



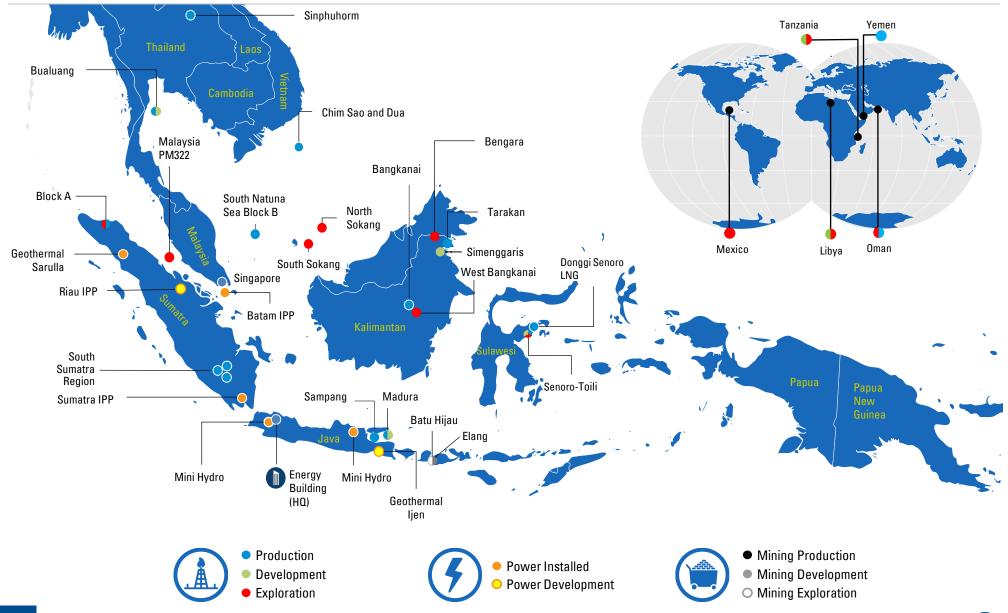
# **FACT BOOK 1H2020**

PT Medco Energi Internasional Tbk. (IDX Ticker: MEDC)



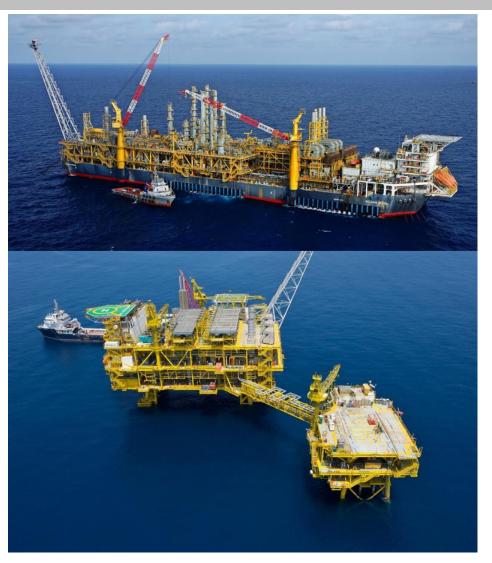
# Oil and Gas Assets

## **Asset Portfolio**

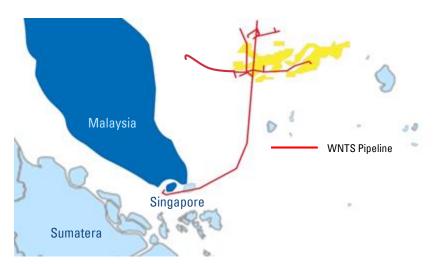


# South Natuna Sea Block B, Indonesia

#### World-class offshore operational capabilities

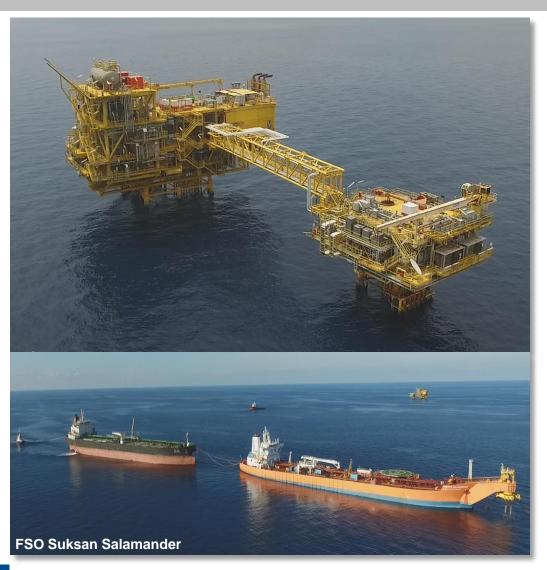


- MedcoEnergi operated offshore PSC in the South Natuna Sea, world class facilities, large hydrocarbon base, license expires October 2028
- MedcoEnergi also operates the West Natuna Transportation System (WNTS), a 500 km 28" gas trunk line with access to Singapore and Malaysia
- Commodity linked and fixed escalated priced gas sales into Singapore and Malaysia
- Near field exploration, subsea & platform development, and production optimization will extend field life and decline rate
- Successful exploration discoveries in Bronang-2, Kaci-2, and Terubuk-5

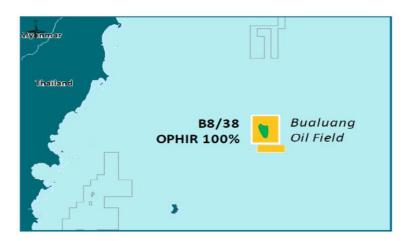


# **Bualuang Field, B8/38 Concession, Thailand**

#### Phase 4B development completed April 2020

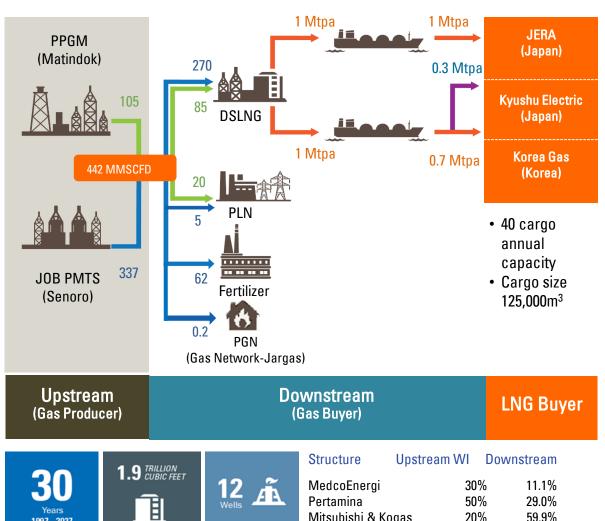


- Facilities: 3 bridge-linked wellhead platforms with water processing connected via export pipeline to FSO.
- Current development wells: 38 oil producers and 5 water disposal wells. All production wells with ESPs.
- Phase 4B project completed May 2020 consisting of 3rd wellhead platform, 12 addition wells and increased processing capacity
- Current oil production 10,500 bopd



# Senoro-Toili, Indonesia

#### Integrated – Midstream phased gas development



Mitsubishi & Kogas

20%

59.9%

- Joint Operated onshore license, first production Q3 2015. Contract expires in 2027
- Daily maximum production 310 MMSCFD
- In 2020 additional volume in DSLNG increased to 270 MMSCFD
- Gross proved reserves of 0.91 TCF with additional 2.7 TCF Gross Contingent Resources
- **Progressing Senoro Phase 2**



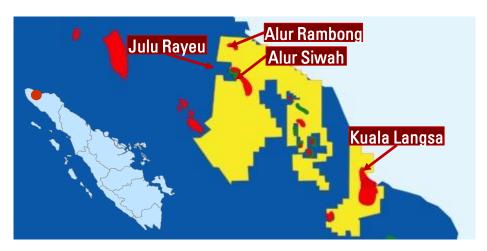
1997 - 2027

## **Block A Aceh, Indonesia**

Phase I will monetize 237 TBTU of gas and 5.17 MMBO of condensate for the domestic market

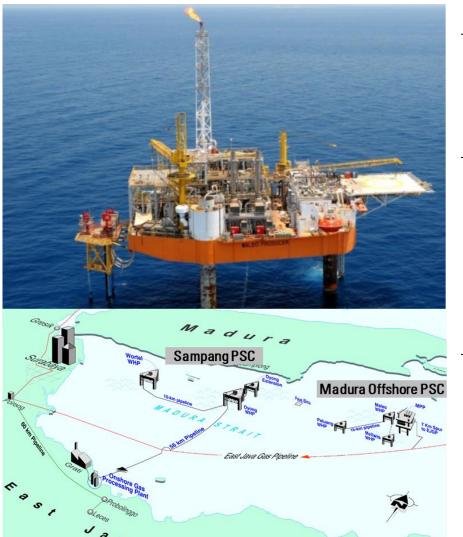


- Operated onshore license, complex HPHT drilling and development
- Over US\$600mn Development, Project Financed by 15 International banks
- First gas August 1, 2018. PSC expires in 2031. GSA with Pertamina, total volume of 198 TBTU over 13 years
- Remote location. Successful CSR engagement with local community and awards from the regional Government of Aceh
- Phase 2 and 3 development of gas discoveries with gross Contingent Resources of > 5 TCF, to generate up to 1 GW to support Sumatra electricity demand growth



# Madura Offshore and Sampang, Indonesia

#### Stable production with upside in Meliwis and Sampang development



#### Madura Offshore

 Gas from Maleo & Peluang fields and Meliwis are processed on Maleo Production Platform (MPP) and sold to PGN and PLN via East Java Gas Pipeline (EJGP)

#### Sampang

- Following a successful gas exploration well at Paus Biru-1 (27 km East of Oyong), working towards with reserves certification, POD, GSA and FID
- Gas from Oyong and Wortel fields are delivered via upstream pipeline to Grati Onshore Processing Facility and sold to PT Indonesia Power

#### Meliwis

- Gas from Meliwis field is delivered and sold to PGN
- Meliwis wellhead platform and subsea pipeline installation are completed and Meliwis-2ST well was completed and deliver 1<sup>st</sup> gas on 13 July 2020. Target production of ~20 MMSCFD.

# Chim Sao/Dua Fields, 12W PSC, Vietnam

Managing natural decline through well interventions and infill drilling



- Current production oil 17,000 boepd
- Production through Lewek EMAS FPSO
- Chim Sao wells are tied back from a 20-slot Well Head Platform
- 3 Dua wells are subsea completions with subsea tie-back to the FPSO



# South Sumatra Region Assets, Indonesia

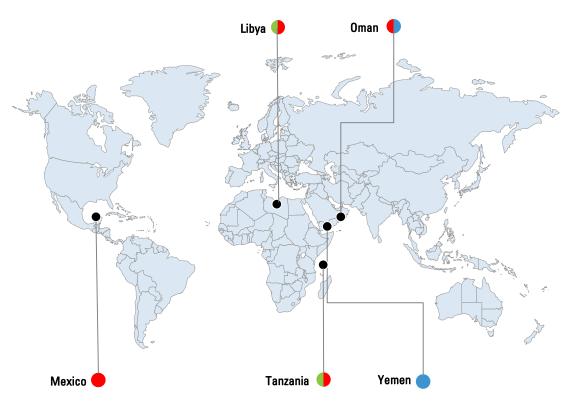
Extensive experience in managing decline and controlling costs on maturing assets



- Rimau produces oil and sold to dedicated pipeline to Pertamina Plaju refinery. The block obtained 20 years extension in PSC Gross Split terms starting 2023.
- South Sumatra is gas producing asset with 11 Gas contracts.
   Gas is sold under fixed-price TOP GSAs to PGN, PLN and industries within the area.
- Lematang produces High Pressure High Temperature gas from two active gas wells. Gas is sold under fixed-price TOP GSAs to PGN & PLN.



### **Other International Assets**



Development

Production

**Exploration** 

- Oman: Service contract for the Karim Small Fields with net production ~ 7.5 MBOPD. Exploration Block 56 (50% operated working interest).
- Yemen: Block 9 (25% non-operated interest) Restarted production in March 2019, after 4 years
  shut-in due to security situation. Gross production
  5 MBOPD.
- Tanzania: Deepwater Blocks 1&4 (20% nonoperated interest). Contains 10 discoveries with 15
  TCF certified contingent resource. Tanzania LNG
  Project in pre-development phase. Engagement
  with the Government of Tanzania continues to
  focus on establishing key commercial terms for a
  cost competitive development.
- Libya: Area 47 Development asset with gross discovered 2P reserves of 254 MMBOE. The Company is in discussion with NOC to execute a Fast Track Facilities development plan.
- Mexico: Awarded Blocks 10 and 12 in the Mexico deepwater license round in 2018. Drilling of the first exploration wells in 2021.

MEDCOENERGI (M)



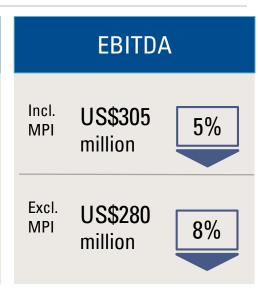
# Financials and Guidance

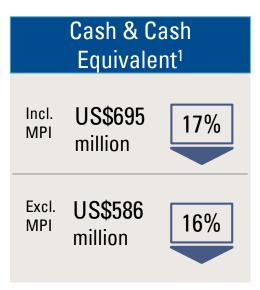
# **Financial Statistics (1H19 vs 1H20)**

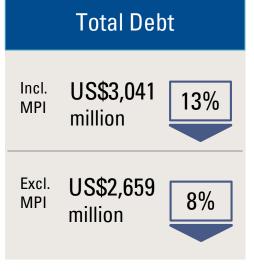
# Average Realized Price Oil Price US\$38.7 39% /bbl Gas Price US\$5.5 /MMBTU 20%





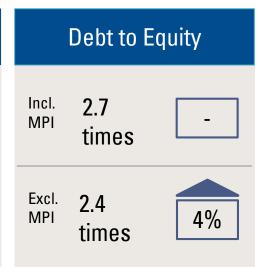






INCL	. שטו נט ב	אטווטא
Incl. MPI	3.8 times	7%
Excl. MPI	3.7 times	3%

Net Debt to FRITDA



# **Consolidated Financial performance**

Profit & Loss (US\$ M)	1H19	1H20	YoY $\Delta$ %
Revenue	597	552	(7.6)
- Oil and gas	531	471	(11.3)
- Power	65	79	21.3
- Others	1	2	172.2
DDA	(84)	(172)	104.0
Gross Profit	325	203	(37.6)
S, G & A	(88)	(71)	(19.2)
Operating Income	237	132	(44.4)
EBITDA (excl. asset held for sale)	323	305	(5.4)
Net Income	28	(96)	(443.7)

Profitability Ratios (%)	1H19	1H20	YoY ∆%
Gross Margin	54.4	36.7	(32.5)
Operating Margin	39.7	23.9	(39.8)
EBITDA Margin	54.1	55.3	2.3
Net Income Margin	4.7	(17.4)	(471.8)

Balance Sheet (US\$ mn)	FY19	1H20	YoY Δ%
Cash and cash equivalents <sup>1</sup>	596	695	16.7
Investments	961	972	1.2
Fixed Assets	2,163	2,298	6.3
Total Assets	6,007	6,331	5.4
Total Liabilities	4,650	5,071	9.0
• Loans	1,095	606	(44.6)
Capital Market Debts	2,100	2,434	15.9
Other Liabilities	1,455	2,030	39.5
Equity	1,356	1,260	(7.1)

Financial Ratios (x)	FY19	1H20	YoY $\Delta\%$
Current Ratio	2.4	2.0	(17.7)
Debt to Equity	2.6	2.7	3.5
EBITDA to Interest	2.6	2.4	(7.7)
Net Debt to EBITDA	3.9	3.8	(2.4)

<sup>1)</sup> Includes restricted cash

# Financial performance: excluding Medco Power

Profit & Loss (US\$ M)	1H19	1H20	ΥοΥ Δ%
Revenue	531	472	(11.1)
- Oil and gas	531	471	(11.3)
- Others	1	2	172.2
DDA	(82)	(169)	106.5
Gross Profit	297	168	(43.5)
S, G & A	(76)	(58)	(23.6)
Operating Income	221	110	(50.2)
EBITDA (excl. asset held for sale)	304	280	(7.7)
Net Income	20	(99)	(600.4)

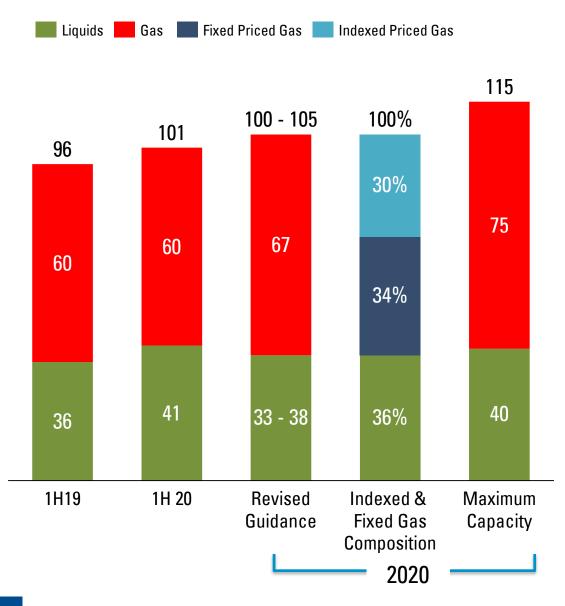
Balance Sheet (US\$ mn)	FY19	1H20	YoY $\Delta$ %
Cash and cash equivalents <sup>1</sup>	433	586	35.4
Investments	961	972	1.2
Fixed Assets	2,125	2,248	5.8
Total Assets	4,623	5,215	12.8
Total Liabilities	3,772	4,116	9.1
• Loans	517	367	(28.9)
Capital Market Debts	1,954	2,292	17.3
Other Liabilities	1,301	1,457	12.0
Equity	1,181	1,099	(7.0)

Profitability Ratios (%)	1H19	1H20	ΥοΥ Δ%
Gross Margin	55.9	35.6	(36.4)
Operating Margin	41.7	23.3	(44.0)
EBITDA Margin	57.2	59.4	3.8
Net Income Margin	3.7	(21.0)	(662.9)

Financial Ratios (x)	FY19	1H20	YoY∆%
Current Ratio	2.3	2.4	5.2
Debt to Equity	2.2	2.6	16.3
EBITDA to Interest	2.9	2.5	(14.0)
Net Debt to EBITDA	3.4	3.7	7.8

<sup>&</sup>lt;sup>1</sup> Includes restricted cash

## **2020 Guidance: Production**



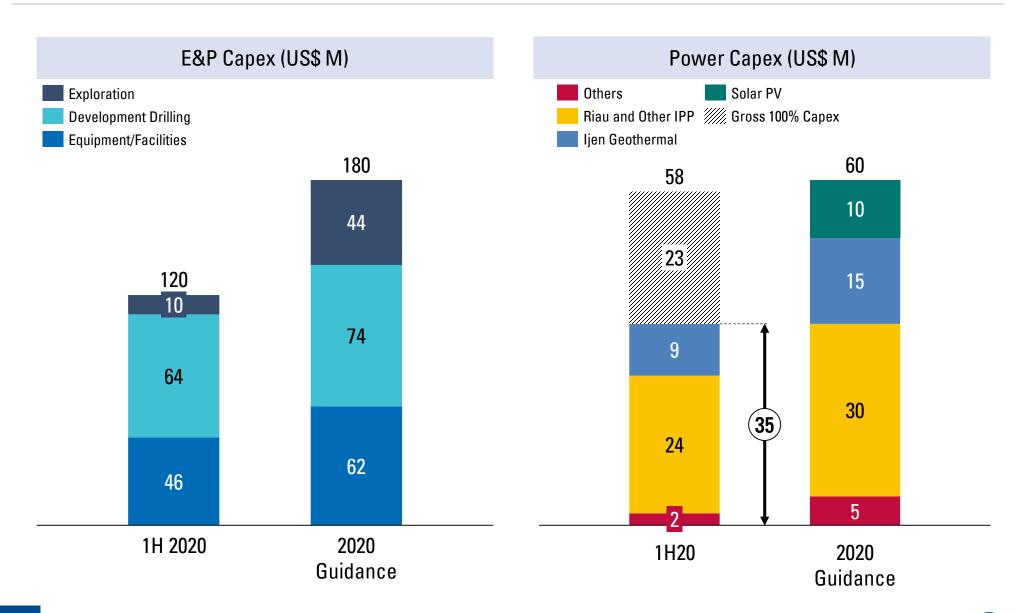
#### 1H 2020 Actual

- Production 101 mboepd within revised guidance, up 5% year-on-year following the Ophir acquisition
- Gas demand is significantly below capacity to deliver and below normal pre Covid-19 levels.

#### 2020 Guidance

- Revised 2020 guidance 100 105 mboepd
- Policy to hedge maximum 15% of production, up to 7% in put structures and remaining in collars

# **Consolidated Capex Guidance**





# **Operational Data**

# **Asset Portfolio**

#### **Indonesia Assets**

Asset	Participating Interest	Expiry	Acreage (Km²)	1H20 Production (MB0EPD)	Operator	Partner	Type of Contract
South Natuna Sea Block B	40%	2028	11,155	19.3	MedcoEnergi	Medco Daya Abadi Lestari 35%, Prime Energy 25%	PSC
Senoro-Toili	30%	2027	451	21.8	JOB Pertamina – MedcoEnergi	Pertamina 50%, Mitsubishi & Kogas 20%	PSC JOB
South Sumatra	65%	2033	4,470	9.3	MedcoEnergi	Medco Daya Makmur 35%	PSC
Rimau*	60%	2023/2043	1,103	4.8	MedcoEnergi	Bahtera Daya Makmur 35%, PDP&E Sumsel 5%	PSC
Lematang	100%	2027	409	2.6	MedcoEnergi	-	PSC
Block A, Aceh	85%	2031	1,681	4.3	MedcoEnergi	Medco Daya Energi Nusantara 15%	PSC
Madura Offshore – Peluang and Maleo	67.5%	2027	849	5.8	MedcoEnergi	Petronas 22.5%, Petrogas Pantai Madura 10%	PSC
Sampang	45%	2027	535	3.0	MedcoEnergi	Singapore Petroleum Sampang 40%, Cue Sampang Pty 15%	PSC
Bangkanai – Kerendan	70%	2033	1,385	2.9	MedcoEnergi	Saka Energi 30%	PSC
Tarakan*	100%	2022/2042	180	1.4	MedcoEnergi	-	PSC
Simenggaris	62.5%	2028	547	0.0	JOB Pertamina - MedcoEnergi	Pertamina 37.5%	PSC JOB
Madura Offshore – Meliwis	77.5%	2027	849	-	MedcoEnergi	Petronas 22.5%	PSC
South Sokang	100%	2040	1,000	-	MedcoEnergi	-	PSC
North Sokang	100%	2040	1,124		MedcoEnergi	-	PSC
Bengara	100%	2029	922	-	MedcoEnergi	-	PSC
West Bangkanai	70%	2043	5,463	-	MedcoEnergi	Saka Energi 30%	PSC

ProductionDevelopmentExploration



<sup>\*</sup>Rimau & Tarakan PSC contract extended for 20 years, will be converted from Cost Recovery to Gross Split after 2023 for Rimau and 2022 for Tarakan.

# **Asset Portfolio**

#### **International Assets**

Country	Asset	Participating Interest	Expiry	Acreage (Km²)	1H20 Production (MB0EPD)	Operator	Partner	Type of Contract
Vietnam	Chim Sao/Dua, 12W	31.9%	2030	1,395	5.5	Premier Oil	Premier 53.1%, PVEP 15%	PSC
Thailand	Bualuang	100%	2025	377	10.2	MedcoEnergi	-	Concession
	Sinphuhorm	9.5%	2031	230	1.5	PTTEP	PTTEP 55%, APICO 35%, ExxonMobil 0.5%	Concession
Oman	Karim Small Fields	58.5%	2040	781	7.8	MedcoEnergi	Oman Oil Company 25%, Kuwait Energy 7.5%, Vision Oil&Gas 5%, PetroVest 4%	Service Contract
Yemen	Block 9 Malik	25%	2030	4,728	1.2	Calvalley Petroleoum Ltd.	Calvalley Petroleoum Ltd 50%, Hood Oil Ltd 25%	PSA
Tanzania	Blocks 1 and 4	20%	2020	12,295	-	Shell	Shell 60%, Pavilion Energy 20%	PSC
Libya	Area 47	25%	2045	6,182	-	Nafusah Oil Operation B.V. (owned by National Oil Corporation 51%, MedcoEnergi 24.5% and Libya Investment Authority 24.5%)	National Oil Corporation 50%, Libya Investment Authority 25%	EPSA IV
	Area 47	50%	2020	6,182	-	MedcoEnergi	Libya Investment Authority 50%	EPSA IV
Oman	Block 56	50%	2039	5,808	-	MedcoEnergi	Intaj LLC 25%, Biyaq LLC 25%	PSC
Mexico	Block 10	20%	2023	1,999	-	Repsol	Repsol 40%, Petronas 40%	PSC
	Block 12	20%	2023	3,099	-	Petronas	Petronas 60%, PTTEP 20%	PSC
Malaysia	Block PM322	85%	2020	20,000	-	MedcoEnergi	Petronas Carigali 15%	PSC

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# Reserves and Resources (as of Jun 2020)

	PROVED RESERVES			PROVED&PROBABLE RESERVES			CONTINGENT RESOURCES		
	Oil	Gas	Total	Oil	Gas	Total	Oil	Gas	Total
	mbbls	mmscf	mboe	mbbls	mmscf	mboe	mbbls	mmscf	mboe
<u>Domestic</u>									
West Indonesia	17,357	281,891	68,231	30,362	328,560	89,762	29,106	321,113	86,809
East and Central Indonesia	8,762	374,905	80,304	10,892	416,750	89,901	26,707	1,279,382	268,741
Total Domestic	26,119	656,796	148,535	41,254	745,310	179,663	55,813	1,600,495	355,550
<u>International</u>									
International Assets	61,579	63,363	72,166	99,525	87,726	114,214	47,798	3,148,667	593,079
Total International	61,579	63,363	72,166	99,525	87,726	114,214	47,798	3,148,667	593,079
Grand Total	87,699	720,159	220,701	140,779	833,036	293,877	103,611	4,749,162	948,629
Domestic Proved Developed Reserves	23,499	552,618	126,970						
International Proved Developed Reserves	59,579	51,863	68,249						
Total Proved Developed Reserves	83,078	604,482	195,219						

1H-20 2P Reserves Life Index (RLI)		2019 2P Reserves Replacement Ratio (RRR	2019 2P Finding and Development Cost		
Years	8.6	5-Year Average	1.1x	5-Year Average	US\$ 12.5/boe

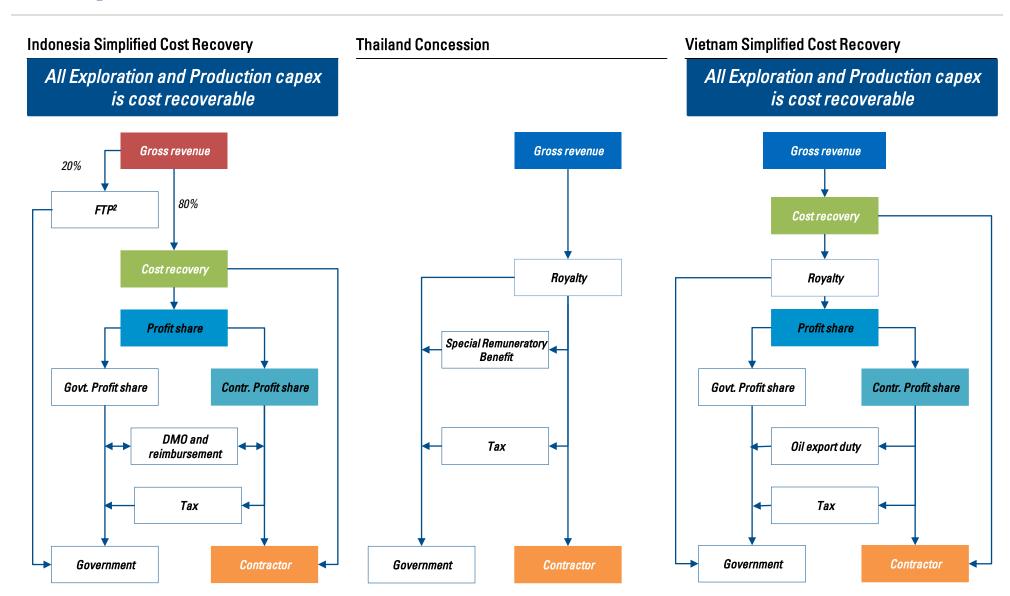
# **Active Gas Contracts (1)**

	Source	Customer	WI %	Agreement Date	Commitments	Length/Expiry
1	Block B	SembGas Singapore	40%	15-Jan-99	Total contract quantity of 2,625 TBTU	15-Jul-28
2	Block B	Petronas Malaysia	40%	28-Mar-01	Total contract quantity of 1,648 TBTU	1-Aug-22
3	Lematang	Meppogen	100%	13-Nov-18	10.8 – 11.6 BBTUD of gas with total gas contract quantity of 12,805 BBTU (Total joint supply contract quantity 55,822 BBTU)	31-Dec-27
4	Lematang & SSB	Meppogen	100%	17-Oct-14	9.7 – 12.5 BBTUD of gas with total gas contract quantity of 43,017 BBTU (Total joint supply contact quantity 55,822 BBTU)	31-Dec-27
5	Lematang & SSB	PLN South Sumatera	100%	19-Sep-17	20-25 BBTUD of gas (joint supply with SSB) with total contract quantity of 50,932.8 BBTU from Lematang PSC. (Total joint supply contract quantity 70,260 BBTU)	31-Jan-27
6	Lematang & SSB	PGN	100%	1-Jan-19	30 BBTUD of gas ramp down to 20 BBTUD (joint contract with SSB) to PGN with total contract quantity of 16,440 BBTU from Lematang PSC. (Total joint supply contract quantity 27,400 BBTU)	31-Dec-21
7	South Sumatra Block	Mitra Energi Buana	100%	8-Jun-18	Total contract quantity of 30,119 BBTU	31-Dec-27
8	South Sumatra Block	PDPDE Jakabaring	100%	4-Dec-12	3 BBTUD of gas (not extended)	31-Aug-20
9	South Sumatra Block	MEPR JATA	100%	18-Jan-16	Total contract quantity of 6,046 BBTU for own use	22-Apr-23
10	South Sumatra Block	Perusda Mura Energi	100%	9-Aug-18	1.35 BBTUD of gas with total contract quantity of 6,039 BBTU of gas	31-Dec-27
11	South Sumatra Block	PDPDE BBG	100%	4-Aug-09	0.5 BBTUD of gas with total contract quantity of 1,607 BBTU	7-Feb-23
12	South Sumatra Block	Pertamina	100%	21-Dec-18	0.2 MMSCFD gas with total contract quantity of 123.4 MMSCF (in progress of extension)	8-Sep-20
13	South Sumatra Block	Pertamina	100%	30-Jan-18	0.25 MMSCFD with total contract quantity of 855.25 MMSCF	20-Jul-27
14	Simenggaris	PLN	62.5%	17-0ct-14	0.5 MMSCFD with total contract quantity of 805 MMSCF (in progress of extension)	30-Nov-20
15	Simenggaris	PLN	62.5%	6-Feb-18	8 BBTUD of gas with total contract quantity of 21.6 TBTU	23-Feb-28
16	Tarakan	PLN Gunung Belah	100%	16-Jan-18	Total contract quantity of 10,134 BBTU	31-Dec-21
17	Tarakan	PGN	100%	30-Oct-18	0.20 BBTUD of gas for household in Tarakan (in progress of extension)	8-Sep-20

# **Active Gas Contracts (2)**

	Source	Customer	WI%	Agreement Date	Commitments	Length/Expiry
18	Senoro-Toili	DS-LNG	30%	13-Dec-10	277.8 BBTUD (equivalent to 250 MMSCFD) of gas	3-Dec-27
19	Senoro-Toili	PAU	30%	11-Jan-18	Total contract quantity of 248,200 MMSCF	3-Dec-27
20	Senoro-Toili	PLN	30%	6-Feb-18	5 BBTUD of gas with total contract quantity of 15.63 TBTU	3-Dec-27
20	Block A	Pertamina	85%	25-Jan-15	58 BBTUD of gas with total contract quantity of 198 TBTU	27-Aug-28
21	Bangkanai	PLN	70%	28-Jun-11	20.32 BBTUD of gas with Total Contract Quantity of 130TBTU	30-Dec-33
22	Sampang – Oyong	PT Indonesia Power	45%	19-Jul-03	To supply gas pursuant to Minister of Energy and Mineral Decree No.1790K/2018 (gas allocation for electricity) up to 31 December 2020 (in progress extension)	31-Dec-20
23	Sampang – Wortel	PT Indonesia Power	45%	26-Nov-10	23-17 BBTUD of gas up to maximum contract quantity of 177 TBTU or 31 December 2020, whichever occurs earlier. (in progress extension)	31-Dec-20
74	Madura Offshore – Maleo	PGN	67.5%	31-May-05	15-20 BBTUD of gas up to maximum contract quantity of 17.9TBTU or 31 August 2023, whichever occurs earlier	31-Aug-23
	Madura Offshore – Peluang		67.5%	15-May-15	25 BBTUD of gas up to maximum contract quantity of 58TBTU or 31 December 2020, whichever occurs earlier (in progress extension)	31-Dec-20
26	Madura Offshore – Meliwis	PGN	77.5%	19-Feb-19	To supply 22.8 TBTU or 31 August 2023, whichever occurs earlier	31-Aug-23

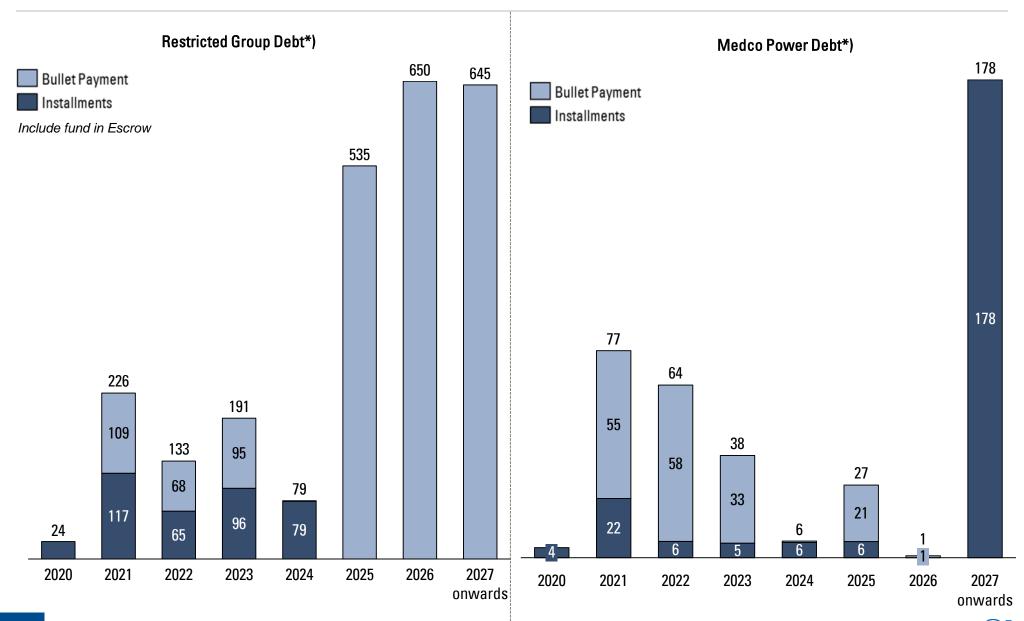
# **Simplified Funds Flow Structure**





# **Debt Info**

## **Debt Maturity Profile: Bullet vs Installment as at Jun 2020**

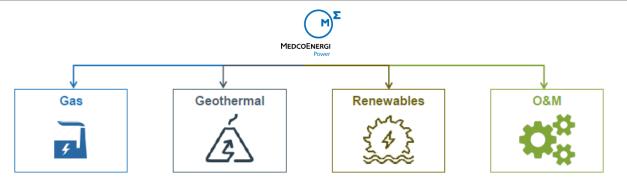




# Medco Power Indonesia

## **Medco Power Indonesia: Business Overview**

#### Focusing on clean and renewable power business



# 638 MW Gross Operating Asset 2,150 MW Gross O&M business

#### **BUSINESS STRATEGY**

- Clean energy, primarily gas and geothermal assets
- Focus on Western Indonesia (access to gas and geothermal resource), also selectively looking for opportunities in Central and Eastern Indonesia
- Focus on medium sized power plants (100 500MW capacity) and selectively larger power plants
- Expand the 0&M services business
- Extract greater synergies within MEI Group

#### **BUSINESS ENVIRONMENT**

- Contracts are Long Term (20-30 years), Take-or-Pay sales to PLN. PLN is the single buyer of electricity from various IPPs. PLN also develops and operates its own power plants
- Indonesia commitments to International targets to grow clean energy electricity capacity
- Capitalize on regulations to encourage turn-key power generation from gas producers
- Regional costs of generation as a benchmark for renewable energy prices

# **Asset Portfolio: Large Footprint in Key Markets**

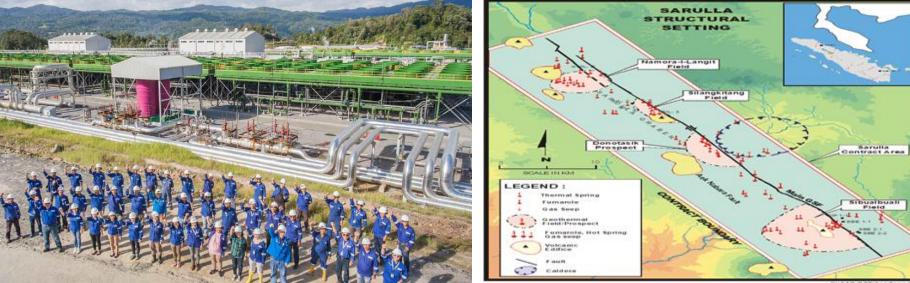


# **Sarulla: Geothermal Power Operation**

The largest single-contract geothermal power operation in the world



- Phase 1: 110MW, COD in March 2017, Phase 2 and 3 in October 2017 and May 2018. Total contracted capacity of 330MW
- 30 years Energy Sales Contract with PLN with Take or Pay 90% capacity factor. MPI provides plant 0&M
- Investment cost of US\$1.7 billion, project financing with JBIC, ADB, and 6 commercial banks



# **Riau IPP Project**

#### Construction started in November 2018, COD expected by 2021



- Located in Pekanbaru, Riau, Central Sumatera
- Combined Cycle Gas Power Plant with a total capacity of 275MW (COD in 2021)
- Project Finance by a consortium of international banks and achieved Financial Close in November 2019
- 20 year PPA with PLN
- Investment cost ~US\$290 million



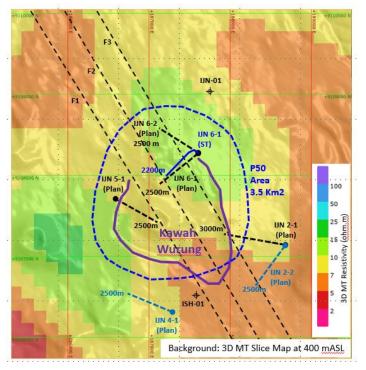
# **Ijen: Geothermal Power Project**

#### First drilling in progress, COD expected by 2021



- Located in Ijen, Blawan, East Java
- Geothermal Power Plan with a capacity of 110MW, target COD by 2022
- Electricity Sales and Purchase Agreement (PJBTL) with PT PLN (Persero) for a period of 30 years.
- Progressing with first drilling of total four wells program



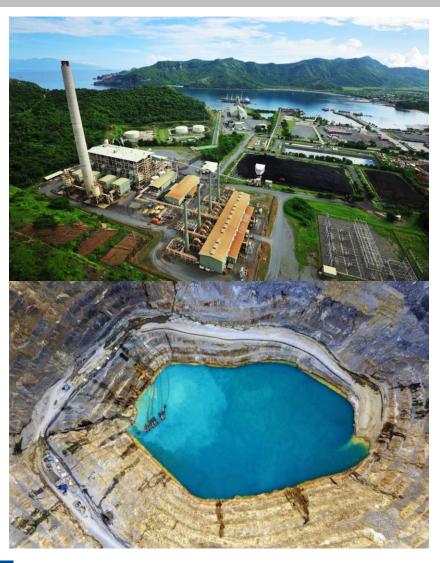




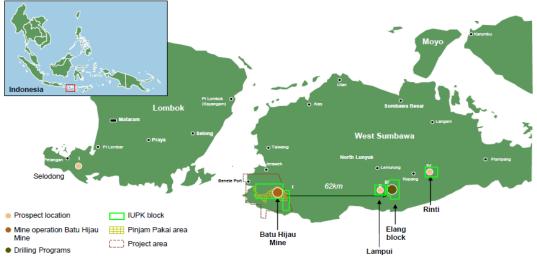
# Amman Mineral Nusa Tenggara

# **Amman Mineral Nusa Tenggara: Phased Mining Developments**

#### World-class Copper and Gold Mining operations with long-term upside



- Indonesia's second largest copper concentrate producer with over 20 years of successful mining operation
- Batu Hijau copper and gold mine mine is located on the island of Sumbawa, West Nusa Tenggara
- Full development of Phase 7 began in 2018
- Developing on-site copper smelter
- Long established relationship with blue chip customers including PT Smelting (Indonesia), LS-Nikko (South Korea), Mitsubishi Materials (Japan), PASAR (Philippines) and Trafigura Beheer (the Netherlands)
- Elang block is located 62km east of Batu Hijau





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