



Chandra Asri



Beyond Expansion: **Empowering Sustainable Growth**

2024

PT Chandra Asri Pacific Tbk

In this **presentation**

- Sustainability in Every Step
- RESPONSIBLE Framework
- Sustainable Environmental Footprint
- Sustainable Growth with People and Communities
- Sustainability Governance and Responsible Business Practices



Chandra Asri

ESG -Why it matters to Chandra Asri

The pressing need to address climate issues has propelled society towards an urgent and collective pivot towards a low-carbon paradigm. A diverse array of stakeholders, ranging from governmental entities and astute investors to conscientious consumers and the broader society, now places sustainability at the forefront of their considerations.

In this regard, Chandra Asri Group steadfastly maintains its commitment to integrating sustainable practices into its business growth trajectory and delivering low-carbon solutions, in alignment with ESG principles.



Environmental

- Climate Resilience
- Environmental Stewardship



Social

- Community Engagement
- Human Capital Development
- Human Rights
- Occupational Health and Safety
- Responsibility to Customers




Governance

- Sustainability Governance
- Business Ethics
- Public Policy Engagement And Association Membership
- Sustainable Procurement
- Information Security and Digital Transformation

Our ESG Recognition & Awards


CDP SCORE REPORT CLIMATE CHANGE AND WATER SECURITY



Score **B**
(Management)

Indicates that the Company has taken specific actions to address climate change and water security.

MSCI ESG RATING



5.3	5.7
2023	2024

Improved from BBB (score 5.3) in 2023 to BBB (score 5.7) in 2024.

SUSTAINALYTICS ESG RATING



ESG Risk Rating **16.3**
(low risk)

Ranked in the second percentile globally within the commodity chemicals sub-industry.

ESG INDUSTRY TOP RATED



The top-rated badge confirms our dedication to sustainability excellence, showcasing our transparent approach to ESG performance and proactive management of ESG-related risks.

ECOVADIS SUSTAINABILITY RATING



Silver Medals

Rated above the industry average for environmental, social, governance, and economic aspects.

S&P CORPORATE SUSTAINABILITY ASSESSMENT



Score **42**

Achieves above-industry average score in the areas of environmental, social, governance, and economic aspects.

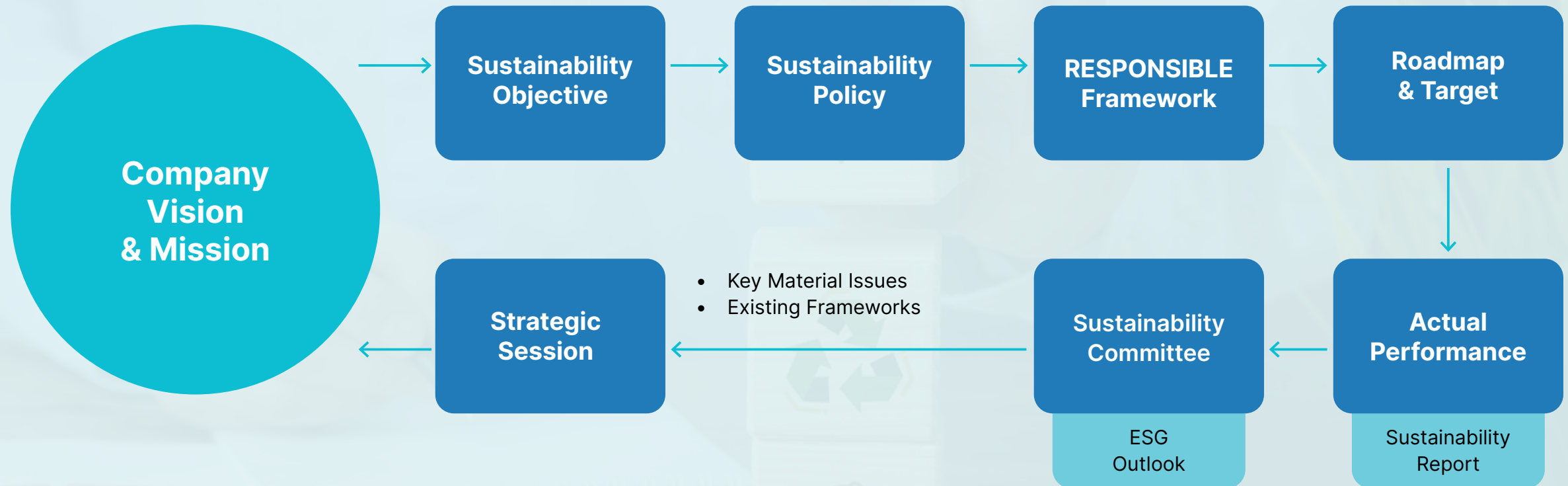


Green PROPER Awards for Ciwandan Site and Pulo Ampel Site



Subroto Energy Efficiency Award 2024 by the Ministry of Energy and Mineral Resources

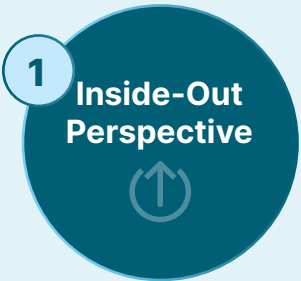
Sustainability **in Every Step**



The Company continued to strengthen our commitment to sustainability by formulating sustainability focused objectives. These objectives are developed through a Plan Do Check Act (PDCA) process, aligned with Chandra Asri Group's vision and mission, and regularly reviewed during corporate strategic sessions.

Materiality Matrix

In 2024, Chandra Asri Group conducted double materiality assessment evaluates materiality from two distinct perspectives:

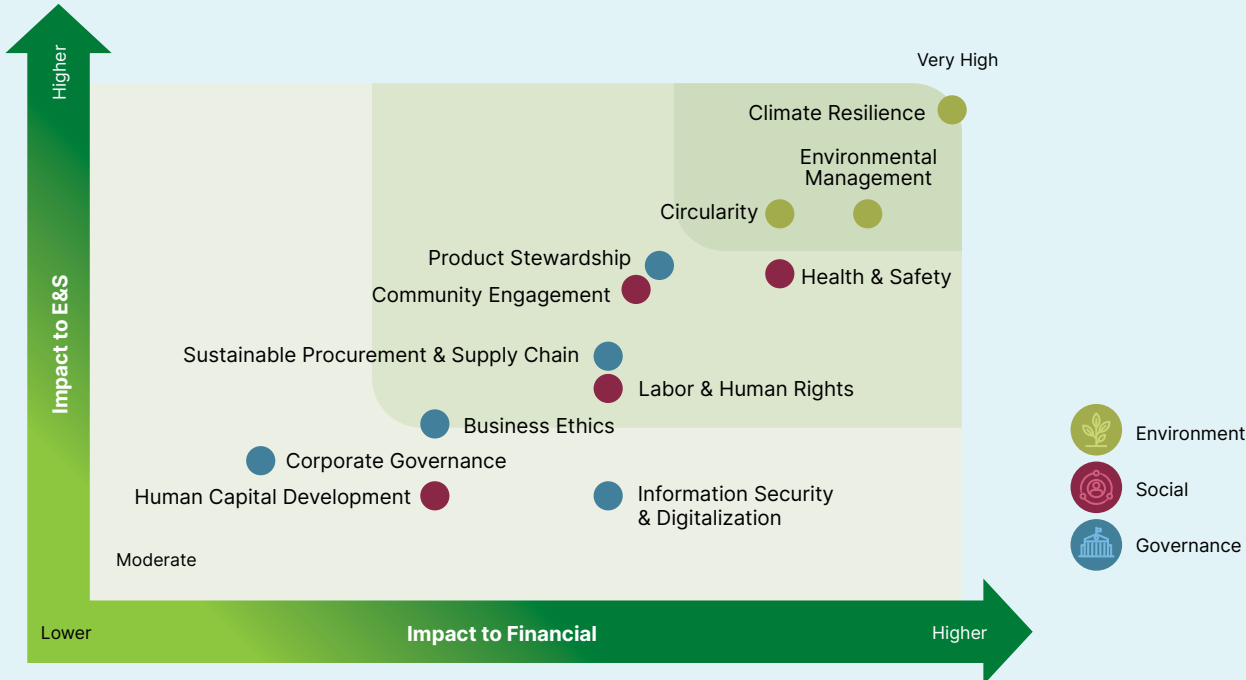


Assesses the impact of sustainability issues on the environment and society.



Evaluates potential risks and opportunities arising from sustainability related factors that may affect the Company’s financial performance and strategic position.

Through a comprehensive double materiality assessment, Chandra Asri Group has identified 12 material topics that serve as the primary focus of the Company’s sustainability strategy. These topics reflect the Company’s commitment to responsible and sustainable business practices. Each topic is then categorized based on high, medium, and low priority within the materiality matrix presented.



Responsible Framework

Aligned with the defined Materiality Matrix, Chandra Asri Group developed a RESPONSIBLE framework to effectively manage material ESG topics while ensuring compliance with regulations, standards, and intergovernmental instruments.



Sustainable Environmental Footprint

Climate Resilience

- Climate Governance
- Climate Risk
- Climate Strategy
- Climate Metrics and Targets

**Greenhouse Gas
(GHG) Emission**

Energy

Environmental Stewardship

- Environmental Governance
- Environmental Management Strategy
- Evaluation of Management Performance and Relations with Stakeholders

**Water and
Wastewater**

Air Quality

Waste

Biodiversity

Materials

Clean Technology



Chandra Asri

Energy & GHG Emissions

Decarbonization Roadmap

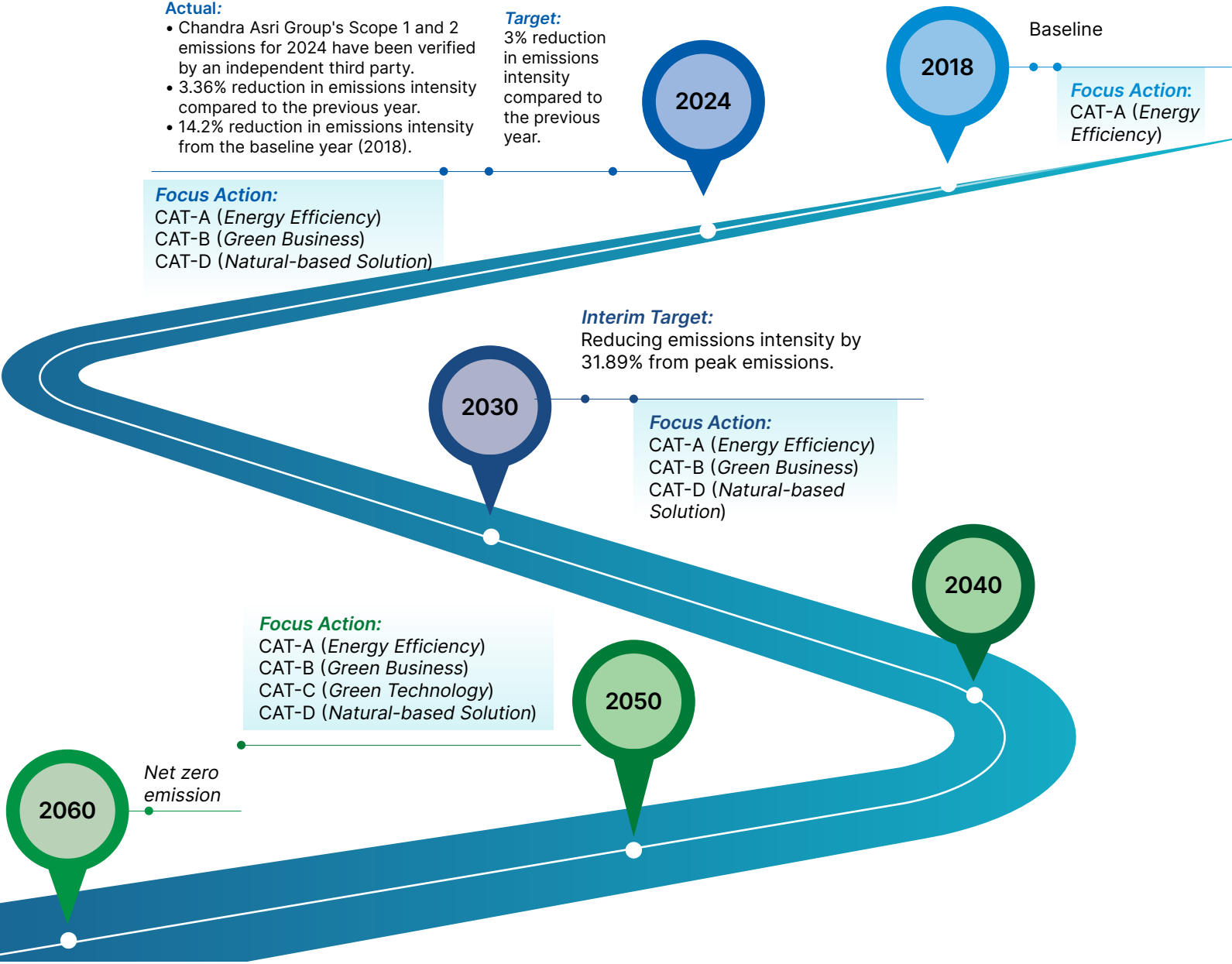
Following a comprehensive climate risk assessment, the Company has implemented additional measures to align with national targets, anticipate stricter regulations, and meet stakeholder expectations. This strategy supports the Science Based Targets initiative (SBTi) and reinforces the Company's commitment to achieving net-zero emissions by 2060 through ongoing adoption and monitoring of emission reduction innovations.



GHG emissions



Chandra Asri Group's Scope 1 and 2 GHG emissions for 2024 have been verified by independent party, demonstrating a commitment to transparency, accuracy, and global sustainability




Energy & GHG Emissions

ABCD Strategy


A

Abate existing emission through energy efficiency

Improving energy efficiency through process modifications, equipment substitutions, waste-heat recovery, digitalization, loss reduction, energy consumption management, and operational efficiency enhancements.



Energy Saving
313,853 GJ




Emissions Reduction
17,814 tonCO₂e

Our Program

- 1
- Utilization of Combined Heat and Power
- 2
- Industrial Automation
- 3
- Convection Renewal



Cost Saving
US\$ 2,395,727



3.36%
Reduction of Scope 1 & 2 GHG emissions intensity compared 2023 (tonCO₂e/ton product)

B

Balance future emissions by incorporated green business

Expanding low-emission businesses, including renewable energy ventures, studies on green or sustainable product development, recycled plastics, new chemical pathways, and potential businesses in nature-based solutions.

Our Program

- 1
- Investment in Used Cooking Oil Procurement as a Source of Green Energy
- 2
- Chlor-Alkali Plant Development
- 3
- Explorations of Environmentally Friendly Energy Business

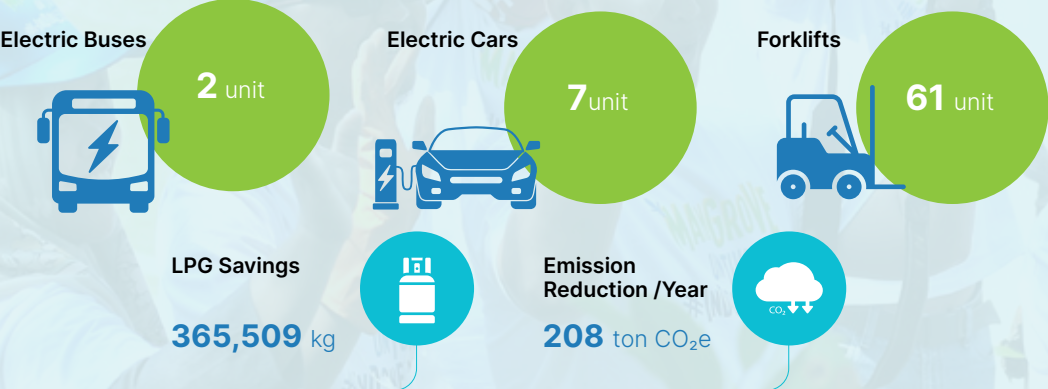
Energy & GHG Emissions

ABCD Strategy

C

Control emissions through green technology application

Conducting studies on the application of low-carbon fuels, such as blue/green hydrogen, RDF, and the implementation of CCUS in collaboration with technology and service providers.



Our Program

- 1 Study on utilizing H2 by-products as fuel in furnace units to reduce carbon and toxic emissions
- 2 Study on implementing Carbon Capture, Utilization, and Storage (CCUS) technology
- 3 Study for the implementation of a mini hydroelectric power plant
- 4 Study on implementing RDF co-firing for waste-to-energy solutions
- 5 Electric vehicle

D

Decarbonize through nature base solution

Providing nature-based solutions, including forestry practices, blue carbon initiatives, restorative agriculture, and marine conservation practices.

Our Program

- 1 Signed a Partnership Agreement for the conservation of 180 hectares

Water and Wastewater

The Company continues to place a high focus on impact management related to water risk, especially related to the use of fresh water and wastewater management, due to high water consumption in general.

To enable water stress risks to be identified and considered in the Company's strategy, the relevant internal functions have integrated water risk as part of the climate-related risk assessment

Our Target

1. Reduction in water intensity per unit of product compared to 2023.
2. 1% reduction in wastewater generation intensity.

Our Achievement

1. Water intensity in 2024 decreased by approximately 6.2% compared to 2023.
2. Wastewater intensity increased by 14.2% compared to 2023, due to scheduled maintenance activities.

Our Program

- 1 Optimization of PCW water return to the pelleting system through a screening process to maintain quality according to specifications
- 2 Replacement of packing and cleaning of the reboiler in the diluent recovery unit to reduce steam requirements in the reboiler
- 3 Replacement of leaking heat exchanger tubes and cleaning of other heat exchangers during 2024 TAM
- 4 Increasing the use of alternative water sources through desalination
- 5 Replacing amine-based chemicals with caustic-based chemicals in the dilution steam generation (DSG) system
- 6 Installation of a continuous and networked wastewater quality monitoring system (SPARING)

Air Quality Management

Chandra Asri Group conducts evaluations on air quality management, which include comparing its performance with peers, analyzing trends from the previous year, and calculating a 3-year average to determine and set better environmental targets for the future.

Our Target

13% reduction in SOx emission intensity in 2024 compared to the 2021 baseline year.



Our Achievement

1. The air pollution generated by the Company throughout 2024 complied with the quality standards set by the government.
2. 27.9% reduction in SOx emission intensity was achieved compared to the 2021 baseline year

Our Program

1

Boiler Energy Efficiency Program

2

Continuous Emission Monitoring System (CEMS)

3

Dry Low NOx Burner Program

4

Installation of Electrostatic Precipitator (ESP) on Coal Boilers

5

Hydrocarbon VOC Reduction Program / Leak Detection and Repair (LDAR)

6

Air Pollution and Ozone Depleting Substance Reduction

Waste

In striving for sustainability, the Company consistently conducts evaluations on waste management, which include comparing the Company's performance with peers, analyzing trends from the previous year, and calculating a 3-year average to establish and formulate better environmental targets for the future.

Our Target

1

Reduce hazardous waste disposal to landfills by 6%

2

Utilization of non-hazardous waste by 80%

Our Achievement

1

Reduced hazardous waste disposal to landfills by 73.48%

2

Non-hazardous waste use reached 87.20%



Waste

■ Our Program & Achievement

Hazardous Waste Management

Reduce

1. Optimization of presulfiding injection to reduce coke buildup in the furnace.
2. Reduction of hazardous waste from additive packaging.
3. Implementation of pre-rinsing method in the N-Methyl-2-pyrroli done (NMP) solvent treatment process.



Reuse

1. 56.68% of waste was reused and recycled.
2. Economically valuable waste.
3. Reuse of hazardous waste by third parties.



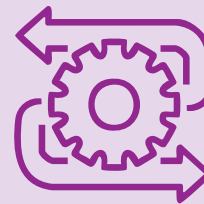
Recycle

1. Recycling of spent gasoline into the quenching system.
2. Estimated waste reduction of 809.99 tons through internal recycling in 2024.



Recovery

1. Recovery of precious metals from spent catalyst
2. Waste reduction of 2.41 tons through catalyst waste recovery in 2024.



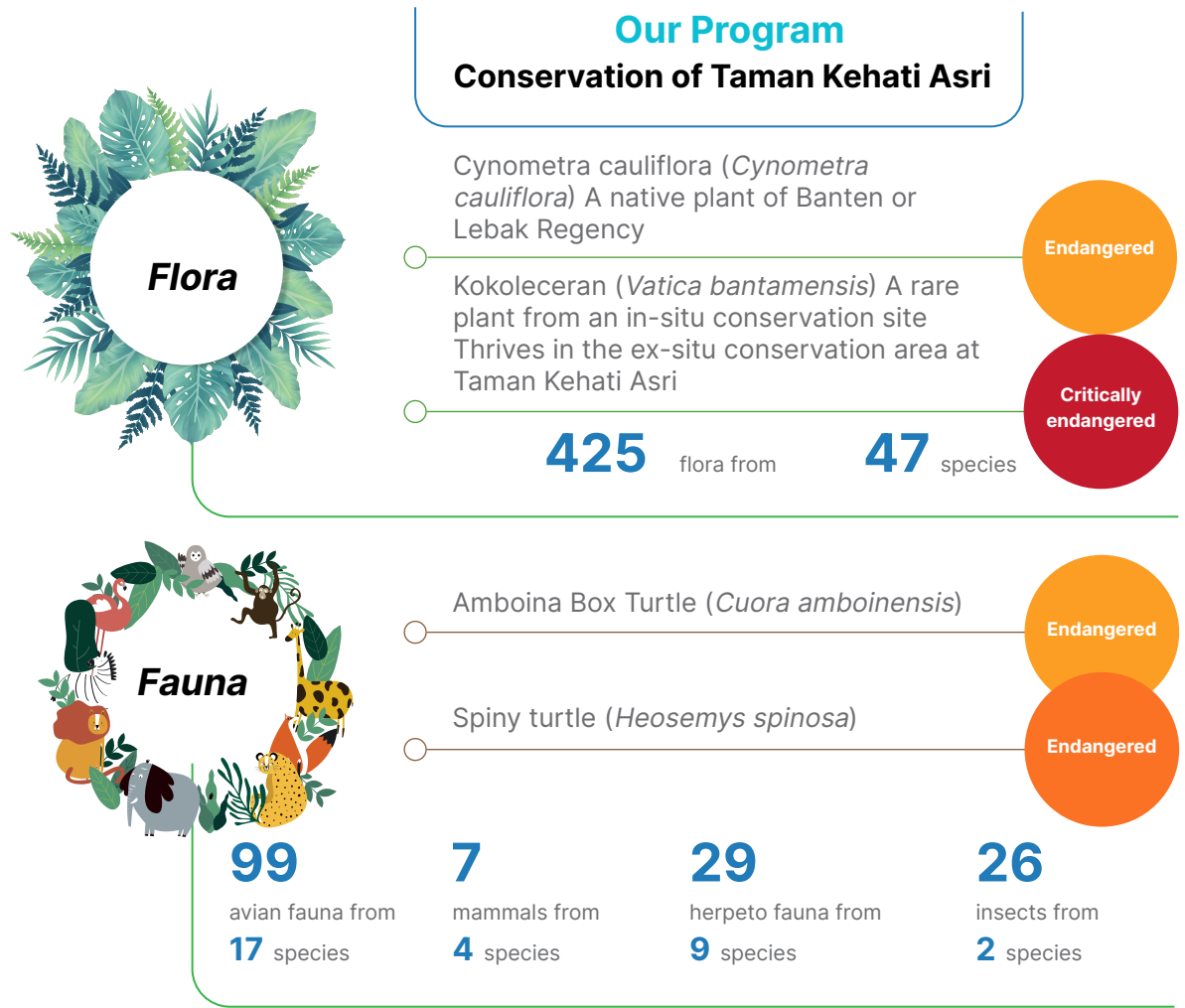
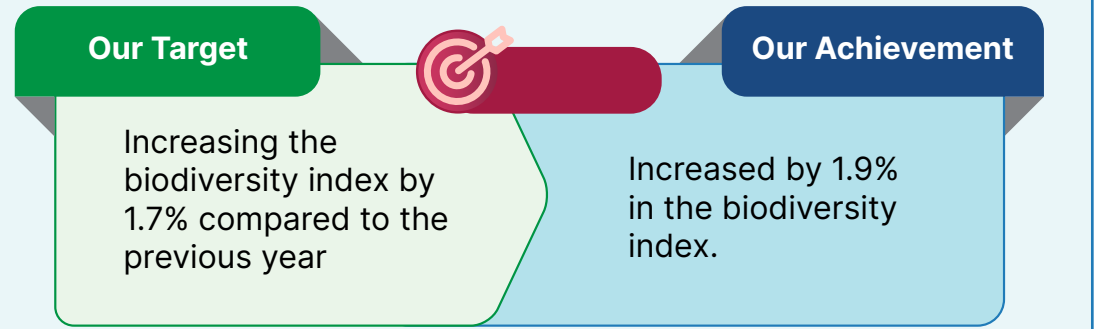
Non-Hazardous Waste Management

1. Utilization of organic waste from cafeteria activities and grass clippings for compost production.
2. Conversion of organic waste from the cafeteria into maggot feed.
3. Utilization of non-hazardous waste by third parties as economically valuable materials



Biodiversity

The Company has established a biodiversity protection policy including identification and inventory of biodiversity potential, determination of protected areas, allocation of adequate resources, involvement of all related parties, and support for actions in accordance with the principles of biodiversity conservation.



Biodiversity

■ Our Program



Biodiversity Restoration at Kadubeureum Kehati Park, Cidanau Watershed



3,061

Flora from

60

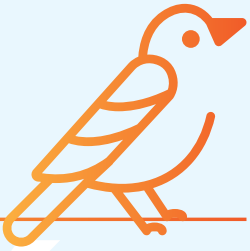
Species

520

Avian fauna from

73

Species



Coral Reef Rehabilitation Program

Rehabilitation area

83 m²

Number of coral clusters

2,770 clusters

Biodiversity index (H') in the coral reef ecosystem

2.43 species

Coral cover (%)

51



2022

52.50



2023

60.50



2024

Survival Rate

(%)

100

2022

100

2023

100

2024

Materials

The Company supports environmental sustainability through integrated recycling in design and production. This effort aligns with the government's Marine Debris Action Plan (RAN-PSL), targeting a 30% reduction in marine waste by 2028 through the principles of 3R, EPR, and the use of renewable materials.

■ Our Strategy

- 1 Utilize renewable materials to develop green products;
- 2 Reduce end-product waste by implementing Extended Producer Responsibility (EPR);
- 3 Manage end-product waste through the 3R principles (Reduce, Reuse, Recycle) and circular economy practices;
- 4 Strengthen circular economy practices throughout the product life cycle to minimize final waste generation.

Our Target

1. 17,000 kg of plastic waste managed through recycling and upcycling as part of end-to-end plastic waste management in Cilegon.
2. 5,250 liters/year of pyrolysis oil distributed and utilized.
3. Expansion of the Plastic Asphalt Road initiative by engaging with local governments to support the implementation of plastic asphalt in their respective regions.
4. 7,500 participants engaged in end-to-end plastic waste management programs.
5. Waste management coverage under the SAGARA program extended to 4 community units in Anyar Village.

Our Achievement

1. 17,531.5 kg of plastic waste managed through recycling and upcycling as part of end-to-end plastic waste management in Cilegon.
2. 5,504 liters/year of pyrolysis oil distributed and utilized.
3. Establishment of the National Plastic Asphalt Showcase in Jimbaran, Bali, serving as a learning center for local governments, and recognition by Original Rekor Indonesia for implementing the longest plastic asphalt road in Indonesia, covering 120.8 km.
4. 7,882 participants engaged in end-to-end plastic waste management programs.
5. Waste management coverage under the SAGARA program expanded to 5 community units in Anyar Village.

Materials

■ Our Program



1. Renewable Material
The Company is partnering to build a facility that uses hydrotreated vegetable oil (HVO) to produce renewable Bio-Naphtha.



2. Recycle Material
The Company processes post-consumer plastic waste into high-quality recycled resin to replace conventional plastic, reduce environmental impact, and support a circular economy in line with its sustainability goals.



3. Recycle End-of-Life Products

Program Impacts

- The National Plastic Asphalt Showcase was established in Jimbaran, Bali as a learning center for local governments, in collaboration with Jimbaran Hijau, ASECH, and the Ministry of Home Affairs.
- Advocacy and promotion to the government for the adoption of plastic asphalt in national road infrastructure.
- Achieved the Indonesian record for the longest plastic asphalt road, spanning 120.8 km.



Materials

■ Our Program



4. End-to-End Plastic Waste Management

ENVIRONMENTAL IMPACT

20,364 liter **17,531.5** kg

of accumulated
pyrolysis oil production of total plastic waste
managed in 2024

8,335 kg **6,215** liter

of low-value plastic
waste upcycled through
pyrolysis in 2024 of pyrolysis oil
successfully
produced in 2024

5,504 liter of pyrolysis oil distributed
for community and
company use in 2024

SOCIAL IMPACT

10 **7,882**

jobs created residents engaged in
waste sorting activities



5. World Cleanup Day (WCD) 2024 Indonesia Program

PROGRAM IMPACT

6,000 ton

of waste managed
across Jakarta

1,000,000

students

from elementary, junior high,
senior high, and vocational
schools participated in World
Clean Up Day Jakarta



6. SAGARA-Marine and Coastal Plastic Waste Management Program

ENVIRONMENTAL IMPACT

58,256 kg

of total waste managed

1,892

beneficiaries, covering

5,238.7 kg

of plastic waste, including
marine debris

473

households

Clean Technology

■ Our Program & Achievement



Alternative Energy

1. Solar Energy
2. HydrogenFuel
3. WasteEnergy
4. Biomass
5. Mini Hydro Power



Energy Efficiency

1. Natural Gas Combined Heat and Power
2. Industrial Automation
3. Technology and System Optimization



Pollution Prevention and Control

1. Waste Treatment
2. Reuse and Recycle
3. Post Consumer Recycle
4. Environmental Information Technology
5. Conventional Air Pollution Control
6. Carbon Capture and Storage



Implementation of Green Building Principles

The Company achieves EDGE Advanced Green Building Certification



Sustainable Water

1. Desalination
2. Smart Measurement Devices
3. Study on the implementation of a rainwater harvesting system
4. Study on converting wastewater and cooling tower blowdown into raw water
5. Implementation of a pellet conveying water recycling system



Sustainable Products

1. Green Product (Ekolabel)
2. International Sustainability and Carbon Certification (ISCC Plus)



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Sustainable Growth with **People and Communities**

Community Engagement

- Community Development Strategy

Human Capital Development

- Talent Management and Employee Well-Being
- Human Rights
- Occupational Health and Safety

Responsibility to Customers

- Product and Chemical Safety

Community Engagement

Chandra Asri Group is committed to fostering and maintaining harmonious relationships while undergoing transformative changes in the physical and socio economic landscape within its operational areas.

■ Our Strategy

- 1

Identifying certain social issues or needs in society through field studies.
- 2

Developing programs to answer mapped social issues and needs.
- 3

Fostering partnerships with local organizations to strengthen social impact.
- 4

Monitoring and evaluating the impact and implementation of the program.
- 5

Communicating results transparently through regular reports.

■ Our Achievement

38

scholarships
Beneficiaries of Outstanding Student Scholarship Program

50

toddlers and 40 pregnant women
Beneficiaries of Health Program

473

households
Beneficiaries of Circular Economy Program

23

subdistricts/ villages
Beneficiaries of Community Social Program

2.97

SROI Pesona Anyar (2019-2024)
Program Theme 2024: Teman Tumbuh

90%

toddlers were alleviated from undernutrition and severe malnutrition

Community Engagement



Education Pillar



7 full scholarship packages
for orphans and underprivileged students at the university level in Ring 1 areas

4 fostered schools
received recognition as Adiwiyata schools at the Regency, Provincial, and Independent levels

14 students
successfully passed the selection process for new student admission at PIPB

324 students
participated in the webinar, which was conducted online

20 students
benefited from the school reconstruction program



Health Pillar



50 toddlers
Nutrient Post program for 50 stunting and wasting toddlers

30 pregnant women
received nutritious ready-to-eat meals to address chronic energy deficiency (CED)



Community Engagement



473 households participated in waste management activities in Anyar Village

687 pcs Rabeg Asri produced, with 350 pcs sent for disaster relief in Ternate and 100 pcs allocated for disaster logistics stock at BPBD Serang Regency

50 people attended training on processing fish into nutritious food

28 members participated in the Mangrove Patikang Berseri Group (KMPB)



23 subdistricts/villages received ZIS distribution

97 sacrificial animals donated across 64 locations

Planted 4 new tree species: mahogany, moringa, pitcher plant, and kaffir lime.

Increased floral biodiversity index to **3.35**

Human Capital Development

Talent Management and Employee Well-Being

Chandra Asri Group believes that prioritizing internal well-being fosters an intelligent and adaptable workforce.

■ Our Strategy

- 1 Establishing quality and quantity standards for human capital to align job functions with current business needs and future development plans.
- 2 Developing employee competencies and career paths through education and training programs as a platform for self-actualization.
- 3 Conducting fair, honest, and transparent evaluations, with all assessments based on integrity and accountability.

■ Our Achievement

2,384
Number of employees

23.08%
Composition of female employees at the Managerial Level

4.65/5
Participant Satisfaction Level for Training/ Seminars

100%
Employees have completed the evaluation review

74.74%
Annual Learning Development Program Implementation

Total Training Hours

57.08 Thousand hours

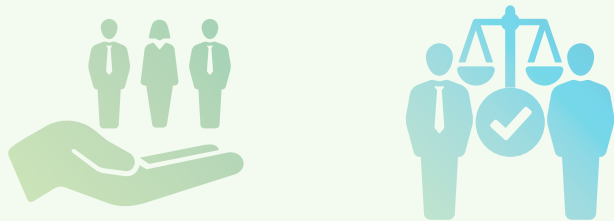
Human Capital Development

Human Rights

Chandra Asri Group respects the human rights of every individual by promoting fairness in the workplace to foster harmonious relationships with all employees.

■ Our Strategy

- 1 **Preventing discrimination** in employment practices.
- 2 Providing **fair and competitive remuneration**.
- 3 Guaranteeing **freedom of association** and the right to **collective bargaining**.
- 4 **Upholding human rights** across all business processes and supply chain.



■ Our Achievement

0
Forced & child labor
were employed
within the Company

The wages for the lowest-level new
employees exceed provincial minimums
in our operational areas

DKI Jakarta: **122%**

Banten: **154%**

0
Human rights
violations


100%
Employees are supported and received
advocacy from labour union and are
covered under the Collective Labor
Agreement (CLA)

Human Capital Development

Occupational Health and Safety

Chandra Asri Group complies with safety and environmental regulations and standards, conducts regular risk assessments, and implements proactive measures to prevent accidents or injuries.

■ Our Strategy

- 1 Managing potential risk impact on quality, environment, safety, and product integrity.
 - 2 Eliminating occupational health and safety hazard to prevent injuries, work-related illnesses, and fatalities.
 - 3 Preventing incidents through the effective implementation of Process Safety Management (PSM) and risk-based surveys.
 - 4 Investigating and identifying the root causes of all incidents.
- 

■ Our Program

- 1 Process Safety Management
- 2 Management of Change
- 3 Contractor Safety Management
- 4 PSM Audit
- 5 Building an OHS Culture

Human Capital Development

Occupational Health and Safety

Our Achievement



WORK SAFETY PERFORMANCE



- Note :
- Safety Performance in Lost Time Case Rate (LTCR) per 200,000 working hours
 - Benchmarks from The International Association of Oil & Gas Producers (IOGP)
 - IOGP 2024 performance benchmarks were not yet available at the time this report was prepared

Responsibility to Customers

■ Our Strategy

“Chandra Asri Group is dedicated to delivering consistent service and meeting customer expectations, ensuring enhanced satisfaction through the provision of safe products and services.



Select suppliers by considering safety, quality, and regulatory compliance through regular audits



Ensure material safety by conducting inspections and reviewing Safety Data Sheets (SDS) and Certificates of Analysis (COA)



- Implement proper work methods to handle materials and products safely.
- Apply management systems based on international standards.



Conduct risk assessments throughout the product life cycle, from development, production processes, marketing, storage, and distribution to customer use.



- Select safe transportation methods for delivering products to customers
- Provide product education on safety, regulatory compliance, end-of-life management using the 4R principles (Reuse, Recycle, Reduce, Recovery), and circular economy concepts
- Facilitate customer audits when required

Responsibility to Customers

■ Our Target

1. Zero incidents of non-compliance related to product and service health and safety
2. Reduction in product return cases compared to the previous year

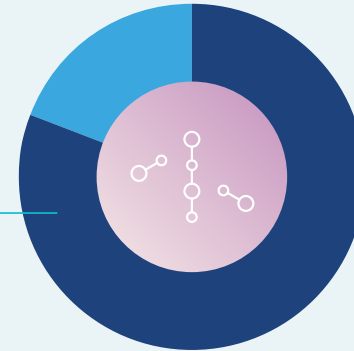
■ Our Achievement

1. Zero incidents of non-compliance related to product and service health and safety
2. Reduction in product return cases by 8 (eight) cases (20%)

Customer Satisfaction Survey

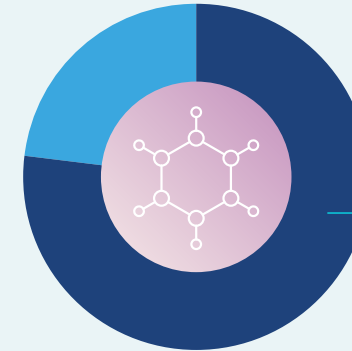
81.00%

Monomer*



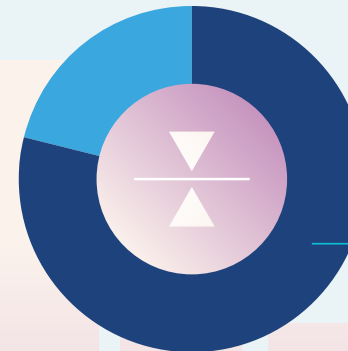
77.00%

Polymer



Average Customer Satisfaction

79.00%



*Including Styrene Monomer



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Commitment to Good **Corporate Governance Practice**

**Sustainability
Governance**

**Business
Ethics**

**Public Policy
Engagement And
Association Membership**

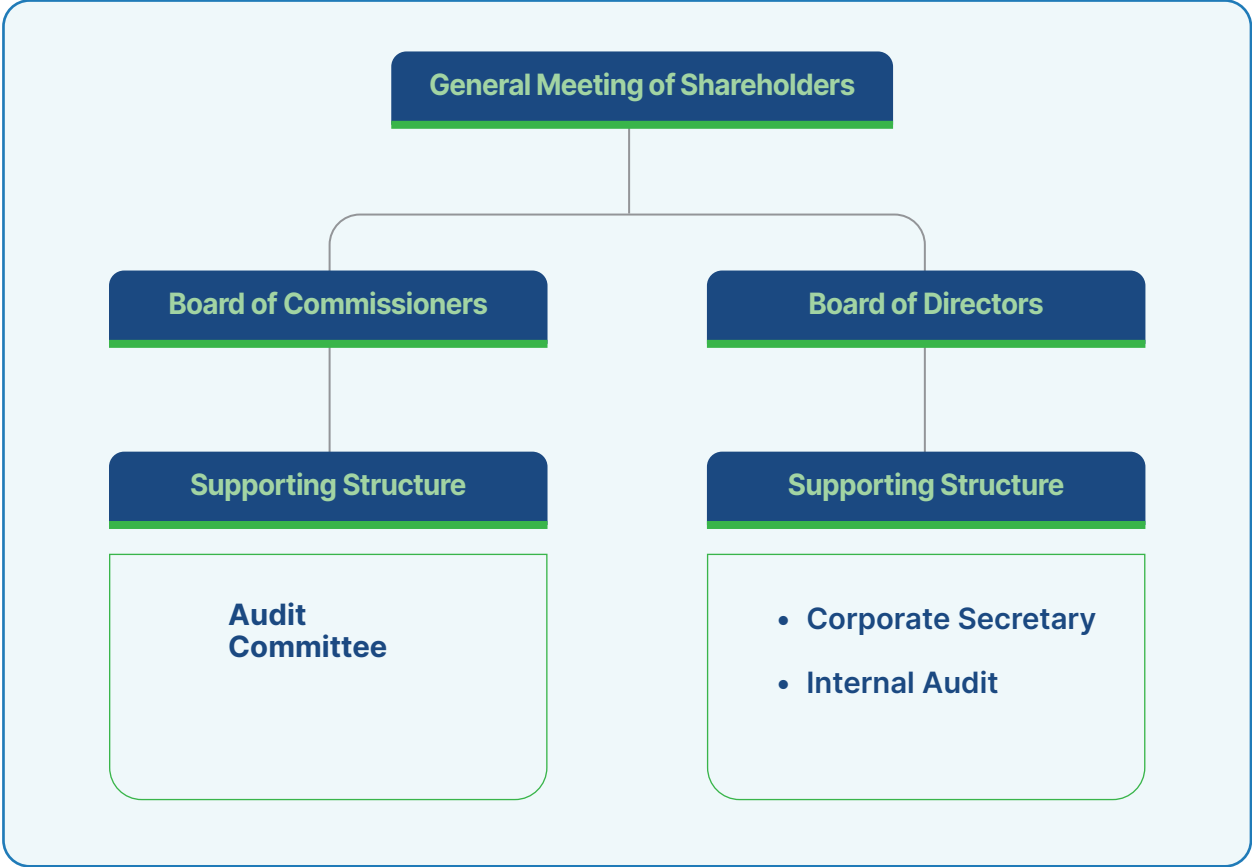
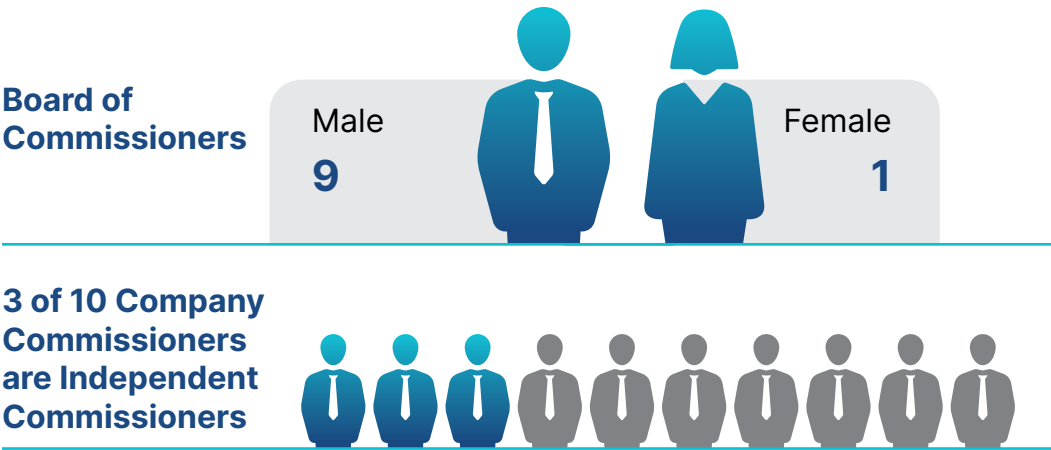
**Sustainable
Procurement**

**Information Security and
Digital Transformation**

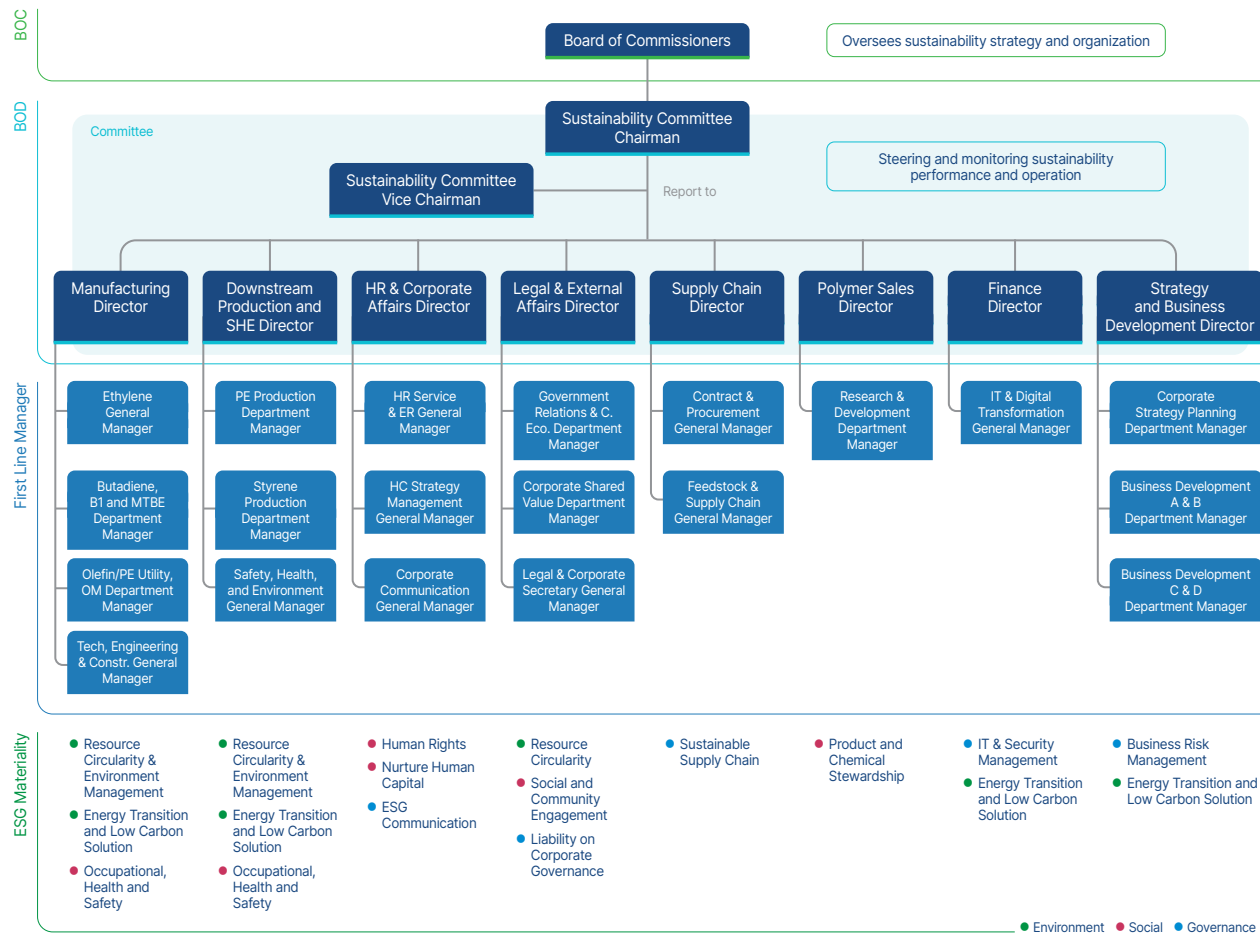
Sustainability Governance

Board Structure

The Company is committed to fostering diversity within its highest governance body by considering background, education, knowledge, experience, expertise, and gender. In 2024, this commitment was demonstrated through the appointment of a female Commissioner, reinforcing efforts to establish a more representative and inclusive governance structure.



Sustainability Committee Structure



At Chandra Asri Group, the CEO serves as the head of the highest governance body, ensuring adherence to the Company's ESG principles. Each year, the Board of Directors and Senior Management (First Line Managers) hold strategic meetings to formulate sustainability plans. Additionally, Chandra Asri Group regularly evaluates ESG-related risks to identify potential challenges and establish appropriate mitigation measures.

Pay Linked to Sustainability

The Company evaluates performance using a Corporate Scorecard, which includes sustainability as a key parameter. Sustainability performance, particularly environmental aspects, directly influences executive and employee remuneration, including short- and long-term incentives.

Business Ethics

- “The Chandra Asri Group Code of Ethics is mandatory for all levels of the organization, including the Board of Commissioners, Board of Directors, employees, subsidiaries, and joint ventures under the Company’s scope.”
- Chandra Asri Group conducts business activities in strict compliance with the Code of Ethics and upholds a corporate culture known as iSTAR.
- The oversight of Chandra Asri Group’s Code of Ethics is led by the HR Director and CEO, with support from the Employee Relations Division, ensuring adherence to ethical standards and business regulations across the Company.

CORE COMPONENTS OF THE CODE OF ETHICS



People and Safety



Fighting Bribery, Corruption and Money Laundering Practices



Business Activities



Employees Political Activities



Safeguarding Information and Assets



Communication



Whistleblower Committee

The Whistleblower Committee is responsible for managing all reports or complaints received through the reporting channel, conducting investigations on these reports, providing recommendations for case resolutions, and making final decisions.

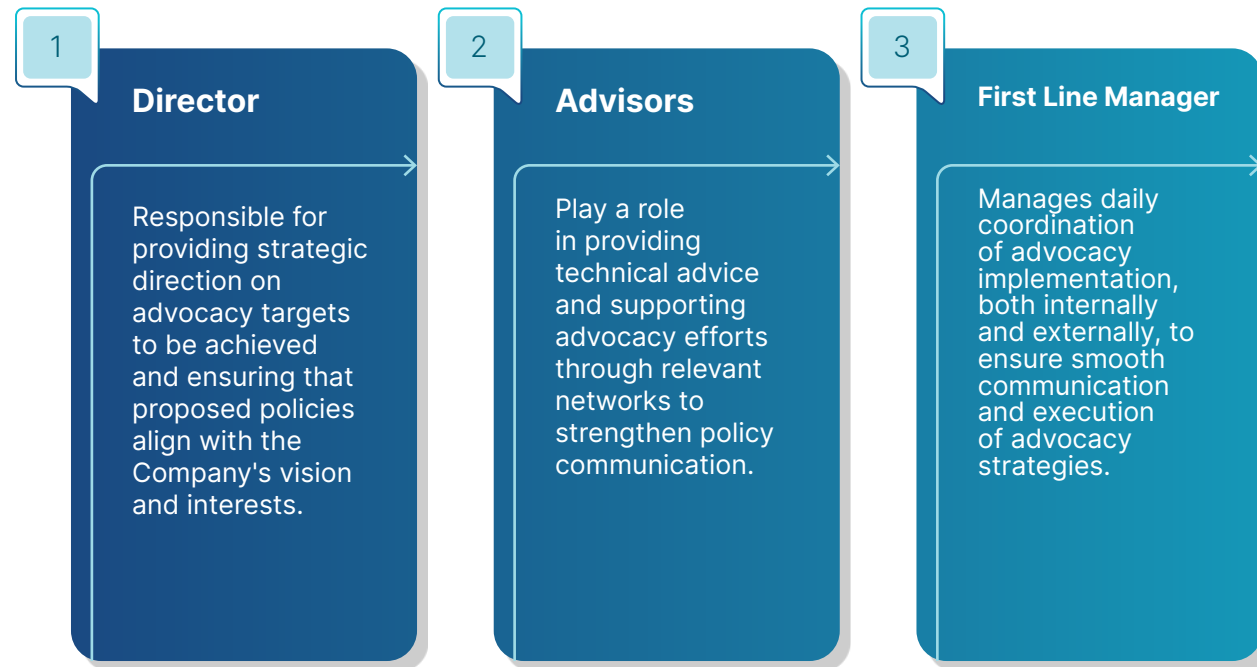


Whistleblowers Protection

The Company provides protection to whistleblowers from retaliation, threat, intimidation, and any unpleasant action. This protection includes confidentiality of the identities and is applied for all parties involved, including the informant, the parties subjected to the complaint of violations, parties involved in investigations, and sources of information.

Public Policy Engagement and Association Membership

In public policy engagement, the Company implements a clear governance structure to ensure the effectiveness of advocacy efforts and the achievement of established targets. This structure consists of several key roles with the following responsibilities:



- In 2024, the Company engaged in advocacy efforts related to climate change and environmental issues through various strategic initiatives. One of the key forms of involvement is participation in the Indonesian Olefin, Aromatic, and Plastic Industry Association (INAPLAS) to support solutions for environmental challenges, particularly in plastic waste management.
- Chandra Asri Group is a member of the Indonesia National Plastic Action Partnership (Indonesia NPAP) Organizing Committee. Indonesia NPAP is a multi-entity forum involving policymakers, experts, businesses, and civil society organizations, aimed at supporting the national target of reducing marine plastic waste by 70% by 2025 and achieving 100% waste management efficiency by 2040.

Chandra Asri is the Chairman of 3 Industrial Associations, including:



Indonesia
Olefin,
Aromatic,
and Plastics
Industry
Association



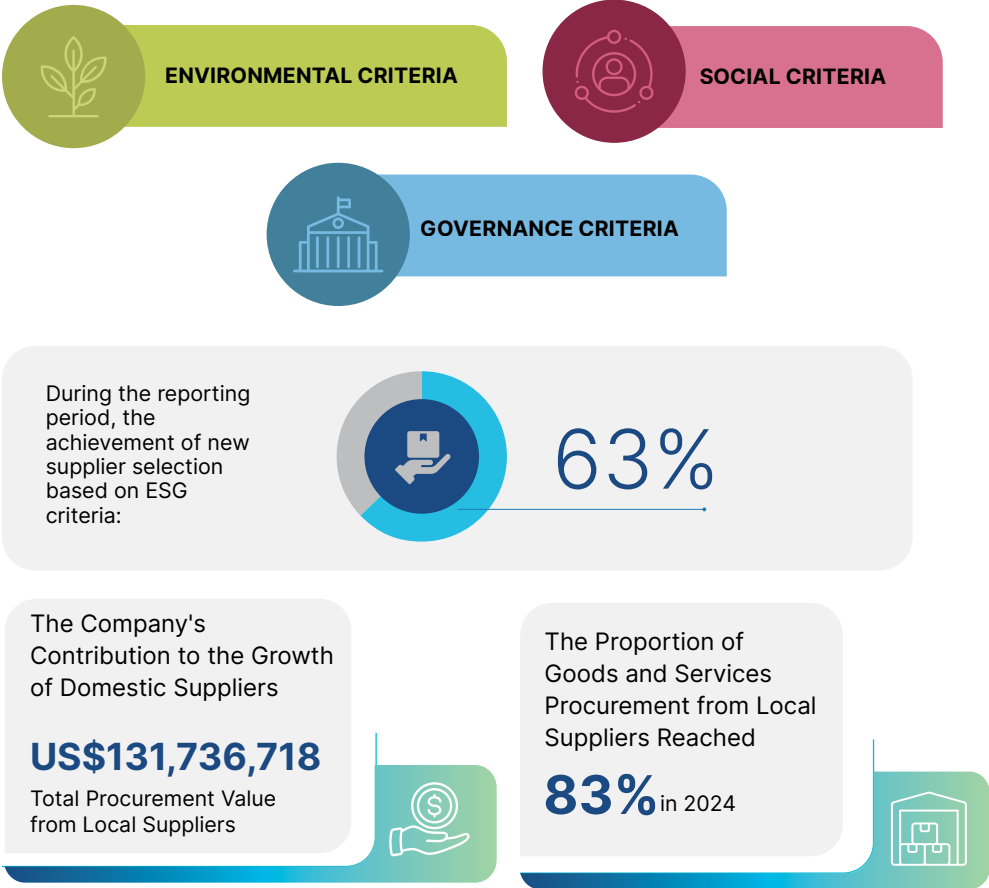
Responsible
Care Indonesia
(RCI)



Federation of
the Indonesian
Chemical
Industry

Sustainable Procurement

Through a structured and transparent supplier selection process, the Company uses a questionnaire designed to assess supplier performance based on ESG criteria.



Green Logistic



Electric (EV) Forklift:

Operating 61 electric forklifts with lithium batteries across four warehouses in the Cilegon area as part of efforts to reduce carbon footprint and improve operational efficiency. The use of these forklifts contributes to a carbon emission reduction of 3.42 tons CO₂e per unit.



Solar Panel:

Using solar energy through rooftop solar panels installed in warehouse areas to support sustainability and reduce dependence on fossil fuels.



Plastic Pallet:

Using plastic pallets, primarily made from recycled plastic. Additionally, plastic wrap is used to protect products from dust, which can be collected and repurposed by third parties as recyclable materials.



Multimodal Transportation:

Implementing rail transportation on Java Island, which helps reduce carbon footprint (estimated at 3,700 tons CO₂e per year), ease traffic congestion, and improve overall transportation efficiency.

*illustration



Investment in new trucks with Euro 4-5 Emission Standards:

Approximately 60 units are currently in the Company's fleet. With improved fuel efficiency and advanced combustion technology, these trucks can reduce carbon emissions by up to 39%.

*illustration

Information Security and Digital Transformation

Chandra Asri Group ensures that the personal data of employees and relevant parties (if applicable) is collected, stored, managed, updated, transferred, and/or deleted by the responsible departments with a precautionary approach, in compliance with applicable personal data protection standards and regulations.



- 1 Obtain information on identity details, legal basis, purpose of Personal Data collection and use, and the accountability of the requesting party;
- 2 Complete, update, and/or correct inaccurate or incorrect Personal Data;
- 3 Access and obtain copies of their Personal Data;
- 4 Cease processing, delete, and/or destroy their Personal Data;
- 5 Withdraw consent for Personal Data processing;
- 6 File objections regarding any decision-making based solely on automated Personal Data processing, including profiling activities that result in significant legal effects on the data subject;
- 7 Delay/restrict Personal Data processing proportionally to its intended purpose; and
- 8 File claims and receive compensation for Personal Data processing violations.

- Chandra Asri Group has established Information Technology Policy and User Access & Security Policy No. D1310-0001-01 to ensure business continuity, minimize security incidents, and protect the privacy of personal information.
- Chandra Asri Group adopts the National Institute of Standards and Technology (NIST) framework for data security management to establish a structured and internationally aligned information security system.
- Vulnerability Assessment (VA) is conducted twice a year to regularly monitor and identify security gaps in the Company's systems

On April 22–30, 2024, the Company held a Security Awareness program on information security, attended by

1,169 employees



Chandra Asri Group is planning to obtain ISO 27001 certification by 2025 as part of its commitment to strengthening information security management.

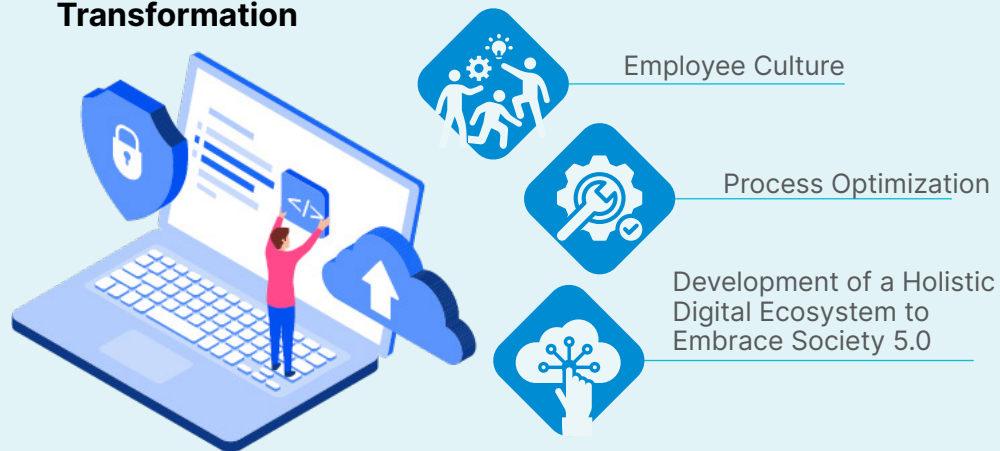
- 0** Information Security Breaches at Critical and High Levels in 2024.
- 0** Complaints regarding privacy breaches and data loss.



Digital Transformation

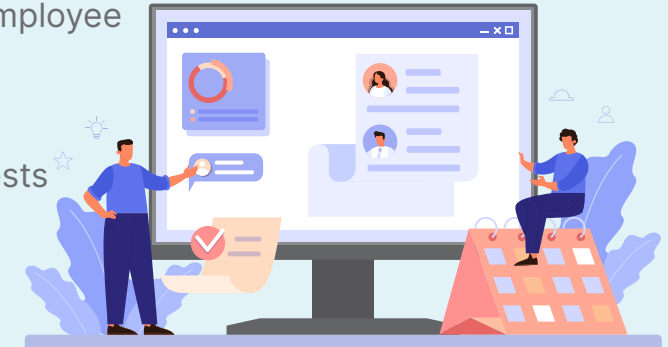
“Chandra Asri Group has implemented digital transformation across various areas, particularly in human resources and manufacturing, as part of an effort to enhance operational efficiency, productivity, and competitiveness.”

Three Pillars of HR Digital Transformation



Digital Transformation in Human Resources Process

1. Recruitment process
2. Onboarding process
3. Organizational management
4. Personnel actions, including hiring, promotions, advancements, and terminations
5. Requests for changes to personal data
6. Requests for changes in employee status
7. Attendance
8. Leave requests
9. Employee document requests
10. HR Helpdesk
11. Recognition
12. Company social media
13. Performance management
14. Talent mapping and succession planning
15. Training and Learning Management System





Digital Transformation in Manufacturing Chandra Asri Group has also implemented digitalization in its manufacturing functions, which are core activities of the Company, as follows:

- 1 Advanced Process Control (APC)
- 2 Asset Information Management System (AIMS)
- 3 Operator Training Simulator (OTS)
- 4 Machine Learning
- 5 Alarm Management System

Chandra Asri Group has been honored with the "National Lighthouse Industry 4.0" award by the Ministry of Industry. This award reflects the Company's commitment to supporting the "**Making Indonesia 4.0 Roadmap**," a government initiative aimed at preparing Indonesia for the Industry 4.0 era. This recognition also reinforces Chandra Asri Group's role as a pioneer in digital transformation, further strengthening its position as a leader in innovation and technology within the industry.



For more information please contact:

Head Office Address:

PT Chandra Asri Pacific Tbk
Wisma Barito Pacific Tower A, 7th Floor
Jl. Let. Jend. S. Parman Kav. 62-63
Jakarta 11410, Indonesia
Phone: (62-21) 530 7950
Fax: (62-21) 530 8930

 @chandraasri.id
 PT Chandra Asri Pacific Tbk
 @ChandraasriID
 @Chandraasri.id
 PT Chandra Asri Pacific Tbk
 PT Chandra Asri Pacific Tbk
 www.chandra-asri.com