

MHPP Sumber Jaya

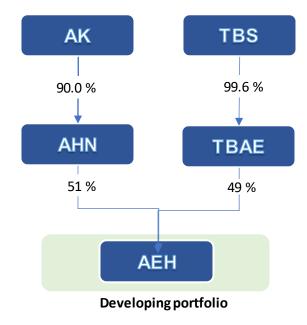
Information Memorandum December 2020



Overview PT Adimitra Energi Hidro

The Project is develop under SPC known as PT Adimitra Energi Hidro ("AEH"), as part of PT Adimitra Hidro Nusantara ("AHN") and PT Toba Bara Energi ("TBAE") portfolio. PT AEH planned to build MHPP Sumber Jaya in Lampung Province in objective of accelerate improvements to the electrification ratio in the area. Project Sumber Jaya is a small-scale hydro power plant with planned capacity of 2x3 MW, will utilizing the Way Besay River through the run of river (ror) system.

Ownership Structure of AEH



Entity	
AK	PT Adimitra Kharisma
AHN	PT Adimitra Hidro Nusantara
TBS	PT TBS Energi Utama Tbk
TBAE	PT Toba Bara Energi
AEH	PT Adimitra Energi Hidro



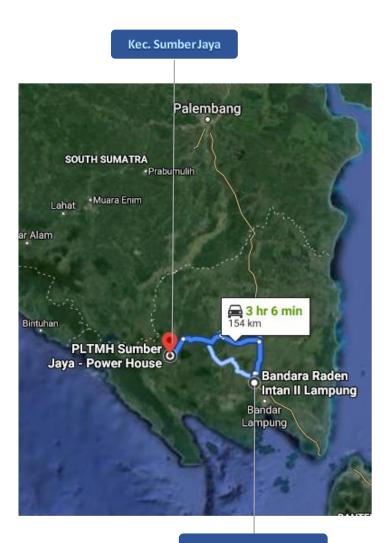
Project Location

Location Overview

Project Name	PLTM Sumber Jaya
Developer	PT Adimitra Energi Hidro
River	Way Besay
Village	Sindang Pagar & Way Petai
District	Sumber Jaya
Regency	Lampung Barat
Province	Lampung

Accessibillity

Route	Distance	Travel Time	Road Condition, Vehicle Type
Bandar Lampung – Sumber Jaya Dist. (via Bukit Kemuning)	154 km	3.5 hours	Asphalt; 4 wheels
Sumber Jaya Dist. — Way Petai Vil.	2 km	15 mins	Asphalt; 4 wheels
Way Petai Vil. – Weir/Powerhouse	1.7 km	45 mins	Footpath, soil



Bandara Raden Intan II



Project Location – Site Documentation





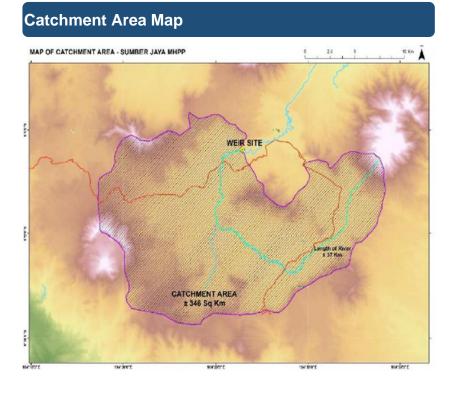
Project Location – Site Documentation



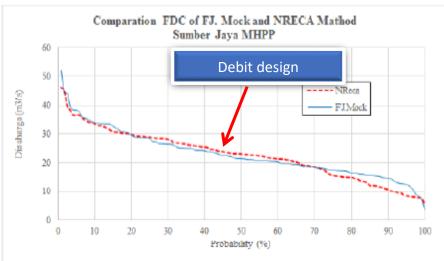


Technical Specification - Hydrology

- MHPP Sumber Jaya utilizes water from Way Besay River which has catchment area around 346 kmsq at the proposed weir.
- The catchment area was reported is in good condition consisted of most protected forest and farm garden of perennials.
- Rainfall data was collected from nearest stations with availability data which is Way Tenong Station and Bukit Kemuning from 2009-2018. These data was used to estimate the river discharge. Average annual rainfall is in between 3,758-3,950 mm/year.
- Rainfall data from all stations will be utilized in the Low Flow Analysis namely FJ Mock and NRECA Method. Using the climate data from BMKG Kotabumi station, the regional mean rainfall is obtained by Thiessen method. It was derived from the analysis of 10 years discharge record data.
- The daily inflow at the weir site is at 23.01 m3/s at probability of 43.6%, FDC represented in table below.



Flow Duration Curve



Source: Study Team

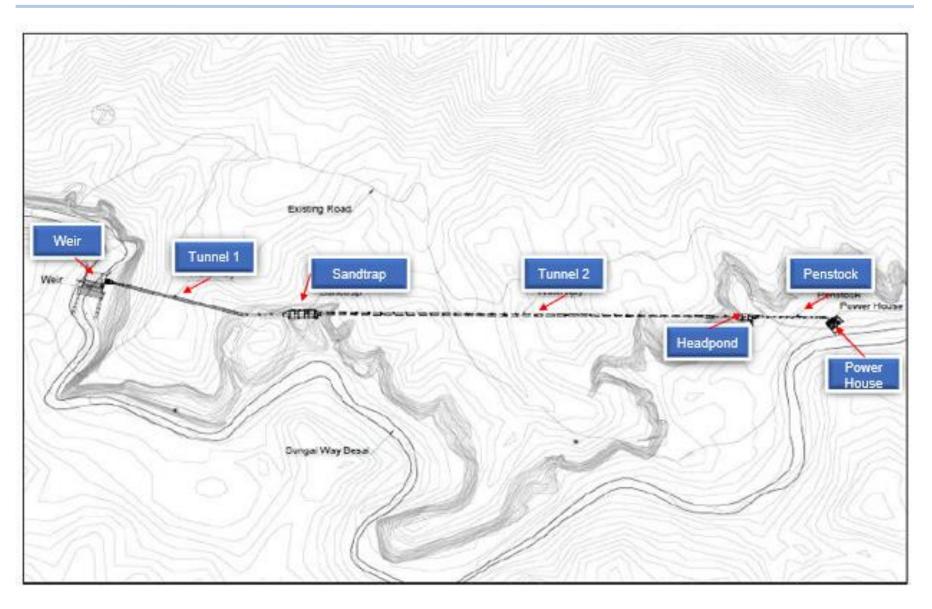


Development Status

SPV Structure	PT Adimitra Hidro Nusantara (51%), PT Toba Bara Energi (49%)
Technical Studies	 Feasibility Study by PT Esco Murti Pradana (2017) Basic Design Review by PT Indokoei International (2019) Geotechnical Study by PT CND Geoteknika (2019) Topograhic Survey with LiDAR by PT TOP Aerial (2019) UKL-UPL Report by PT Esco Murti Pradana (2019) Review Notes by USAID-ICED II (2020)
PLN	 PPA Signed Date : 22 February 2021 Financial Close Date : PPA signed date + 7 months
Grid Study	 Interconnection study by PT Esco Murti Pradana (2016) Grid study approved by PLN Lampung with KKO/KKF Connection point to Sumber Jaya substation (about 2 km from the Project)
Land Acquisition	60% of project scheme area is secured



Technical Specification – Project Layout





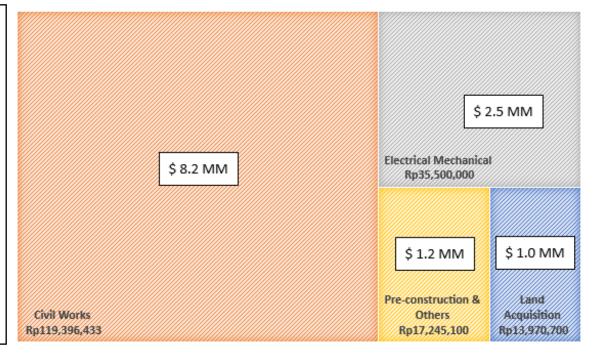
Technical Specification – Main Features Highlight

ivil Structures Features		lectrical & Mehanical Equipment	
Catchment area	346 kmsq	Turbine	Type Francis Horizontal
Design debit	23.64 m3/s	No of unit x Rating	2 x 3.0 MW
Net head	29 m	Rated turbine output	3.0 MW
Dimension of weir	4 m x 40 m	Rate speed	429 rpm
Intake width	1.5 x 9 m	Efficiency at 100% load	93%
Waterway type	Tunnel	Speed rise	55%
Waterway length	1,050 m (4.2 m x 4 m)	Pressure rise	35%
Tunnel dimension		Runaway speed	1,520 rpm
	4.2 m x 4 m	Governor	Type electro hydraulic
Penstock type	Exposed, steel pipe		
Dimension of penstock	2 x 2.2 m	Generator	Type horizontal synchronus
Dimension of powerhouse	10 x 22 m	No of unit x rated output	2 x 3.0 MW
Transmission line 20 KV	2 km	Rate speed	429 rpm
		Efficiency at 100% load	96%
		Rated voltage	6.3 kV
		Line voltage	20 kV
		Power factor	0.85
		Generator transformer	4 MVA, 6.3/20 kV, 3 Phase 50 Hz



Project Cost & Key Financial Indicator

- The total Project cost for Sumber Jaya is expected at Rp 186,112 mil (~ US\$ 12.84 million)
- With the energy estimation of 39.6 GWh per year (with assumption of losses 3%) and PPA tariff level at Rp 878.90 /kWh as agreed by PLN, the annual revenues are estimated to be Rp 33.8 billion for each year. Whereas the COGS and cash opex are expected to be Rp 5.2 billion per year.
- From the total project cost, 70% will be financed by Senior Lender (Bank) and 30% will be part of equity.
- Civil contractor and mechanical electrical contractor tender is on going and are already in advance stage with some shortlisted candidates.



6.0 MW 39.9 GWh/year (75% CF)

USD 12.8 m Total Project Cost 11.0%** Project IRR, current price of cUSD 6.60/Rp 878.90 17.4%* Project IRR, sensitivity on Perpres price of cUSD 10

Note :

* Perpres tariff from latest draft for capacity 5-20 MW is staging price, with cUSD 9.09 x F for year 1-10, and cUSD 5.68 x F for year 11-30. F is location factor, in which Lampung/Sumatera is 1.10.

** potential IRR upside of 50 bps by applying tax holiday scheme



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