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Snapshot of Adaro Energy





Lost-time injury frequency rate (LTIFR) 0.12 in 2021



Employees ~12,000



Restored Land 2,596 Ha



Countries Served 13



2021 Operational EBITDA

US\$2.1 billion



Production 52.7 million



2021 Revenue US\$3.99 billion

Indonesia's leading integrated energy group adaro

8 pillars supporting sustainable growth



Main operating pillars: pit-to-power integration

Thermal and metallurgical coal operations in Indonesia and Australia

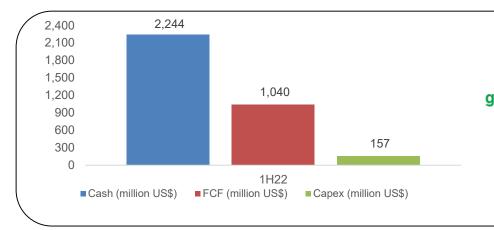
Mining and logistics contractors to support the group's operations Operates coal-fired and renewable power plants. Focused on development of green energy sources: hydro, solar, wind.



Supporting pillars

Develops forest areas for carbon absorption, ecosystem restoration, and manages operational land aspects.

Water treatment, NRW management, and water solution services. Investment arm to capture overseas investment opportunities. Non-profit foundation coordinating the group's CSR activities.



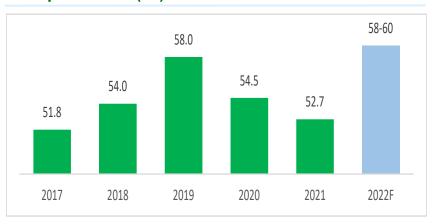
Solid financial position and strong liquidity enable the group to capture growth opportunities across the energy ecosystem

On track to meet FY22 guidance

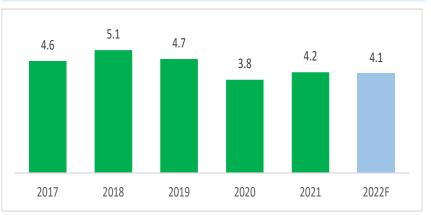


provides cash to invest in EV value chain and renewables

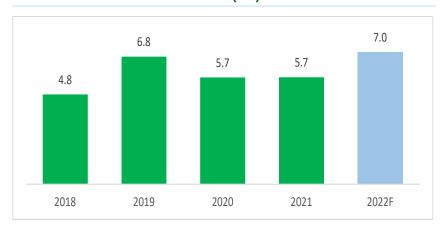
Coal production (Mt)



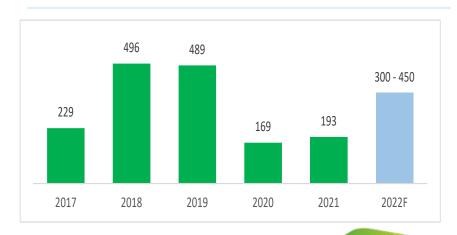
Consolidated planned strip ratio (bcm/t)



Kestrel MetCoal Production (Mt)



Consolidated Capital expenditure (\$m)



One of Indonesia's largest IPPs



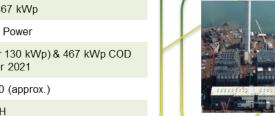
Adaro Power's gross power generation capacity stands at 2,260 MW



Makmur S	ejahtera Wisesa – CFPP
Size / Tech.	2 x 30 MW CFB technology
Shareholders	100% Adaro Power
COD	#1 Jun 2013, #2 Feb 2014
Availability Factor	94% (Avg. up to the end of 1H22)
Adaro Mining Electrification	Current: 11.7 MW Plan: additional 17.9 MW



Makmur	Sejahtera Wisesa – Solar PV
Size	130 kWp + 467 kWp
Shareholder	100% Adaro Power
COD	Q3 2018 (for 130 kWp) & 467 kWp COD 27 December 2021
Project cost	USD 800,000 (approx.)
Electricity produced	191,857 kWH





Tanjung Power Indonesia – CFPP					
Size / Tech.	2 x 100 MW CFB technology				
Shareholders	65% AP, 35% Korea EWP				
Project cost	USD 545 million				
COD	2019				
Availability Factor	86% (Avg. up to the end of 1H22)				



	Bhimasena Power Indonesia - CFPP
Size / Tech.	2 x 1,000 MW Ultra Super Critical
Shareholders	34% AP, 34% JPower, 32% Itochu
Project cost	USD 4.2 billion
Progress	97.7% as of end of 2Q22

Apart from improving the performance of its alreadyoperated power plants and completing the construction, Adaro Power continues to study renewable power projects such as biomass, wind power, and solar PV to support PLN through unsolicited proposal and tenders. Adaro Power is also in the process of developing captive use power generation projects for the Group's other business units such as IBT (Genset & Solar PV) and AMI (Mini-hydro)

The value of the Green Economy



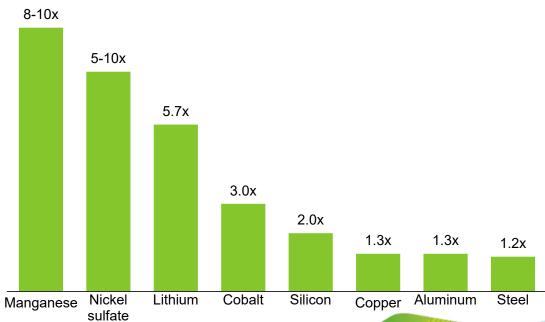
investment opportunities in Indonesia are substantial



Growing demand for

Green minerals

Global demand in 2030 as multiple of 2020-level

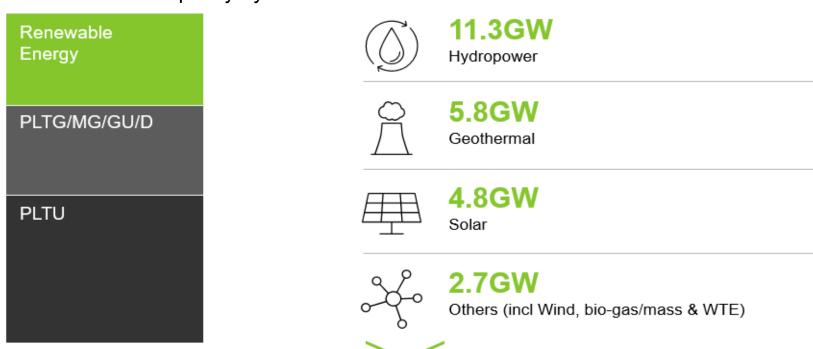


25GW of green energy needs by 2030



In Indonesia, before accounting for increased demand for processing green minerals

102GW of installed capacity by 2030



The increased demand for green minerals will drive further need for green energy

Source: RUPTL 2021-2030

The Green Economy

Driving demand for Green Minerals





More Aluminium used in electric vehicles

Nickel needed in a single car lithium-ion **35** kg battery pack

than internal combustion engines

30%

Lithium needed in a single car lithium-ion 8 kg battery pack

Wind technology Aluminium

Metallurgical coal needed to produce 90 Steel for each MW of wind power tons Steel needed for each MW of wind

120 power tons

ton

Aluminium in a single wind turbine



Polysilicon needed for each MW solar PV plant tons

Aluminium demand from the solar **4M** power sector by 2040

tons

Adaro is well positioned



to capture these opportunities, now and in the future

Adaro	has the necessary skillset	to capture these opportunities
\$	Strong balance sheet and financial capabilities	Operating metallurgical coal mine in Indonesia & Australia
	Proven track record in building and operating large-scale, complex projects	Building a 500K tons <u>aluminium</u> smelter
<u></u>	Deep experience and knowledge in Indonesia's mining sector	Building one of the world's largest green industrial estates in North Kalimantan, including plans to build several GW of

Adaro will continue to explore opportunities to serve the green mineral needs of the new economy

The world's largest Green Industrial Park



Being developed by Adaro in North Kalimantan

- Located in a very strategic location in terms of export & import, and potential supply of mineral sources and smelting industries
- Total area of 16,000 Ha, consists of 2 (two)
 large overlay area 11,500 Ha and 4,700 Ha
- Potential development of a large-scale public port to support the industrial logistics
- Huge potential of Hydro Power Plants development to power the industrial estate



More than 10 GW power potential







1st Project: Aluminium Smelter

adaro

Scope of project is 1.5mt of Aluminium production

Hydro Power Addition









Full Phase:

Additional capacity of up to 500,000 tpa of Green Aluminum powered by Hydro Power which will be ready by 2029

Estimated COD: Q4 2029

Phase II:

Potential replication of Phase 1
Additional production capacity of up to 500,000 tpa aluminum powered by gas and coal-fired power plant

Estimated COD: Q4 2026

Phase I:

Production Capacity: 500,000 tpa aluminum with man-power up to 1,000 powered by coal fired power plant.

Estimated COD: Q1 2025



Recently energized captive solar PV



~600 kWp to supply to our mining area



- We have installed 130 kWp PV Rooftop, and another 468 kWp PV Floating (so far the biggest installed floating PV in Indonesia)
- The project is expected to generate 156,000 kWh/year and serves a captive market to support Adaro Group's mining operation.
- Environmental impact of this project includes replacing 33,000 liters of diesel per year, and avoiding emission of 98 ton CO2/year.









Financials That Will Drive the Transition

Adaro Energy Indonesia's Performance



Continue to deliver consistent results and strong cash flows

OPERATIONAL	1H22	1H21	Change
Production (Mt)	28.01	26.49	6%
Sales (Mt)	27.50	25.78	7%
OB removal (Mbcm)	102.05	115.22	-11%
FINANCIAL (US\$ millions, unless indicated)	1H22	1H21	Change
Net Revenue	3,541	1,563	127%
Core Earnings	1,447	330	338%
Operational EBITDA	2,339	635	269%
Cash	2,244	1,208	86%
Net Debt (Cash)	(770)	305	-352%
Capex	157	74	112%
Free Cash Flow	1,040	324	221%
Operational EBITDA Margin	66.1%	40.6%	2545 bps
Net Debt (Cash) to Equity (x)	(0.14)	0.08	-2153 bps
Net Debt (Cash) to Last 12 months Operational EBITDA (x)	(0.20)	0.29	-4923 bps
Cash from Operations to Capex (x)	8.63	5.38	325 bps

Adaro Minerals MetCoal Business

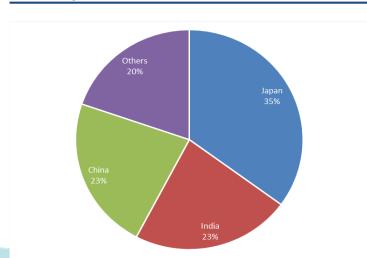


supports the Steel Industry a key component in Wind Turbine and the Solar Industry

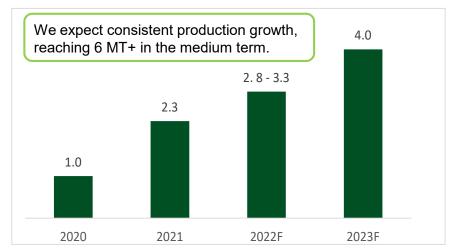
Adaro Minerals key financial highlights

OPERATIONAL	1H22
Production (Mt)	1.53
Sales (Mt)	1.28
OB removal (Mbcm)	3.50
FINANCIAL (US\$ thousands, unless indicated)	1H22
Net Revenue	436
Core Earnings	207
Total Asset	1,139
Operational EBITDAMargin	66.1%

Sales by Destination 1H22



Adaro Minerals metcoal production (Mt)



Adaro Minerals Strip Ratio Remains Very Low







Adaro Energy

Why Adaro



Solid Foundation	•	Integrated	l energy	/ company	/ with	strong	footing	in the	energy	ındust	ry.
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Value Creation

Always seek to increase our value-creation capability

Positioned for Sustainable Growth

 Integrated business model enables us to control cost and manage risks better, ensuring business sustainability.

Capturing Opportunities in Green Economy

 Well positioned to capture the opportunity through AMI, which will focus on managing and developing our non-coal mineral assets.

Consistent Dividend Payment and Shareholder Return

Cumulatively from 2008, we have paid approximately **US\$1.7 billion** in dividends with average payout ratio of **46%**.

Industry Leading Cost Position

 Cost competitiveness resulted in one of the highest operational EBITDA margins in the sector, reaching 53% of operational EBITDA margin in 2021.

Experienced Management Team

Management has been consistent with strategy execution while also being nimble in reacting to business developments

Commitment to ESG

- PT Adaro Indonesia received 4th PROPER Gold Award
- MSCI maintains our BBB ESG rating to reflect our improved environmental performance.

Large Coal Reserves and Diverse Portfolioadaro across Indonesia and Australia

Adaro Indonesia: 88.5% Existing, S Kalimantan sub-bituminous Reserves: 731 Mt

Resources: 3.3 Bt

Balangan Coal Companies: S Kalimantan sub-bituminous Reserves 125Mt Resources: 265 Mt

. Adaro Minerals Indonesia Tbk (AMI): Central and East Kalimantan Metallurgical coal Reserves: 171 Mt Resources: 980 Mt

MIP: 75% stake S Sumatra sub-bituminous Reserves 210.2 Mt Resources 305 Mt

AEI has more than 8.5 billion tonnes (Bt) of coal resources and 1.4 Bt of coal reserves across thermal and metallurgical coal - providing us with flexibility in the coal market.

BEE: 61.04% stake S Sumatra sub-bituminous Geological study phase

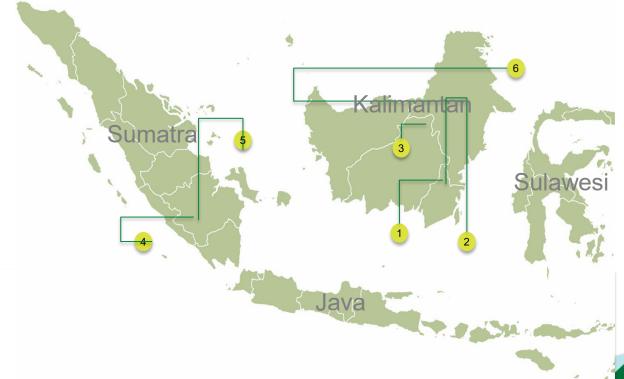
BEP: 10.22% stake with option to acquire 90% E Kalimantan sub-bituminous

Resources 3.3 Bt

Kestrel Coal Mine 48% of 80% Queensland, Australia Premium HCC Reserves: 190 Mt

Resources: 430.5 Mt





Note: Reserves and Resources numbers above are before taking into account AEI's equity ownership

Integrated Business Model

with control over each part of the supply chain



100%

65%

34%

ADAROMINING

THERMAL COAL

Adaro Indonesia (AI) 88.5% Coal mining, S. Kalimantan

Balangan Coal 75% Coal Mining, S. Kalimantan

Mustika Indah Permai 75% (MIP)

Coal Mining, S. Sumatra

Bukit Enim Energi (BEE) 61% Coal Mining, S. Sumatra

Bhakti Energi Persada 10.2% (BEP)

Coal mining, E. Kalimantan

METALLURGICAL COAL

83.8%

PT Adaro Minerals Indonesia Tbk (AMI)

Coal mining, C. Kalimantan, E. Kalimantan

Kestrel Coal Resources¹ 48% Queensland, Australia

1) Kestrel Coal Resources has 80% ownership on Kestrel Coal Mine



ADAROSERVICES

MINING SERVICES

Saptaindra Sejati (SIS)
Coal mining and hauling
contractor

Jasapower Indonesia (JPI)
Operator of overburden
crusher and conveyor

Adaro Jasabara Indonesia 100% (AJI)

Mining services

Adaro Mining Technologies 100% (AMT)

Coal research & development

COAL TRADING

90%

Coaltrade Services International Pte. Ltd (CTI)

Coal Trader



ADAROLOGISTICS

Maritim Barito Perkasa 100% (MBP)

Barging & Shipping

Sarana Daya Mandiri 51.2% (SDM)

Dredging & maintenance in Barito River mouth

Indonesia Multi Purpose 100% Terminal (IMPT)

Port management & terminal operator

Indonesia Bulk Terminal 100% (IBT)

Coal terminal & fuel storage

Maintenance services

Puradika Bongkar 100% Muat Makmur (PBMM) Cargo loading & unloading

Harapan Bahtera Internusa 100% (HBI)
Shipping administration

Barito Galangan Nusantara 100% (BGN)

ADAROPOWER

Makmur Sejahtera Wisesa (MSW)

Operator of 2x30MW minemouth power plant in S. Kalimantan

Operator of Solar PV at Al's mine site in S. Kalimantan

Tanjung Power Indonesia (TPI)

Partner in 2x100MW power plant project in S. Kalimantan

Bhimasena Power Indonesia (BPI)

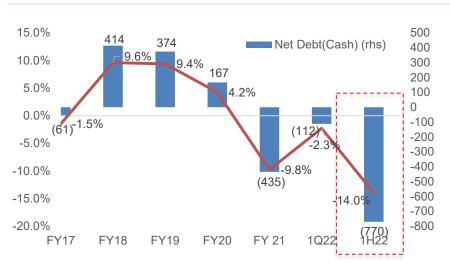
Partner in 2x1000MW power generation project in Central Java



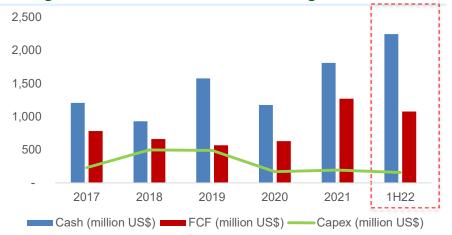
Solid Financials Backed by Strong Operations



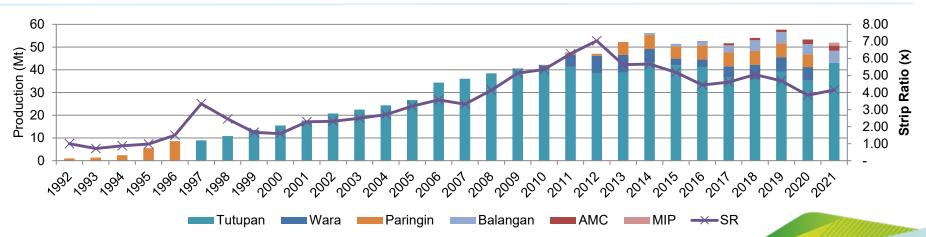
Financial position continues to improve



Strong cash balance and free cash flow generation



Almost three decades of production experience through various coal cycles



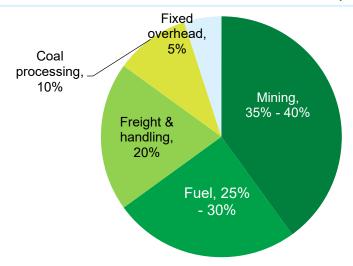
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Industry Leading Efficiency

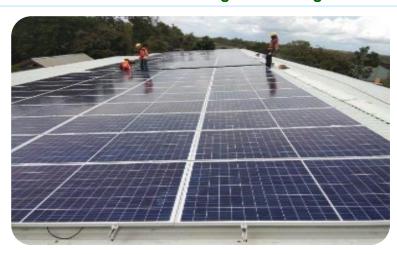




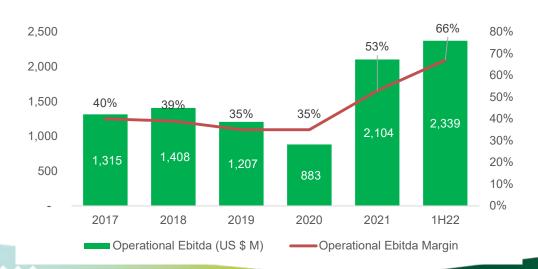
Adaro's estimated coal cash cost breakdown (1H22)



Electrification to reduce the usage of diesel gensets



Strong operational EBITDA generation and healthy operational EBITDA margin

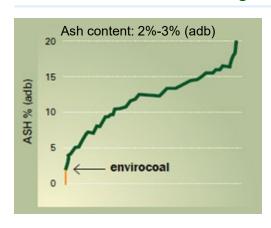


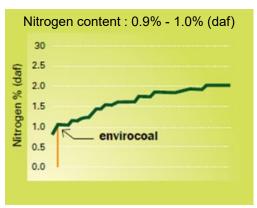
- Consistently delivers on operational EBITDA target and performed in-line with guidance.
- Healthy operational EBITDA margin on the back of better cost control from integrated business model.

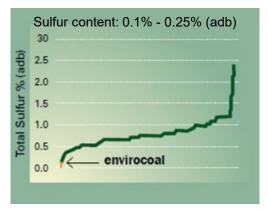
Well Positioned Product and Strong Customer Base Focused on Asia



Envirocoal is among the lowest pollutant content coal in the seaborne market



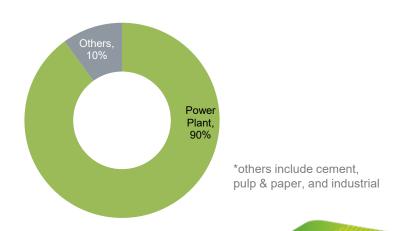




Customer geographical breakdown (1H22)



Customer type by volume (1H22)





adaro Minerals

PT Adaro
Minerals
Indonesia Tbk
(AMI)

Adaro Minerals Indonesia at a Glance



Indonesia's leading metallurgical coal producer with low -cost, efficient operation supported by Adaro Group's integrated supply chain network



Five CCoW holders located in Central and East Kalimantan, Indonesia.



Large coal reserves and resources base which supports long-term sustainable growth.

Coal reserves: 170.7 Mt. Coal resources: 980 Mt.



Coal production in 2021 reached 2.3 Mt, and coal production target in 2022 is 2.8 - 3.3 Mt (\triangle 22% - 43% y-o-y).



Strong demand profile from blue-chip steel companies. Current customers are located in China, Japan and Indonesia.



Offers coal **supply diversification** for customers in a market dominated by Australia, Canada and the US.

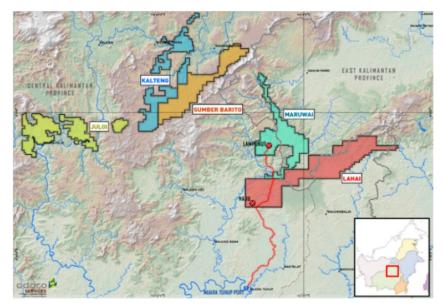


Close proximity to key markets offers customers with more **competitive cost** and shorter transportation time.

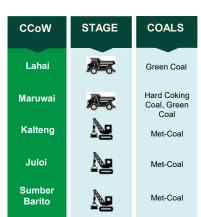
Company Overview - ADMR



- Established in 2007, AMI carries out an integrated mining activities through its subsidiaries, which has one of the largest greenfields area in Central Kalimantan for metallurgical coal.
- The Company's subsidiaries own 5 Coal Contract Of Work ("CCoW") located in East Kalimantan and Central Kalimantan with total area up to 146,579 ha.
- The 5 CCoWs are in the operation and production operation development stages: Maruwai Coal is currently operating and selling metallurgical coal, Lahai Coal is conducting mining optimization, meanwhile Kalteng Coal, Sumber Barito Coal and Juloi Coal are in development phase.









Cokes

Notes : 🧸 Operation

Production Operation Development

Large Coal Resource and Reserves



Coal Resource

Company / Locality	Total Coal Resources (Mt)	Measured (Mt)	Indicated (Mt)	Inferred (Mt)	Compliance Standard
LC - Haju (Green Coal)	4.4	3.8	0.4	0.1	JORC
MC - Lampunut (Metallurgical and Green Coal)	105.4	98.4	6.9	0.2	JORC
JC - Juloi Northwest (Metallurgical)	629.8	-	269.6	360.3	JORC
JC - Bumbun (Metallurgical)	174.5	60.4	57.8	56.4	JORC
KC - Luon (Metallurgical)	50.9	24.7	19.3	6.9	JORC
SBC - Dahlia Arwana (Metallurgical)	15.0	6.5	6.5	2.0	JORC
TOTAL	980.0	193.8	360.5	425.7	

One of the largest undeveloped met coal reserves and resources globally

Premium quality hard coking coal with low ash, low phosposrus, and high vitrinite content

Coal Reserves

Company / Locality	Total Coal Reserves (Mt)	Proved (Mt)	Probable (Mt)	Compliance Standard
LC - Haju (Green Coal)	2.3	2.3	0.03	JORC
MC - Lampunut (Metallurgical and Green Coal)	89.6	81.2	8.4	JORC
JC - Bumbun (Metallurgical)	55.5	-	55.5	JORC
KC - Luon (Metallurgical)	17.7	-	17.7	JORC
SBC - Dahlia Arwana (Metallurgical)	5.6	-	5.6	JORC
TOTAL	170.7	83.4	87.2	

Long reserves life,

based on current production

*Coal Reserves and Resources data is as of August 2021 from independent consultant PT Quantus Consultants Indonesia

Established Infrastructure to Ensure Operational Excellence



Lampunut Coal Handling and Processing Plant



- One of the largest CHPPs in Indonesia in terms of capacity
- Reduces ash from 12% ad to 4.5% ad
- Performance test completed in November 2020

WASHING – 3 Process Circuit



DMC 1.4 – 50 mm



Hydrocyclone & Spiral 0.25 – 1.4 mm

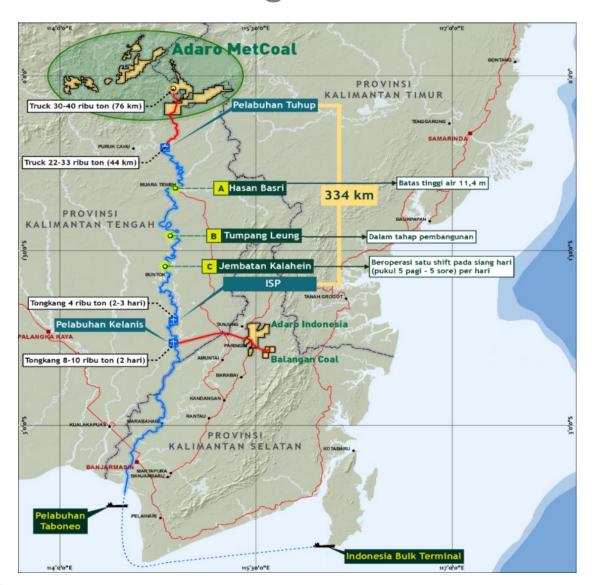


Floatation 0.25 mm



Supply Chain: from Coal Terminal to Vessel Loading Points





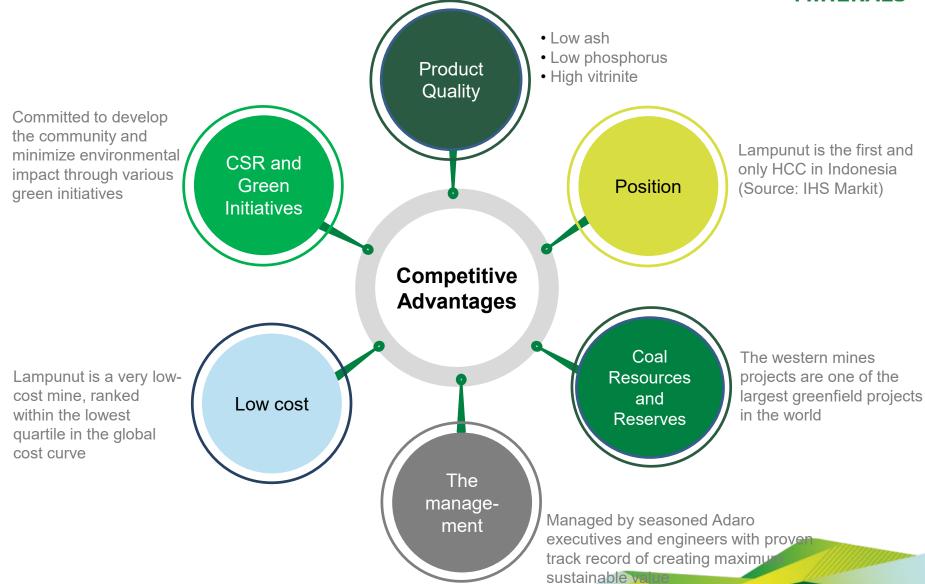






Competitive Advantages





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PT Adaro Indo Aluminium (AIA)

PT Adaro Indo Aluminium



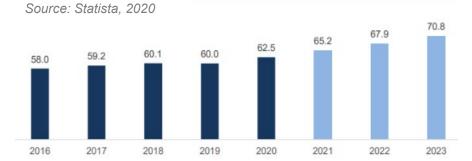


Increasing revenue contribution from non-coal to balance our business Supporting Government's plan on green industry and processing of mineral product Looking to partner with reliable and experienced companies Development process will be conducted in stages Positive LT outlook as aluminum is needed in many industries including automotive Reduce aluminum imports, create job opportunities and contribute to state revenue

Global Demand Outlook



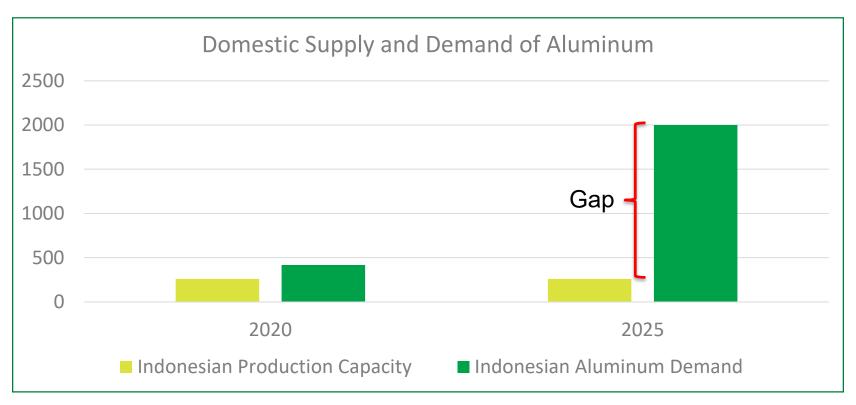
Industry	2018	2040	Remarks
Transportation	25MT	43MT	 Higher demand for electric vehicle, especially for battery packaging and heat sink. Penetration to reduce vehicle weight and use of gasoline.
Building and Construction	22MT	29MT	Urbanization and growing construction industry.Penetration for building materials.
Consumer and Industrial	15MT	21MT	Increasing demand for consumer and industrial products.
Packaging	13MT	19MT	Increasing demand for tin packaging.Increasing demand for foil and plastic substitution.
Energy	11MT	16MT	 Increasing demand for energy sector application, such as solar panel structure. Copper substitute for transmission cable.



- Demand for aluminum is estimated to increase on the back of economic growth in Asia.
- Demand for aluminum will be supported by the increase in transportation sector, in line with the commitment of global citizen and the transportation industry to increase the production of new energy vehicle.

Domestic Supply and Demand Balance





Source: Pre-Feasibility Study Guiyang Aluminum Magnesium Design & Research Institute Corp. Ltd.

The high gap between supply and demand of aluminum in Indonesia will potentially increase the country's reliance on imported aluminum.





Adaro Water

Adaro Water



Owns & Operates 1,670 lps of Water Treatment Plants

Also Supports Mining Operations through Slurry Management Business Unit



Dumai Tirta Persada

Location : Dumai, Riau Size : 450 lps

Adaro Shares : 49%

Status : First phase

(50 lps)

completed



Grenex Tirta Mandiri

Location : Bekasi, West Java

Size : 200 lps

Adaro Shares : 49%

Status : Started construction



Drupadi Tirta Gresik

Location : Gresik, East Java

Size : 400 lps Adaro Shares : 100%

Status : In operation

since 2012



Adaro Wamco Prima

Location : Tanjung,

South Kalimantan

Business : Mining pump

services

Adaro Shares : 60%

Status : Operation



Drupadi Tirta Intan

Location : Banjar, South Kalimantan

Size : 500 lps Adaro Shares : 100%

Status : In operation since 2012



Adaro Tirta Mentaya

Location : Sampit, Central Kalimantan

Size : 320 lps (contract), 400 lps (capacity)

Adaro Shares : 90%

Status : In operation upto 250 lps



Adaro Water is currently in the process to achieve operational excellence through continuous improvement in its operating subsidiaries, including WTPs operations and slurry pumps operations. Meanwhile, on the construction side, Adaro Water continues to ensure that the project can achieve its goals in terms of schedule, budget & quality. From business development perspective, Adaro Water continues to actively seeking for new projects through PPP, non PPP and acquisition.





Sustainability and Green Initiatives

Balance of People, Planet and Profit



We strive to balance our responsibilities among the generation of profit, the utilization of planet and employment of people.



Our environmental programs cover four main areas:

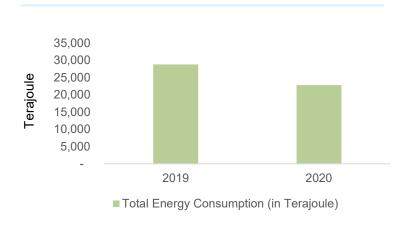
land, air, water, and biodiversity.

PT Adaro Energy Indonesia Tbk is rated BBB on MSCI ESG ratings.

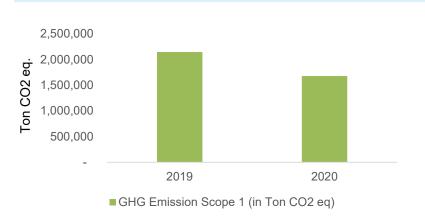
Improving Environmental Performance



Reduced total energy consumption by 21% y-o-y



...and reduced GHG emission (scope 1) by 22% y-o-y



Innovative projects to improve efficiency and environmental performance

Fleet Management System reduces queueing time and energy used





Kelanis Smart Inverter Solar Cell reduces diesel usage and CO2 emission

Ecosystem Restoration and Carbon Capture







Through Adaro Land Pillar, we have subsidiaries which own forest management permits for ecosystem restoration and forest management permits for carbon absorption.

PT Alam Sukses Lestari holds license to use timber product – ecosystem restoration in natural forest which allows restoration of forest ecosystem to achieve balanced biodiversity.

PT Hutan Amanah Lestari holds license for utilization of carbon absorption and is one of the largest holders of such license in Indonesia. We expect that once operational, carbon trading will be the main business of this company.

Reclamation and Rehabilitation





Awards and Recognitions



2012	2013	2014	2015	2016
PROPER gold award Ministry of Environment & Forestry	PROPER green award Ministry of Environment & Forestry	PROPER green award Ministry of Environment & Forestry	PROPER green award Ministry of Environment & Forestry	PROPER green award Ministry of Environment& Forestry
Aditama gold award For environment excellence in the coal sector Ministry of Energy & mineral resources Social empowerment award Won nine awards honoring companies that run CSR programs Ministry of Human Dev	Aditama gold award For environmental excellence in the coal sector Ministry of Energy & mineral resources Global CSR bronze award For sustainable clean water program Pinnacle Group Global CSR	Aditama gold award For environmental excellence in the coal sector Ministry of Energy & mineral resources Bronze sustainability award For sustainable investment RobecoSAM	Cultural based community empowerment award Awards in several categories Corporate Forum for Community Development & Ministry of Human Dev Bakti Husada award For community health development Ministry of Health	Global CSR bronze award For community-led sanitation Annual Global CSR & Summi Padmamitra award For poverty alleviation Ministry of Social Affairs
2017	2018	2019	2020	2021
PROPER green award Ministry of Environment & Forestry	PROPER green award Ministry of Environment & Forestry	PROPER gold award Ministry of Environment & Forestry	PROPER gold award Ministry of Environment & Forestry	PROPER gold award Ministry of Environment & Forestry
Aditama gold award For environment excellence in the coal sector Ministry of Energy & mineral resources	Aditama gold award For environment excellence in the coal sector Ministry of Energy & mineral resources	Global CSR award, one gold and two silver For early childhood education program, CSR Leadership and environmental excellence in leader program.	MSCI ESG Ratings upgraded to BB MSCI Charity and Community Impact	MSCI ESG Ratings upgrade to BBB MSCI Best Environmental Excellence Award - Silver
	Best of coal mining service	Annual Global CSR & Summit	Coaltrans Asia	Global CSR Summit & Award



adaro

Adaro Services and Adaro Logistics

Ensuring Operational Excellence



Key part of our vertical integration.

Ensures operational excellence, productivity improvement and timely reliable delivery to customers.

Stable earnings profile buffers against the volatility in coal price.

Focus on providing services for companies in the Adaro Group.



		Units	1H22	1H21	1H22 vs 1H21
SIS	Overburden Removal	Mbcm	84.55	80.46	5%
	Coal Transport to Port	Mt	26.85	19.02	41%
MBP	Coal barging	Mt	25.96	24.55	6%

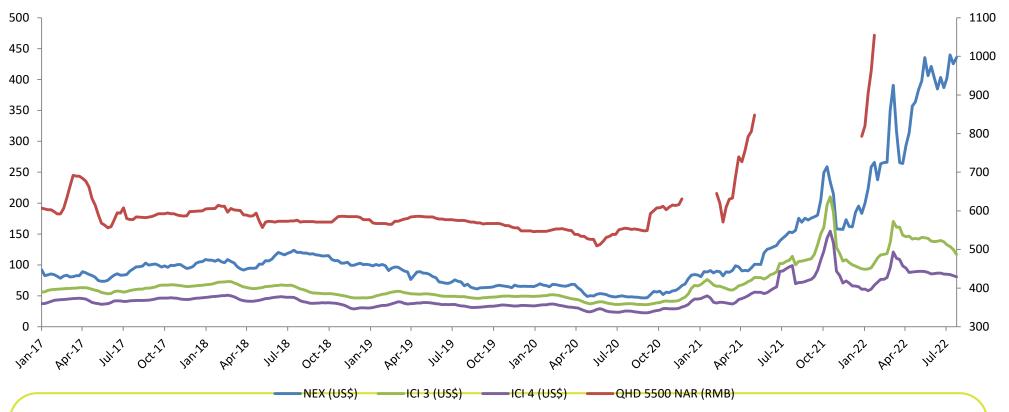




Industry Outlook

Prices Remain Near Historical Highs



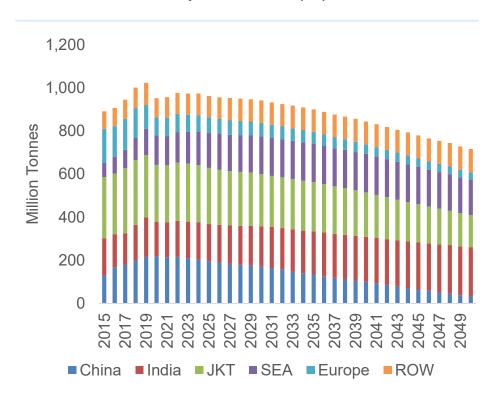


- Prices have remained volatile at high levels.
- Demand from India and Southeast Asia has supported Indonesian thermal coal imports due to inclement weather and also supply crunch.
- Australian and Indonesian thermal coal supply has underperformed over the first four months vs last year.
- Prices for benchmark Australian coal and Harga Batu Bara Acuan (HBA) have reached historical highs.

Long Run Demand Remains Significant



Global thermal coal imports demand (Mt)



Source: McCloskey by OPIS, a Dow Jones Company ("McCloskey")



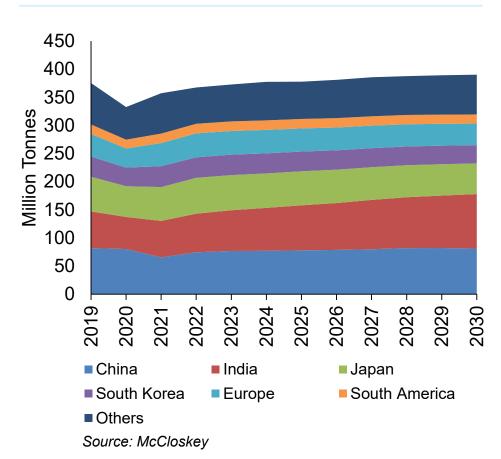
- Despite push towards renewable energy, emerging economies in Asia still rely on coal for electricity generation due to its availability and affordability.
- As the world aims to reduce carbon emission, demand for coal will be affected.



Robust Demand Outlook



Global metallurgical coal imports demand (Mt)



- The long-term demand fundamentals for metallurgical coal remain intact, underpinned by infrastructure growth. Steel production and consumption is forecasted to grow. Met coal demand is expected to reach nearly 400 Mt in 2030.
- India is expected to be the growth driver and China's demand is forecasted to remain stable in the next decade.



Southeast Asia is A Key Market



SEA electricity demand more than double to 2040

2 000 1 600 1 200 800 400 0 2010 2018 2020 2025 2030 2035 2040

Notes: TWh = terawatt-hours

Source: Southeast Asia Energy Outlook 2019, International Energy Agency 2019

ASEAN (5) steel demand grows moderately in the short-term



ASEAN (5): Indonesia, Malaysia, Philippines, Thailand, Vietnam Source: Worldsteel Association Short Range Outlook, April 2021

Overview of Southeast Asia

- The region is home to around 655 million people and 45 million people is still without access to electricity.
- Its growth in electricity demand, at 6% CAGR, has been among the fastest in the world as the region aims for universal access to electricity by 2030.
- Coal has been the fastest growing fuel in SEA's energy mix, nearly 20 GW of coal-fired power plant is under construction (IEA).
- Coal with low pollutant content will be more favoured in the market as many countries try to control emission and new power plants utilize advanced boiler system.

Regulatory Updates



Conversion of CCOW to IUPK

- Continuation of Al's CCOW.
- Government Regulation (PP No 15 of 2022) stipulates the changes in the commercial terms: royalty rate, CIT rate, and additional profit sharing with the regional and central government.

		CCOW	IUPK
1	Royalty rate	13.5%	14% - 28%
2	CIT	45%	22%
3	Profit Sharing (from net income)		
	- Central Gov't	-	4%
	- Regional Gov't	-	6%

There could be an impact on concession size that we expect to be minor.

Change in the royalty rate of IUP

• This would impact MIP and Balangan Coal mines, representing approximately 15% of our 2022 production target. The royalty going forward will be based on HBA pricing and could increase to between 7% and 10.5% from 3-5% currently.

Proposed Regulatory Updates



Public Service Agency or Badan Layanan Umum (BLU)

- The Ministry of Energy and Mineral Resources (ESDM) has applied for a principle permit to form a Coal Special Entity or Public Service Agency (BLU) as a coal fee-collecting institution.
- The BLU is to maintain availability of coal supply for domestic needs
- The coal price benchmark for BLU fee and compensation is proposed to be CV-based
- The price of coal for PLN's electricity generation needs is proposed to be market based, while the BLU is proposed to be tasked with collecting fees from coal companies to cover the difference between the market price and the price for the domestic market obligation (DMO) of US\$ 70 per ton for PLN.
- BLU is proposed to also cover DMO of non-PLN industries, excluding smelter industry
- Implementation target is 4Q22

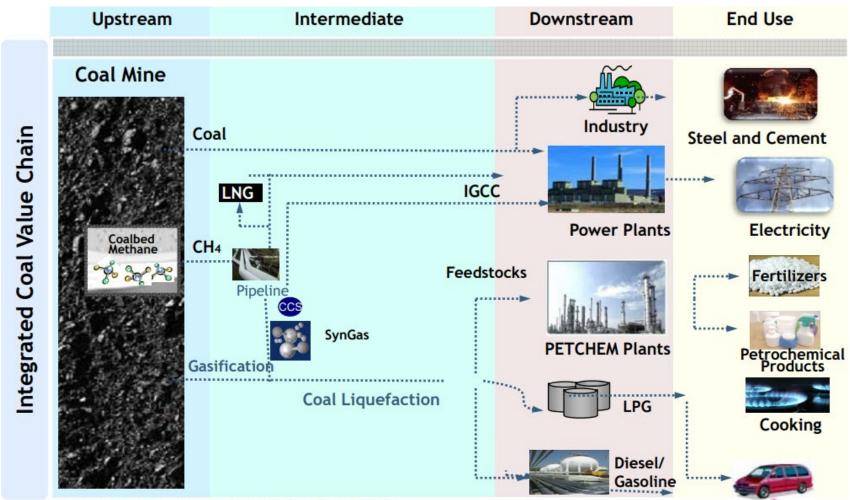




Appendix: Coal 101

Explaining the Value Chain

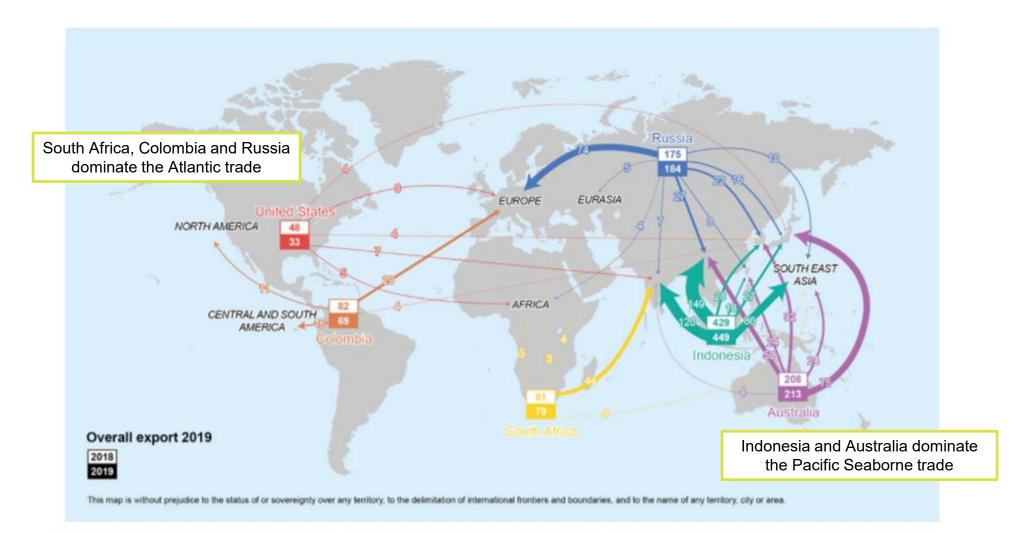




Remark: IGCC = Integrated Gas Combined Cycle

Seaborne Trade Routes





Source: IEA, 2020

How does pricing work?



Different coal types from different regions have distinct quality.

Indices are used to price different coal quality:

Global Coal NEWC Index

the benchmark price for seaborne thermal coal in the Asia-Pacific region.

Indonesia's Harga Batubara Acuan

(HBA) comprising of: Indonesian Coal Index (ICI), gCN, and Platts 5900.

QHD FOB (6,000 kc NAR)

marker assess the price of Chinese coal that is being shipped into the domestic Chinese markets at the port of Qinhuangdao.

RB Index

a coal price benchmark high CV thermal coal delivered FOB Richards Bay Coal Terminal in South Africa.

DES ARA

coal price benchmark for high CV thermal coal delivered at the ports of Amsterdam / Rotterdam / Antwerp