	DBS BANK LTD SG-PB CLIENTS	1.170.936.455	1,25%
8	UOB KAY HIAN PTE LTD	824.863.150	0,88%
9	HSBC SINGAPORE BRANCH PRIVATE BANKING DIVISION	565.000.000	0,60%
10	BANK OF SINGAPORE LIMITED	521.351.600	0,56%
11	Masyarakat / Public*	10.799.079.047	11,52%
TOTAL		93.747.218.044	100%

* Terdiri dari pemegang saham yang masing-masing memiliki kurang dari 5% (lima persen) saham
Consists of shareholders who own less than 5% of shares

INFORMASI MENGENAI KARYAWAN DAN PEKERJA LAIN [[102-8]]**Information on employees and other workers**

KOMPOSISI KARYAWAN BERDASARKAN USIA Employee Composition by Age	2021	2020
<29 tahun <29 years old	627	656
30-39 tahun 30-39 years old	762	1.013
40-49 tahun 40-49 years old	964	754
>50 tahun >50 years old	691	705
RPU	82	90
Total	3.044	3.218

*) di luar RPU | exclude RPU

KOMPOSISI KARYAWAN BERDASARKAN PENDIDIKAN Employee Composition by Education	2021	2020
Sarjana (S1/S2/S3) Bachelor (S1/S2/S3)	1.471	1.476
Sarjana Muda (D1/D2/D3) Diploma (D1/D2/D3)	513	533
SMA dan Sederajat Senior High School and Equivalents	1.006	1.060
SD dan SMP Elementary and Junior High School	54	59
RPU	82	90
Total	3.044	3.218

*) di luar RPU | exclude RPU

KOMPOSISI KARYAWAN BERDASARKAN JABATAN Employee Composition by Position	2021	2020
Direktur Director	30	20
Manajemen Senior Senior Management	9	15
Manajer Manager	270	251
Pelaksana Staff	2.735	2.842
RPU	82	90
Total	3.044	3.218

*) di luar RPU | exclude RPU

KOMPOSISI KARYAWAN BERDASARKAN STATUS KEPEGAWAIAN Employee Composition by Employment Status	2021	2020
Karyawan Tetap Permanent Employee	2.768	2.914
Karyawan Tidak Tetap Contractual Employee	276	214
RPU	82	90
Total	3.044	3.218

*) di luar RPU | exclude RPU

KOMPOSISI KARYAWAN BERDASARKAN JENIS KELAMIN Employee Composition by Gender	2021	2020
Pria Male	2.577	2.636
Wanita Female	467	492
RPU	82	90
Total	3.044	3.218

*) di luar RPU | exclude RPU



PENETAPAN ISI LAPORAN

Determining the Report's Content



Perseroan memilih topik-topik keberlanjutan untuk disajikan dalam laporan ini berdasarkan dampak ekonomi, sosial, atau lingkungan serta pandangan pemangku kepentingan terhadap topik keberlanjutan yang terkait. Selain topik-topik yang diatur dalam POJK-51/2017, topik-topik yang disajikan dalam laporan ini juga mencakup pembahasan penting bagi Perseroan dan entitas anak sebagaimana berikut.

The Company selected sustainability topics to be presented in this report based on economic, social, or environmental impacts as well as stakeholder views on related sustainability topics. In addition to mandatory topics that are stipulated in POJK-51, the topics presented in this report follow significant discussions by the Company and its subsidiaries.

NO	TOPIK BERDASARKAN STANDAR GRI Topics Based on GRI Standards	BATASAN (DIMANA DAMPAK TERJADI) Boundaries (where impacts may occur)				
		PT Barito Pacific Tbk	BISNIS PETROKIMIA Petrochemical Business	BISNIS ENERGI Energy Business	BISNIS PROPERTI DAN HOTEL Property and Hotel Business	EKSTERNAL External
	Energi Energy		✓	✓	✓	
	Air Water		✓	✓	✓	✓
	Emisi Emission		✓	✓	✓	✓
	Pelatihan dan Pendidikan Training and Education	✓	✓	✓	✓	
	Kesehatan dan Keselamatan Kerja Occupational Health and Safety	✓	✓	✓	✓	✓
	Masyarakat Setempat Local Communities					✓

Catatan:

- Bisnis Petrokimia mencakup PT Chandra Asri Petrochemical Tbk dan anak perusahaan
- Bisnis Energi mencakup Star Energy Geothermal Ltd, yaitu Operasi Panas Bumi Wayang Windu, Salak, dan Darajat
- Bisnis Properti dan Hotel mencakup Griya Idola, Griya Idola Industrial Park, dan Mambruk Cikoneng Indonesia.

Notes:

- Petrochemical business includes PT Chandra Asri Petrochemical Tbk and its subsidiaries
- Energy business includes Star Energy Geothermal Ltd, namely Wayang Windu, Salak and Darajat Geothermal Operations
- Property and Hotel Business includes Griya Idola, Griya Idola Industrial Park and Mambruk Cikoneng Indonesia.

Tidak terdapat perubahan atas ruang lingkup kegiatan (Perseroan dan rantai pasokan) dan cakupan topik yang dibahas dalam laporan.

There were no changes in the scope of activities (the Company and supply chain) and the coverage of topics discussed in the report.

KINERJA LINGKUNGAN, SOSIAL, DAN TATA KELOLA

Environmental, Social, and Governance Performance

PETROKIMIA

PETROCHEMICAL

TOPIK Topic	DESKRIPSI Description	SATUAN Unit	2021	2020	2019
EKONOMI ECONOMY					
	Produksi Production	KT	3,835	3,763	3,001
	Pendapatan Bersih Net revenue	US\$ thousand	2,580,425	1,806,444	1,880,989
LINGKUNGAN ENVIRONMENT					
ENERGI Energy	Pemakaian energi terbarukan Use of renewable energy	kWh	4,424.4	3,664.4	1,252
	Hasil konservasi energi Energy conservation results	Gigajoule	461,599	681,890	922,435
	Intensitas energi Energy intensity	Gigajoule/ton	11.43	11.28	12.78
EMISI Emission	Emisi Gas Rumah Kaca Cakupan-1 GHG Emissions Scope 1	Ton CO ₂ e	1,958,429	1,886,921	1,733,097
	Emisi Gas Rumah Kaca Cakupan-2 GHG Emissions Scope 2	Ton CO ₂ e	470,476	509,356	388,657
	Total Emisi Gas Rumah Kaca Cakupan-1+2 Total GHG Emissions Scope 1+2	Ton CO ₂ e	2,428,905	2,396,277	2,121,754
	Intensitas Emisi Gas Rumah Kaca GHG Emission Intensity	Ton CO ₂ e/ton	0.633	0.637	0.71
	Emisi NOX NOx Emissions	Ton ekivalen Ton equivalent	5,311.53	2,505.4	4,298.3
	Emisi SOx SOx Emissions	Ton ekivalen Ton equivalent	165.43	263.00	803.6

TOPIK Topic	DESKRIPSI Description	SATUAN Unit	2021	2020	2019
LIMBAH Waste	Limbah B3 Hazardous waste	Ton	4,574.29	3,323.5	7,216.37
	Intensitas limbah B3 Hazardous waste intensity	Ton limbah/ KT produk Ton waste/ KT product	1.19	0.88	2.40
	Limbah non-B3 Non-hazardous waste	Ton	1,054.44	1,351.76	685.69
	Pemanfaatan limbah non-B3 Utilization of non-hazardous waste	%	50.19	62.69	28.31
	Air limbah yang dibuang ke laut Wastewater disposed into the sea	Ton	2,526,418	2,714,688	1,221,858
	Intensitas air limbah Wastewater intensity	Ton air limbah/ ton produk Ton wastewater/ ton product	0.659	0.721	0.407
	Intensitas beban pencemar dari IPAL Olefins Pollution load intensity from Olefins WWTP	Ton COD/KT air limbah Olefins Ton COD/KT Olefins wastewater	0.054	0.064	0.058
AIR Water	Air dari pihak ketiga Water from third party	Ton	3,734,554	3,450,750	3,572,038
	Air dari sumber alternatif Water from alternative sources	Ton	0.054	0.064	0.058
	Total pemakaian air Total water usage	Ton	4,786,572	4,494.23	4,511,658
	Persentase pemakaian sumber air alternatif Percentage of the use of water from alternative sources	%	21.98	23.21	20.83
	Intensitas pemakaian air Water usage intensity	Ton air/ton produk Ton water/ton product	1.25	1.21	1.50

TOPIK Topic	DESKRIPSI Description	SATUAN Unit	2021	2020	2019
SOSIAL SOCIAL					
KESELAMATAN KERJA* Occupational Safety	Lost Time Case Rate (LTCR)	Per 200,000 jam kerja manhours	0.02	0.00	0.01
	Injury Frequency Rate (IFR)	Per 1,000,000 jam kerja manhours	0.112	0.343	0.282
	Total Incident Rate	Per 200,000 jam kerja manhours	0.112	0.034	0.0007
KESELAMATAN KIMIA Chemical Safety	Produk sesuai dengan EU-REACH Candidate List of SVHC Products comply with the EU-REACH Candidate List of SVHC		Asrene® dan and Trilene®		
TEKNOLOGI BERSIH Clean Technology	Biaya Penelitian dan Pengembangan Produk** Product Research and Development Investment	US\$ thousand	210	6.0	13.3
TATA KELOLA GOVERNANCE					
ORGAN TATA KELOLA Governance Organ	Independensi Independent	Jumlah Komisaris Independen Number of Independent Commissioners	5/14	3/7	3/7
	ETIKA Ethics	Kode Etik Code of Conduct	Pelatihan Kode Etik*** Code of Conduct Training	9	14
		Persentase karyawan yang dicakup pelatihan Kode Etik Percentage of employees covered by Code of Conduct training	100	100	100
		Kasus pelanggaran Kode Etik Cases of Code of Conduct violation	0	0	0

TOPIK Topic	DESKRIPSI Description	SATUAN Unit	2021	2020	2019
SISTEM MANAJEMEN Management System	Sertifikasi ISO 14001 ISO 14001 Certification	Unit pabrik Plant facilities	2	2	2
		Persentase total fasilitas utama**** Percentage of total main facilities	100	100	100
	Sertifikasi ISO 45001 ISO 45001 Certification	Unit pabrik Plant facilities	2	2	2
		Persentase total fasilitas utama**** Percentage of total main facilities	100	100	100
	Sertifikasi ISO 50001 ISO 50001 Certification	Unit pabrik Plant facilities	2	2	2
		Persentase total fasilitas utama**** Percentage of total main facilities	100	100	100
	Audit	Audit Lingkungan dan Energi***** Environment and Energy Audit	10	9	10
		Audit Kepatuhan***** Compliance Audit	2	2	1
		Audit K3 ***** OHS Audit	8	4	6
		Audit Mutu***** Quality Audit	13	11	12
		Audit Pengamanan***** Security Audit	4	2	2

*Termasuk karyawan dan kontraktor

**Termasuk dalam biaya Lingkungan, Sosial, dan Tata Kelola

***Pengenalan kepada karyawan baru saat New Employee Orientation Program

****Fasilitas utama: Site Office Ciwandan dan Site Office Pulo Ampel

*****Audit lingkungan dan energi meliputi internal dan surveillance ISO 14001, Audit ISO 50001, dan RCI – Pollution Prevention

Audit Kepatuhan dilakukan oleh Kementerian Lingkungan Hidup dan Kehutanan dalam program PROPER. KLHK

Audit K3 meliputi audit internal, surveillance, dan renewal ISO 45001, SMK3, dan RCI – EHS, Process Safety, Community Awareness & Emergency Responses (CAER), Distribution Code Audit Mutu meliputi audit internal, surveillance ISO 9001, Halal, ISO 17025, SNI, SNI Award, dan Audit RCI – Product Stewardship Code

Audit Pengamanan meliputi audit internal Sistem Manajemen Pengamanan dan Audit Eksternal RCI – Security Code

Rincian kinerja lingkungan dan sosial dapat dilihat di bagian Data Pendukung Laporan Keberlanjutan pada laporan ini.

*Including employees and contractors

**Included in Environmental, Social, and Governance (ESG) investment

***Pengenalan kepada karyawan baru saat New Employee Orientation Program

****Fasilitas utama: Site Office Ciwandan dan Site Office Pulo Ampel

*****Audit lingkungan dan energi meliputi internal dan surveillance ISO 14001, Audit ISO 50001, dan RCI – Pollution Prevention

Audit Kepatuhan dilakukan oleh Kementerian Lingkungan Hidup dan Kehutanan dalam program PROPER KLHK

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Audit Pengamanan meliputi audit internal Sistem Manajemen Pengamanan dan Audit Eksternal RCI – Security Code

Details on environmental and social performance can be found in the Sustainability Report Supporting Data section of this report.

ENERGI
 ENERGY

ASPEK Aspect	DESKRIPSI Description	LAPANGAN Asset	SATUAN Unit	2021	2020	2019	
Produksi Production	Produksi netto Net production	SEGWWL	MWh	1,856,399	1,887,638	1,858,635	
			GJ	8,683,038	6,795,496	6,691,086	
		SEGS	MWh	2,937,960	2,928,484.31	2,892,051.34	
			GJ	10,576,656	10,542,543.52	10,411,384.82	
	Produksi uap Steam production	SEGD II	MWh	2,117,298	2,165,260.10	2,011,991.03	
			GJ	7,622,273	7,794,936.35	7,243,167.73	
		SEGS	Ton	24,802,242	25,000,981	22,511,130	
			SEGD II	Ton	14,082,520	14,293,857	13,053,987
LINGKUNGAN ENVIRONMENT							
Energi Energy	Pemakaian BBM untuk kendaraan operasional* Diesel used for operational vehicles	SEGWWL	GJ	3,659,391	3,741,635	20,004,752	
		SEGS	GJ	3,970,922.88	3,274,539.14	4,764,906.47	
		SEGD II	GJ	1,784,061.26	1,970,641.78	3,438,143.09	
	Pemakaian energi untuk produksi listrik Energy use for electricity production	SEGWWL	GJ	231,692	203,797	238,353	
		SEGS	GJ	756,937	731,851	729,354.53	
		SEGD II	GJ	322,803.78	334,641	317,396.84	
	Intensitas energi Energy intensity	SEGWWL	GJ/GJ	0.034	0.029	0.034	
		SEGS	GJ/GJ	0.0668	0.0649	0.0655	
		SEGD II	GJ/GJ	0.0393	0.04	0.04	
	Air dan Air Limbah Water and wastewater	Pengambilan Air tanah Groundwater intake	SEGWWL	m ³	11,698	8,550	11,094
			SEGS	m ³	19,766	18,677	26,130
			SEGD II	m ³	5,459	4,262.40	3,789.19
Timbulan air limbah Wastewater generation		SEGWWL	m ³	5,908.7			
		SEGS	m ³	4,792	6,109.4	6,394.13	
		SEGD II	m ³	3,891.4			

ASPEK Aspect	DESKRIPSI Description	LAPANGAN Asset	SATUAN Unit	2021	2020	2019	
Emisi Emission	Emisi GRK dari pemakaian energi GHG emissions from energy use	SEGWWL	Ton CO ₂	140,211	153,942	144,187.27	
		SEGS	Ton CO ₂	200,988.81	314,961.00	204,815.00	
		SEGD II	Ton CO ₂	50,227	44,933	44,267	
	Beban emisi non-condensable gas Non-condensable gas emission load						
	- H ₂ S	SEGWWL	Ton	2,790.73	2,948.5	2,507	
		SEGS	Ton	6,351.38	4,930.22	6,612.39	
		SEGD II	Ton	3,004	2,928	3,761	
	- NH ₃	SEGWWL	Ton	51.55	60.2	55	
		SEGS	Ton	384.48	2,641.84	356.68	
		SEGD II	Ton	40	35	657	
	- CO ₂	SEGWWL	Ton	140,211	153,942.05	143,815.6	
		SEGS	Ton	200,988.81	238,702	211,100.2	
SEGD II		Ton	50,227	44,933	44,267.00		
Limbah Waste	Timbulan limbah non-B3** Non-hazardous waste generation**		Ton	123.03	97.13	84.22	
Keaneka- ragaman hayati Biodiversity	Indeks Kehati Flora Fauna Shannon-Wiener Shannon-Wiener Flora Fauna Biodiversity Index	SEGWWL	Angka Indeks Index Number	2.07	12.46	12.03	
		SEGS	Angka Indeks Index Number	2.56	3.93	3.90	
		SEGD II	Angka Indeks Index Number	2.91	11.24	10.50	
	Satwa kunci Key species	SEGWWL		- Elang Jawa - Surili			
	SEGS		- Owa Jawa - Macan Tutul - Elang Jawa				
	SEGD II		- Kerak kerbau - Lutung budeng - Lutung Surili - Kukang - Owa Jawa				

ASPEK Aspect	DESKRIPSI Description	LAPANGAN Asset	SATUAN Unit	2021	2020	2019
SOSIAL SOCIAL						
Kesehatan dan Keselamatan Kerja Occupational Health and Safety	Total Recordable Incident Rate	SEGWWL	Per 000,000 jam kerja manhours	1.41	0	0.61
		SEGS	Per 000,000 jam kerja manhours	0	0	0.96
		SEGD II	Per 000,000 jam kerja manhours	0	0	0
Karyawan Employee	Rasio upah karyawan level dasar terhadap UMP Ratio of basic employee wages to minimum wage	SEGWWL	%	123	147	123
		SEGS	%	233	238	259
		SEGD II	%	197	203	276
Indeks Kepuasan Masyarakat Community Satisfaction Index	Indeks Kepuasan Masyarakat Community Satisfaction Index	SEGWWL	%	72.18	Tidak dilakukan*** Not conducted	75.52
		SEGS	%	69.68	Tidak dilakukan*** Not conducted	78.33
		SEGD II	%	62.62	Tidak dilakukan*** Not conducted	66.6
TATA KELOLA GOVERNANCE						
Pencapaian Lingkungan Environmental Achievement	Rating Penilaian PROPER KLHK PROPER KLHK Rating	SEGWWL	Rating	Emas	Emas	Emas
		SEGS	Rating	Hijau	Emas	Emas
		SEGD II	Rating	Hijau	Hijau	Hijau

Catatan | Note:

*1 KL BBM Solar = 40,19 GJ

1 KL of Diesel = 40.19 GJ

**Mencakup lapangan Wayang Windu, Salak, dan Darajat

Includes Wayang Windu, Salak, and Darajat

*** Survei kepuasan masyarakat dilakukan dua tahunan

Community satisfaction survey conducted bi-annually

PROPERTI DAN HOTEL

PROPERTY AND HOTEL

ASPEK Aspect	DESKRIPSI Description	LAPANGAN Asset	SATUAN Unit	2021	2020	2019
LINGKUNGAN ENVIRONMENT						
Energi Energy	Listrik Electricity	GI	GJ	5,854	14,517	17,538
		MCI	GJ	4,439	4,531	5,115
		GIIP	GJ	930	709	1,253
		Total	GJ	11,223	19,756	23,905
Air Water	Pengambilan Air tanah Groundwater intake	GI	m ³	42,629	47,702	49,910
		MCI	m ³	40,481	39,914	20,157
		GIIP	m ³	55,838	47,345	53,827
		Total pengambilan air Total of water intake	m ³	138,948	134,961	123,894
Emisi Emission	Emisi GRK dari pemakaian energi GHG emission from energy use	GI	Ton CO ₂	1,365.82	3,387.25	4,092.11
		MCI	Ton CO ₂	1,035.77	1,057.17	1,193.47
		GIIP	Ton CO ₂	217.03	165.39	292.32
		Total Emisi GRK Total of GHG Emission	Ton CO ₂	2,687.21	4,730.54	5,723.99
Limbah Waste	Limbah non-B3* Non-hazardous waste*	Timbulan Total	Ton	28.33	47.82	62.47
		Diolah Managed	Ton	3.02	4.99	7.87

Catatan | Note:

GI: Griya Idola

MCI: Mambruk Cikoneng Indonesia

GIIP: Griya Idola Industrial Park

*Hanya mencakup sampah Gedung Wisma Barito Pacific

Only includes waste from Wisma Barito Pacific Building

**Menggunakan faktor emisi sistem ketenagalistrikan yang diterbitkan Kementerian ESDM tahun 2019. 1 kWh = 0,84 kg CO₂e (Grid Jamali)

Uses the electricity system emission factor issued by the Ministry of Energy and Mineral Resources in 2019. 1 kWh = 0.84 kg CO₂e (Grid Jamali)

INDEKS POJK-51/2017

POJK-51/2017 Index

Daftar Pengungkapan Sesuai Peraturan Otoritas Jasa Keuangan Nomor 51/POJK.03/2017 tentang Penerapan Keuangan Berkelanjutan bagi Lembaga Jasa Keuangan, Emiten, dan Perusahaan Publik.

List of Disclosures According to Financial Services Authority Regulation Number 51/POJK.03/2017 regarding the Implementation of Sustainable Finance for Financial Services Institutions, Issuers, and Public Companies.

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Laporan ini memuat persyaratan dalam GRI Standar yang diterbitkan Global Reporting Initiatives terbitan 2016. Data dan Informasi yang terkait dengan GRI Standar adalah sebagai berikut:

This report includes GRI standards published by the Global Reporting Initiatives in 2016. Data and information relating to GRI standards are as follows:

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Reader Survey

1. Seberapa besar Anda mau merekomendasikan laporan keberlanjutan ini untuk dibaca oleh rekan atau sejawat Anda?
How likely would you recommend this sustainability report to be read by your peers or colleagues?

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	10 <input type="checkbox"/>
Sama sekali tidak Not at all								Sangat merekomendasikan Highly recommend	

2. Topik keberlanjutan mana yang paling menarik bagi Anda?
Which sustainability topic is most interesting to you?

.....

.....

.....

.....

3. Apakah informasi yang Anda baca sudah cukup bagi Anda untuk menarik kesimpulan?
Is the information you read sufficient for you to draw conclusions?

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	10 <input type="checkbox"/>
Sama sekali tidak Not at all								Sangat merekomendasikan Highly recommend	

4. Apakah tampilan laporan ini (tata letak, infografik, dan elemen desain lainnya) cukup menarik dan membantu saat membaca?
Is the appearance of this report (layout, infographics, and other design elements) interesting and helpful when reading?

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	10 <input type="checkbox"/>
Sama sekali tidak Not at all								Sangat merekomendasikan Highly recommend	

5. Saran dan masukan Anda bagi laporan kami selanjutnya.

Your input and suggestion for our next report.

.....
.....
.....
.....

6. Informasi Anda.

Your information.

Nama/Name :

Usia/Age :

Pekerjaan/Occupation :

7. Apakah Anda bersedia untuk dihubungi untuk informasi keberlanjutan kami selanjutnya?

Are you willing to be contacted for our future sustainability information?

Ya/Yes

Alamat email yang bisa dihubungi :

Email address :

Tidak/No

Terima kasih atas kesediaan Anda untuk mengisi lembar umpan balik ini. Anda dapat mengirimkan lembar umpan balik ini kepada kami melalui:

Thank you for taking the time to fill this form. You can mail this to us at:

PT Barito Pacific Tbk
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