



*Reaching  
New Heights*



# REACHING NEW HEIGHTS

MedcoEnergi is the largest private oil & gas company, the second-largest gas producer, and the largest solar operator in Indonesia.

We reached new heights in 2022: a step change in production in our three business segments, our best financial performance ever, world-class safety performance, an increased footprint in and commitment to renewables, and recognition of our ESG achievements.

Starting as a drilling contractor in 1980, we have grown organically and through acquisitions, merging corporate cultures and developing talent and innovation, to become a diverse, resilient and sustainable energy company.

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To be the Energy Company of Choice for investors, shareholders, partners, employees, and communities where we operate.

To build long-term value with a portfolio of sustainable energy and natural resource businesses.

Operational Excellence, Minimum Emission and Waste, Maximum Benefit for Stakeholders



**Oil & Gas**

Production

Development

Exploration



**Power**

Installed

Development



**Mining**

Production

Development

Exploration

**Professional, Ethical, Open, Innovative**

**Superior Assets**

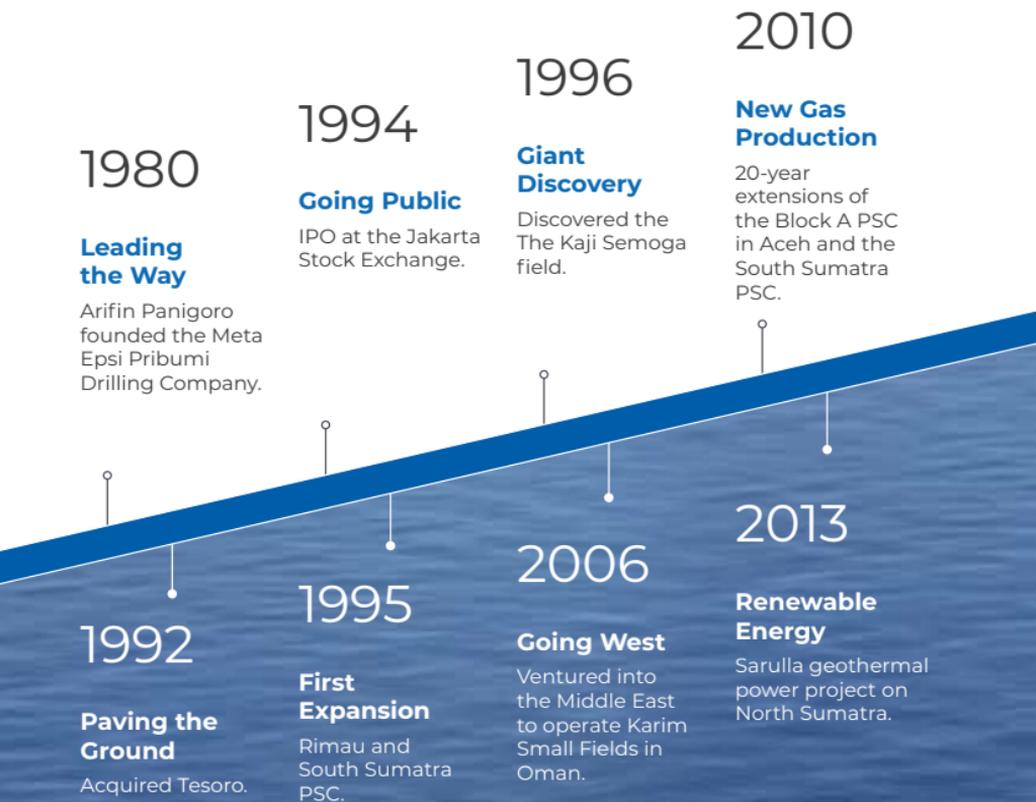
## Business Model

# Sustainable Growth

MedcoEnergi has come a long way from 1980; many innovations have marked our journey.

We have become renowned as a low-cost oil & gas operator, a pioneer in clean power development, and a good corporate citizen.

We strive to manage growth in a sustainable way; always upholding our values of professionalism, ethics, openness, and innovation.



2015

**Upstream-Downstream LNG Operations**

Built Donggi Senoro LNG project, located in Central Sulawesi.

2016

**Expansion**

Acquired South Natuna Sea Block B PSC and Amman Mineral Nusa Tenggara.

2018

**Sustainable Growth**

Commissioned Block A gas development. GRI compliant Sustainability Report.

2019

**A Leader in Southeast Asia**

Acquisition of Ophir Energy plc.

2020

**Weathering the Storm**

Managed through COVID-19.

2021

**Building Our Future**

Senoro Toili PSC extension and acquired ConocoPhillips, Corridor block.

2022

**Reaching New Heights**

Dramatic increase in production through Corridor acquisition; Achieved higher ESG ratings.



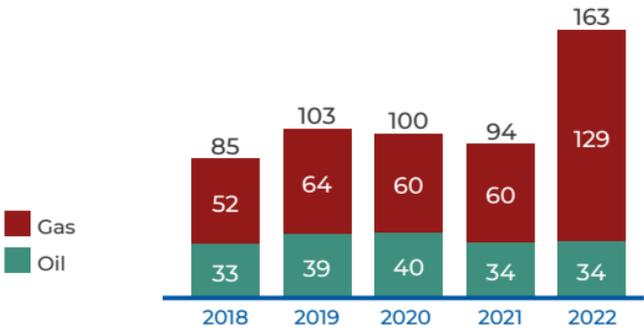
# Business Highlights



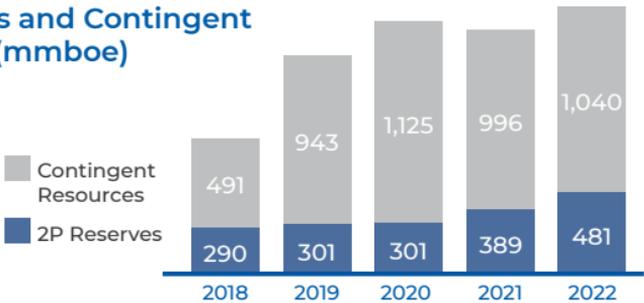
MedcoEnergi has 16 oil & gas production assets, 11 power plants, and owns a portion of a world-class copper and gold mining business. MedcoEnergi is pursuing operational excellence, maintaining cost-efficiencies, and investing in innovations and resources that propel us to the next growth level.



## Oil & Gas Production (MBOEPD)



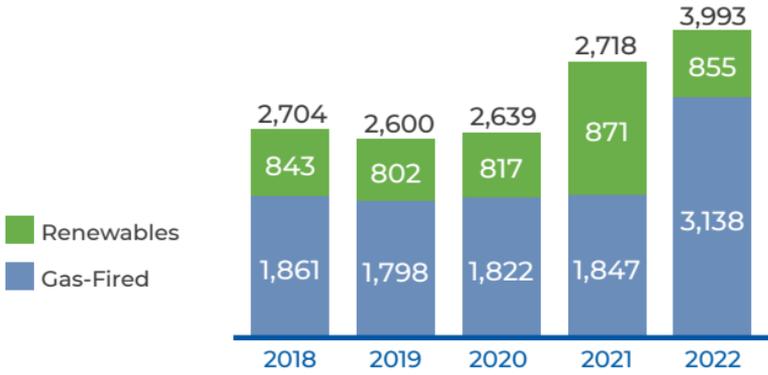
## 2P Reserves and Contingent Resources (mmboe)



As per Full Year 2022 Results



## Power Sales, Gas-Fired & Renewables



**939 MW**  
IPP Power  
Capacity

**7** Operated  
Gas-fired  
IPPs

**1** Operated  
Geothermal  
IPP

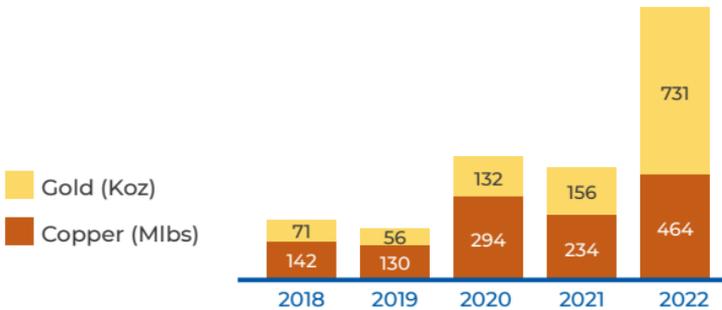
**1,925 MW**  
O&M Power  
Capacity

**2** Operated  
Mini Hydro  
IPPs

**1** Solar PV



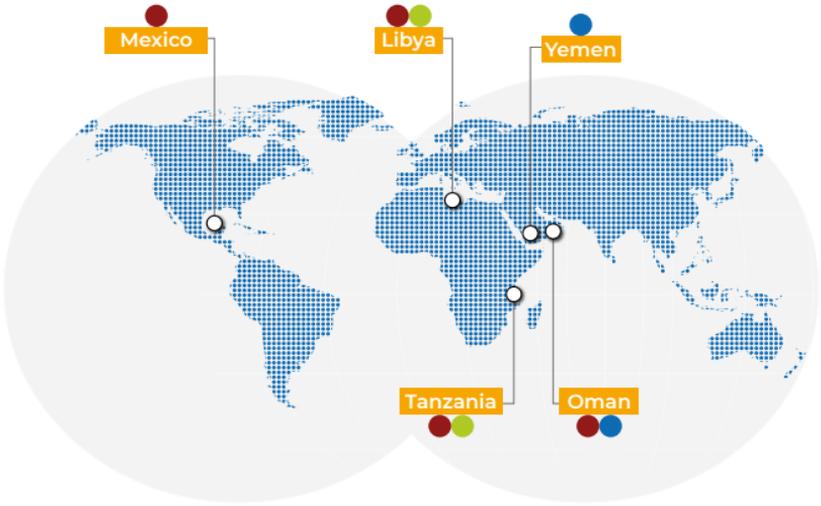
## Copper & Gold Production



**120,000**  
tons/day  
Processing Facilities

**25,000 ha**  
Rights Area





**Oil & Gas**

- Production
- Development
- Exploration



**Power**

- Installed
- Development



**Cooper Mining**

- Production
- Development
- Exploration

## Our People

Strong human capital is the key to long-term success. At MedcoEnergi, we go one step further. Since our establishment in 1980, we have prioritized human resource development, for the company and for the nation.

We believe that investing in the growth and development of our employees is critical to advancing a responsible and impactful community. We foster a sense of social and environmental responsibility through targeted training programs, ensuring that our workforce positively contributes to the greater good.



**4,684**  
Employees



**13,500**  
Contractors



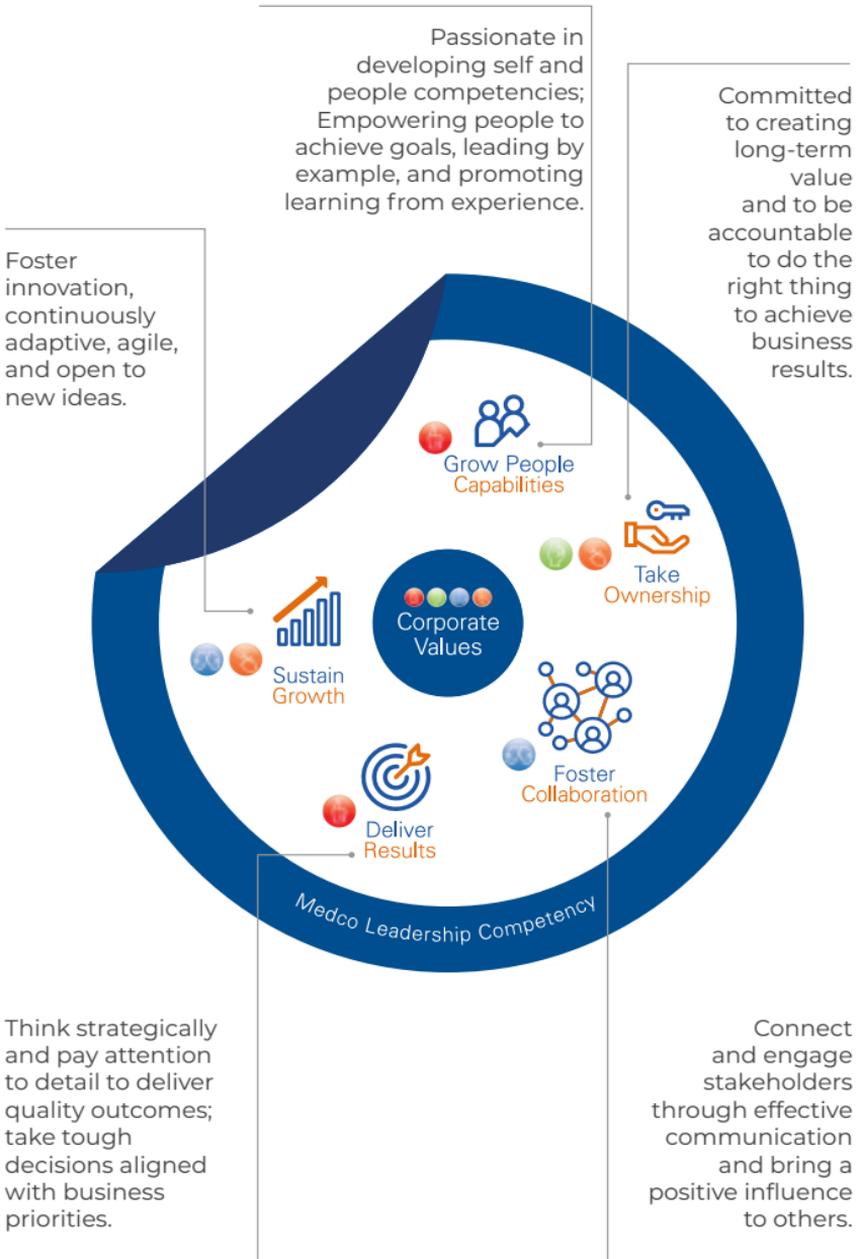
**1,000**  
Petro-Technical  
Professionals



**1,131**  
Training Courses



# Medco Leadership Behaviors



-  Professional
-  Ethical
-  Open
-  Innovative

# People & Organization

MedcoEnergi excels in talent development and organizational integration. In 2022, we acquired and fully integrated Corridor assets - another success in merging talents and organizations. We are developing capabilities to support business goals, strengthening our pipeline of strong and agile leaders, and hiring talent for critical projects and initiatives - including those that support energy transition and business sustainability.

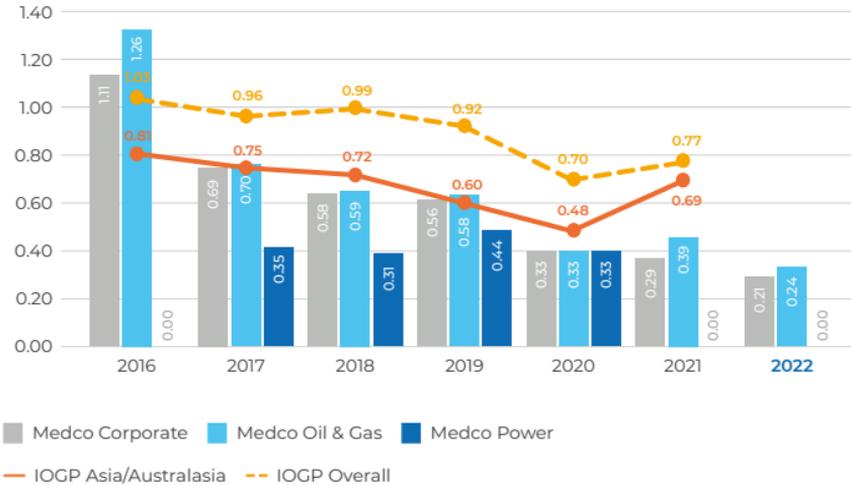
# Safety

Health and safety are paramount at MedcoEnergi; we strive to keep everyone safe and protected with an embedded safety policy and regular training programs. Since 2017, we have constantly performed better than the IOGP, with Medco Power recording zero TRIR in 2021 and 2022. Safety comes first at MedcoEnergi.



## Benchmarking Safety Performance

Oil & Gas, and Power: Total Recordable Incident Rate<sup>1</sup> 2016–2022



<sup>1</sup> The number of recordable injuries (fatalities + lost work day cases + restricted work day cases + medical treatment cases) per million hours worked.

Source for benchmarking: International Association of Oil & Gas Producers (IOGP)





## Oil & Gas – Onshore

MedcoEnergi owns and or operates 14 onshore assets - ten in Indonesia and four abroad, in Yemen, Oman, and Libya. Eleven are production assets.



Asset	Type of Contract	Participating Interest	Status
Corridor, South Sumatra	PSC/gross split post 2023	54%*	Production
Blok A, Aceh	PSC	85%*	Production
South Sumatra, South Sumatra	PSC	65%*	Production
Senoro-Toili, Central Sulawesi	PSC JOB	30%	Production
Rimau, South Sumatra	PSC/gross split post 2023	60%*	Production
Lematang, South Sumatra	PSC	100%*	Production
Tarakan, Kalimantan	Gross split	100%*	Production
Bangkanai, Kerendan, Kalimantan	PSC	70%*	Production
Simenggaris, Kalimantan	PSC JOB	62.5%*	Production
West Bangkanai, Kalimantan	PSC	70%*	Exploration
Block 9 Malik, Yemen	PSA	25%	Production
Karim Small Fields, Oman	Service Agreement	75%*	Production
Block 56, Oman	PSC	5%	Exploration
Area 47, Libya	EPSA IV	50%*	Exploration
		25%	Development

\* Operator

Assets' Production  
in 2022

**130.2**

MBOEPD



**56.5** MBOEPD (2021)

**57.5** MBOEPD (2020)

**68.7** MBOEPD (2019)

**62.8** MBOEPD (2018)

Gas Production  
in 2022

**593.5**

MMSCFD



**201.2** MMSCFD (2021)

**199.2** MMSCFD (2020)

**229.1** MMSCFD (2019)

**198** MMSCFD (2018)

## South Sumatra



The southern area of Sumatra is pivotal in MedcoEnergi's history. It was here, in the Rimau Block, in the Musi Banyuasin Regency of the South Sumatra Province, that we discovered the giant Kaji Semoga field in 1996. The field also witnessed our first EOR technology application in 2012. In 2022, we acquired the Corridor assets and increased overall oil & gas production by a remarkable 73%.

The Corridor PSC has seven producing gas fields and a producing oil field adjacent to MedcoEnergi's existing South Sumatra operations. We completed the transformational acquisition of the Corridor assets and integrated them swiftly into the MedcoEnergi family: systems integration was achieved in just one month and the full integration in eight. Following the integration our oil & gas unit cash costs fell to US\$6.9/BOE from US\$9.8/BOE.



## Oil & Gas – Offshore

MedcoEnergi owns and or operates 11 offshore assets - five in Indonesia and six abroad. Six are production assets.



Asset	Type of Contract	Participating Interest	Status
South Natuna Sea Block B, Riau Islands	PSC	40%*	Production
Madura Offshore, Peluang and Maleo, East Java	PSC	67.5%*	Production
Madura Offshore, Meliwis, East Java	PSC	77.5%*	Production
Sampang, East Java	PSC	45%*	Production
North Sokang, Riau Islands	PSC	100%*	Exploration
Bualuang, Thailand	Royalty and Tax	60%*	Production
Block 12W, Vietnam	PSC	31.8%	Production
Block 10, Mexico	PSC	20%	Exploration
Block 12, Mexico	PSC	20%	Exploration
Block 1, Tanzania	PSA	20%	Exploration and Development
Block 4, Tanzania	PSA	20%	Exploration and Development

\* Operator

Assets' Production  
in 2022

**32.4**

MBOEPD



**37.6** MBOEPD (2021)  
**42.9** MBOEPD (2020)  
**34.1** MBOEPD (2019)  
**21.9** MBOEPD (2018)

Gas Production  
in 2022

**110.6**

MMSCFD



**118.5** MMSCFD (2021)  
**123.1** MMSCFD (2020)  
**112.8** MMSCFD (2019)  
**81.2** MMSCFD (2018)

## Riau Islands



MedcoEnergi operates in offshore areas, in Indonesia and abroad. In the South Natuna Sea near the Riau Islands, we have been exploring, developing, and producing South Natuna Sea Block B as well as exploring the North Sokang Block. Operations in South Natuna Sea Block B include the utilization of Belanak, one of the world's most sophisticated FPSOs.

In 2022, we completed two new subsea wells in the Hiu field, two new wellhead platforms of the Belida Extension project, and constructed facilities for the Forel and Bronang fields. The new Hiu wells were brought online in June 2022 and produced at a combined rate of 35 MMSCFD, while the Belida platforms delivered the first gas from three producing wells at a combined rate of 30 MMSCFD.



## Power

Medco Power Indonesia is now the largest solar PV electricity producer in Indonesia. We also own and operate 11 IPPs: the 275 MW combined-cycle in Riau and other gasfired power plants throughout Indonesia. Our solar pv, geothermal, and mini-hydro power plants are proof of our commitment towards clean energy. In 2022, we sold 3,993 GWh of power; 21% from renewable sources and 79% from gas-fired facilities. These are key elements of meeting our Climate Change Strategy.



### Power Capacity

Plant	Gross Capacity (MW)
<b>IPP</b>	
Mitra Energi Batam	85
Dalle Energi Batam	85
Energi Listrik Batam	76
TM2500	20
Energi Prima ElektriKa	12
Multidaya Prima Elektrindo	12
Sarulla Operations	330
Pembangkitan Pusaka Parahiangan	9
Bio Jatropha Indonesia, Cibalapulang	9
Medco Ratch Power Riau	275
Medco Power Solar Sumbawa	26
<b>Total IPP</b>	<b>939</b>
<b>O&amp;M</b>	
Medco Geothermal Sarulla	330
Tanjung Jati B	1,320
Medco Power Service Indonesia	275
<b>Total O&amp;M</b>	<b>1,925</b>

### Power Generated Sales

Plant	Location	Fuel-Type	2018	2019	2020	2021	2022
Mitra Energi Batam	Batam	Gas	557	586	539	553	551
Dalle Energi Batam	Batam	Gas	618	500	625	629	634
Energi Listrik Batam	Batam	Gas	499	521	521	521	521
TM2500	Batam	Gas	5	33	0	0	0
Energi Prima ElektriKa	South Sumatra	Gas	81	73	67	71	73
Multidaya Prima Elektrindo	South Sumatra	Gas	80	80	69	74	74
Singa	South Sumatra	Gas	21	5	0	0	0
Medco Ratch Power Riau	Riau	Gas	0	0	0	0	1,285
<b>Total Gas (GWh)</b>			<b>1,861</b>	<b>1,798</b>	<b>1,821</b>	<b>1,848</b>	<b>3,138</b>
Sarulla Operations	North Sumatra	Geothermal	809	748	744	791	757
<b>Total Geothermal (GWh)</b>			<b>809</b>	<b>748</b>	<b>744</b>	<b>791</b>	<b>757</b>
Pembangkitan Pusaka Parahiangan	West Java	Mini hydro	11	30	39	41	42
Bio Jatropha Indonesia, Cibalapulang	West Java	Mini hydro	23	24	34	38	33
Sumbawa PV	Sumbawa	Solar PV	0	0	0	0	23
<b>Total Renewables (GWh)</b>			<b>34</b>	<b>54</b>	<b>73</b>	<b>79</b>	<b>98</b>
<b>Grand Total (GWh)</b>			<b>2,704</b>	<b>2,600</b>	<b>2,639</b>	<b>2,718</b>	<b>3,993</b>

## Sumbawa



Indonesia is blessed with ample irradiation for Solar PV, particularly in Nusa Tenggara and Bali. Medco Power has developed and now operates the largest land-based solar PV power plant in the country, the 26 MWp Sumbawa solar PV. It replaces the diesel facility of the AMNT mine with a CO<sub>2</sub> reduction of nearly 40,000 ton/annum.

Medco Power has been delivering sustainable electricity solutions for more than a decade, with the 330MW Sarulla geothermal development, the world largest single-contract geothermal power plant. Also, Medco Power's mini-hydro power plants bring electricity production closer to users in remote areas. We will soon be providing Bali with its first industrial scale solar PV power, thus further contributing to Indonesia's energy transition.



# Mining

PT Amman Mineral Nusa Tenggara is a world class copper-gold producer, operating the Batu Hijau mine in West Sumbawa Regency, West Nusa Tenggara Province. In 2022 AMNT produced 463.9 million pounds of copper and 730.7 thousand troy ounces of gold from Phase 7 ore mining.

Global demand for copper is expected to increase as the metal is a necessary component for the growing electrification in the energy transition.

## Copper and Gold Reserves

### Copper



**17.54**

billion pounds  
(JORC Report 2021)

### Gold



**23.90**

million ounces  
(JORC Report 2021)



## West Nusa Tenggara



Amman is building a smelter on a 150-ha site located 1.5 km from Sumbawa's Benete Bay port with a design capacity of 900,000 tonnes of copper concentrates per year. The development includes an air separation unit to supply the necessary oxygen and nitrogen; a desalination and demineralization plant; sulfuric acid plant, sewage treatment plant, slag concentrator, gas cleaning plant, and other supporting facilities; as well as precious metal refining facilities.

In addition to the Smelter Project, Amman is also constructing a 100 million tonnes per annum ore concentrator plant and a 450 MW combined-cycle gas power plant with an LNG storage and regasification terminal in the Benete Bay area. All these facilities will help to increase our contribution towards Indonesia's energy transition and national economy.

# Our Sustainability Commitment

Our commitment towards Sustainability has been demonstrated by improved ESG performance, acknowledged by mainstream international ESG rating agencies and Carbon Disclosure Project (CDP).

We have established our Climate Change Strategy to achieve net zero Scope 1 and 2 GHG emissions by 2050 and Scope 3 GHG emissions by 2060, with the three strategy pillars in Emissions Reduction, Transition to Low Carbon Energy, and Emerging Physical Climate Risk Management.

## Zero Fatality in 2021 and 2022

USD **2.3** million

CSR Spending Oil & Gas and Power in 2022 an increase of 16.3% compared to 2021

## Climate Change Interim Targets

Oil & Gas Scope 1 & 2 GHG Emissions Reduction<sup>1</sup>



Oil & Gas Methane Emissions Reduction<sup>1</sup>



Renewable Mix Installed Capacity<sup>2</sup>



<sup>1</sup> Reduction from 2019 base year.

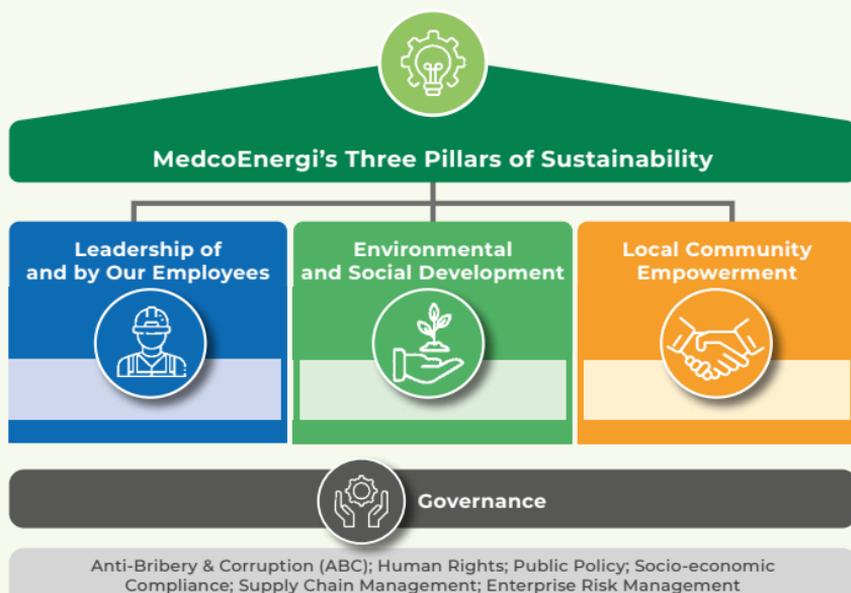
<sup>2</sup> Power renewable equity share installed capacity.



## Direct Economic Value Generated and Distributed<sup>1</sup>

	Value (USD)	Value (USD)	Value (USD)
	2020	2021	2022
<b>Direct Economic Value Generated</b>	<b>1,111,772,590</b>	<b>1,261,224,118</b>	<b>2,351,844,595</b>
Revenues	1,111,772,590	1,261,224,118	2,351,844,595
	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>Economic Value Distributed</b>	<b>945,652,976</b>	<b>1,030,150,606</b>	<b>1,486,511,665</b>
Operating costs	500,371,598	490,056,949	603,068,149
Employee wages and benefits	89,686,142	93,957,547	114,189,195
Payments to providers of capital	282,220,004	222,475,433	259,427,176
Payments to host countries governments	72,353,410	222,831,712	507,971,978
Community investments	1,021,821	828,965	1,855,167
<b>Economic Value Retained</b>	<b>166,119,615</b>	<b>231,073,513</b>	<b>865,332,929</b>

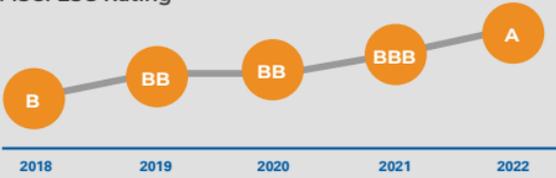
<sup>1</sup> Based on GRI 201: Economic Performance 2016, Disclosure 201-1 Direct economic value generated and distributed.



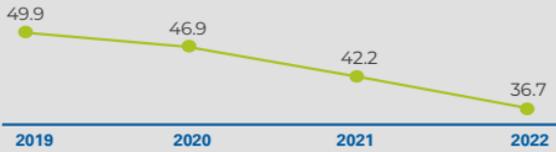
Our Sustainability Policy is mandatory and applicable to all employees and business units. The three pillars are enshrined in our core Corporate Values and Good Corporate Governance Principles, which we uphold vigorously.

We strive to create long-lasting, positive impacts for our stakeholders with three pillars of sustainability: leadership of and by our employees, environmental and social development, and local community empowerment. The pillars reflect our commitment to the protection of people’s health and safety, the safeguarding of the environment and the support of our local communities, and guide us to conduct business with integrity and transparency, to secure our social license to operate.

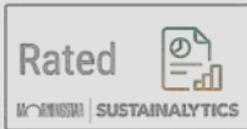
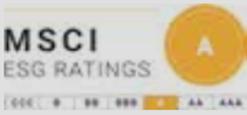
MSCI ESG Rating<sup>1</sup>



Sustainalytics ESG Risk Rating<sup>2</sup>



CDP Score<sup>3</sup>

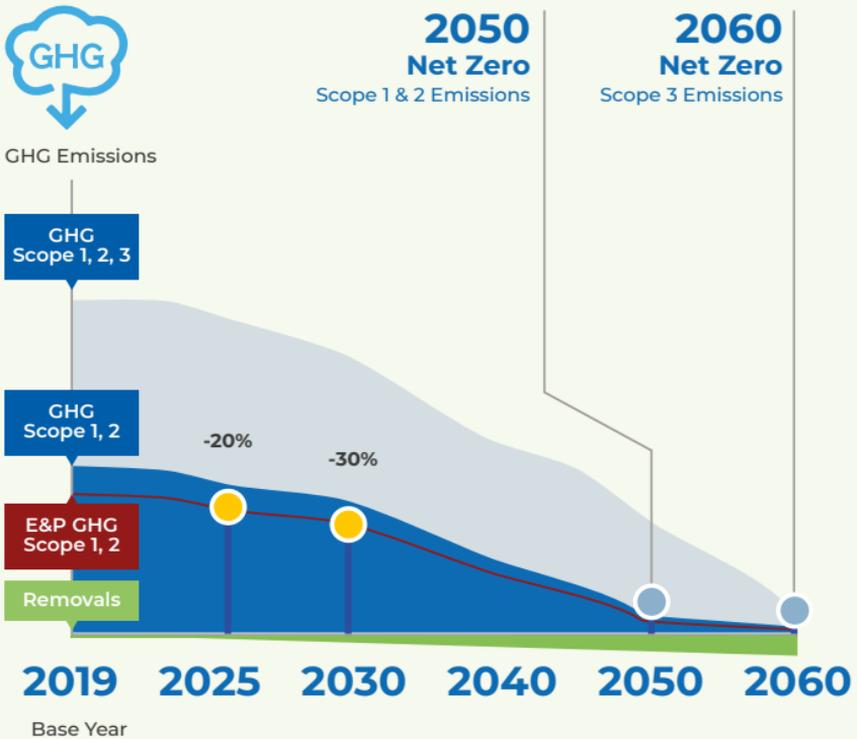
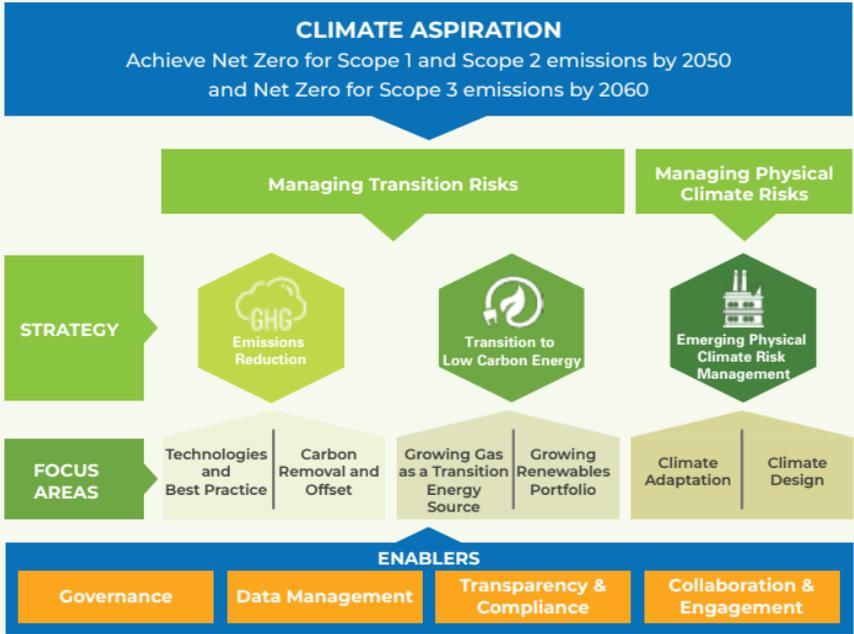


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- 1) As of 2022, PT Medco Energi Internasional Tbk received an MSCI ESG Rating of A.
- 2) Sustainalytics measures a company’s exposure to industry-specific ESG risks and their approach to managing those risks.
- 3) A CDP score provides a snapshot of a company’s disclosure and environmental performance.

# Environment



This graph is an illustration of the GHG emissions and offsets trajectory to achieve Net Zero and does not describe MedcoEnergi's projected GHG emissions and carbon offsets.


**Committed to the Environment**

	2020	2021	2022
Emissions (Scope 1 and Scope 2) (million tCO <sub>2</sub> e)	<b>4.8</b> Oil & Gas	<b>4.6</b> (↓3%) Oil & Gas	<b>4.4</b> (↓5%) Oil & Gas
	<b>0.8</b> Power	<b>0.9</b> (↑10%) Power	<b>1.4</b> (↑59%) Power
Energy Consumption (million GJ)	<b>34.8</b> Oil & Gas	<b>36.6</b> (↑5%) Oil & Gas	<b>37.0</b> (↑1%) Oil & Gas
	<b>8.6</b> Power	<b>9.5</b> (↑11%) Power	<b>14.4</b> (↑51%) Power
Water Withdrawal (thousand m <sup>3</sup> )	<b>7,800</b> Oil & Gas	<b>7,075</b> (↓9%) Oil & Gas	<b>7,025</b> (↓1%) Oil & Gas
	<b>221</b> Power	<b>16</b> (↓93%) Power	<b>87</b> (↑443%) Power
Non-hazardous Waste Generation (tonnes)	<b>1,153</b> Oil & Gas	<b>897</b> (↓22%) Oil & Gas	<b>1,958</b> (↑118%) Oil & Gas
	<b>105</b> Power	<b>121</b> (↑15%) Power	<b>63</b> (↓48%) Power
Hazardous Waste Generation (tonnes)	<b>2,532</b> Oil & Gas	<b>1,914</b> (↓24%) Oil & Gas	<b>4,200</b> (↑119%) Oil & Gas
	<b>40</b> Power	<b>56</b> (↑38%) Power	<b>45</b> (↑18%) Power
Biodiversity and Conservation Initiatives	<b>469 hectares</b> Total Planted Area Leasehold of Forest Area (IPPKH)	<b>68 hectares</b> Total Planted Area Leasehold of Forest Area (IPPKH)	<b>228 hectares</b> Total Planted Area Forest Area Usage Approval (PPKH, formerly IPPKH)
	<b>13 hectares</b> Total Planted Area Beyond regulatory requirements	<b>12 hectares</b> Total Planted Area Beyond regulatory requirements	<b>28 hectares</b> Total Planted Area Beyond regulatory requirements

Following the Corridor acquisition, we incorporated data from the new asset into energy, water, waste, emission, and revegetation for 2020 and 2021. In addition, we re-calculated our water withdrawal figures for 2020-2021 for Madura Offshore asset to include cooling water consumption and for 2021 Mitra Energi Batam (MEB) to incorporate all fresh water withdrawal sources. This revised calculation resulted in an increase in oil & gas and power environmental indicators.

## Renewable Energy Projects



**Solar PV projects:**  
Sumbawa 26MWp, Bali 25MWp, and Bulan Island 670MWp.



**Mini-Hydro power plant:**  
Cibalapulang and Pusaka Parahiangan 9MW in West Java.



**Geothermal project:**  
Sarulla 330MW in North Sumatra.

## Our Commitment to the Communities

We are committed to creating a positive impact on surrounding communities in our operational areas. We conduct an Environmental, Social and Health Impact Assessment (ESHIA) study of all projects and develop an Environmental, Social and Health Management Plan (ESHMP) to minimise negative impacts and amplify positive benefits for the surrounding communities, including vulnerable groups. We aim to create opportunities for communities by sourcing local talent and encouraging our contractors to do likewise.

Furthermore, we manage community development programs to foster self-reliance in local communities in our operational areas.

There are three key focus areas:



### Natural Resources and Local Wisdom

Community development programs are developed based on natural resources and local wisdom within local communities to foster sustainable growth.



### Empowerment

Community empowerment process is aimed to improve the ability of communities to become self-reliant according to self- and environmental-potentials.



### Stakeholder Engagement

Stakeholder engagement is carried out to obtain social license to operate and community development programme implementation.

MedcoEnergi establishes and supports multi-year programmes tailored to meet the specific needs of communities in our operational areas. Here, our investments have almost doubled in the last three years.



Programme (USD)	2020	2021	2022
Sustainable livelihoods	625,353	524,287	1,132,176
Infrastructure development	754,992	1,031,951	905,129
Others	377,088	425,754	267,103
<b>Total</b>	<b>1,757,433</b>	<b>1,981,992</b>	<b>2,304,408</b>

## Community Development Highlight Program

We implement a SROI (Social Return on Investment) framework to quantify the social, environmental and economic value of our community development programmes to improve decision-making. For instance, with the SROI method, we have evaluated MedcoEnergi's Digital-based Smart School Programme and discovered that the programme generated a value of approximately IDR2.15 billion against a total investment of IDR627.37 million. This SROI value of 3.42 indicating that each IDR 1 investment yielded benefits valued at IDR3.42, It became an important factor to understand the outcomes of desk-based research, interviews, and FGDs with key stakeholders, conducted during the evaluation of the programme.









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