

Endikat HPP – Sustainable Hydropower

Endikat HPP is a 65.6 MW peaker hydropower cascade project located in South Sumatra. It was designed to meet PLN local power peak demand and replace expensive and polluting energy sources.

Developed following the highest existing technical and environmental standards, Endikat will benefit the whole region, while inducing no population resettlement.

Endikat is a sustainable, flexible and competitive tailor-made solution to PLN local power demand.



Project Overview

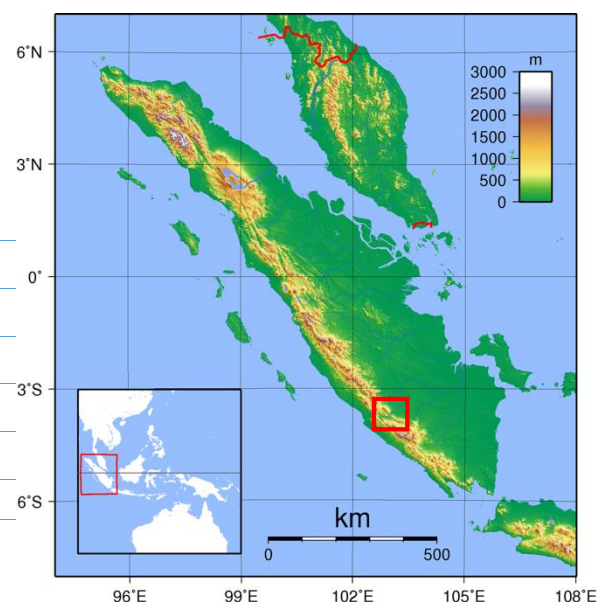
ENDIKAT HYDROELECTRIC POWER PROJECT
South Sumatra, Indonesia



Sector

Hydropower, Peaker

Capacity	65.6 MW (33MW + 32.5MW)
Output	270.5 GWh/y (CF @ 47.1%)
Peak length	6 hours
Peak dependability	95%
Status	In Development
Timeline	Expected financial close: Q3 2022 Expected COD: Q3 2025
Capex	US\$ 181M





Endikat HPP in the Sumatra system



Sumatera System operation cost

Financial savings of nearly **IDR 3 trillion** for PLN throughout the project's lifetime.



System losses reduction

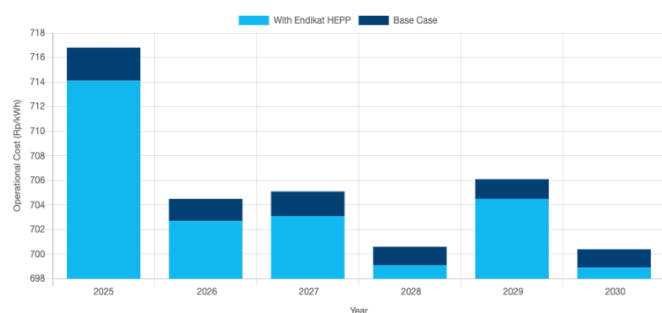
Given its location at the end of the South Sumatera grid, Endikat HEPP will help **reduce system losses**, thus increasing grid stability.



Taxes

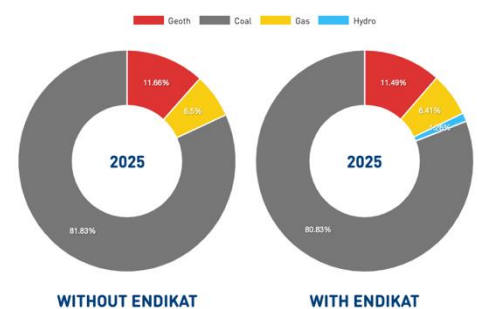
Endikat HEPP is expected to generate up to **\$200M in income** at the local and central levels, in the form of corporate and water usage taxes.

SUMATERA SYSTEM OPERATION COST



Analytics is based on a study by HIRE (PT Hexa Integra Electrical)

SOUTH SUMATERA SYSTEM ENERGY MIX



Analytics is based on a study by HIRE (PT Hexa Integra Electrical)

The Endikat HEPP will increase by 20% the share of renewables in the South Sumatra energy Mix.

Sponsors and partners



tirtagen

PT. Energi Hijau Kencana ("Tirtagen") is a joint venture between Puri Group and Elterra Group. Both companies have a long track record in the Indonesian power industry. The shareholders of Tirtagen are diversifying their business portfolio toward renewable energy sources. This includes the Endikat project and the development of mini hydro power plants, as well as a portfolio of wind and solar projects.

Infunde development Pte Ltd is a specialist of Infrastructure project development. Based in Singapore, Infunde gathers over 150 years of experience and several thousands of MW successfully developed in South-East Asia. Infunde development is Infraco Asia's exclusive developer and is committed to follow the highest international standards.

Infunde
DEVELOPMENT

INFRACO
ASIA

InfraCo Asia Development Pte Ltd (InfraCo Asia) is a commercially managed infrastructure development and investment company of the Private Infrastructure Development Group (PIDG) headquartered in Singapore. InfraCo Asia provides leadership and capital to develop early-stage infrastructure projects into viable investment opportunities. Infraco Asia is actively engaged in the renewables and counts several successful involvements in small and medium hydropower projects in Vietnam, Pakistan and India.

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SYNTEK
Energy & Control

pwc

ALLEN & OVERY

MARSH

QUADRAN
Your trusted strategic partner

Combined Development Impact



Over 671,000 people will have improved access to infrastructure services



More than 2000 short-term jobs will be created during the construction, 120 long-term jobs will be created during plant operation



0 resettled households
0 resettled population



More than 126,516 tons of CO₂ will be saved every year



Environment and Community

The Endikat Hydroelectric Power Project will be completed to target the immediate requirements of the South Sumatran grid in order to provide clean, cost-efficient and reliable power through a cascade hydroelectric power plant. Infunde Development will ensure IFC Performance Standards are followed, and that social and environmental risks are well identified, avoided when possible, and otherwise minimized and mitigated.

Benefits

For Indonesia

- Enabling carbon emission reductions in line with the Paris Agreement
- Contributing to the government of Indonesia's target of 23% renewable energy mix by 2025, and net zero emissions by 2050
- Creating collaboration opportunities between local and international stakeholders
- Generating over \$200M in taxes revenue over the project lifecycle

For South Sumatera Province

- Increase in job opportunities for skilled labour
- Stimulating economic activity in the region, thus improving surrounding community's livelihoods and quality of life
- Enabling technology and knowledge transfer, as Endikat HEPP is the first sizeable hydropower project in South Sumatera
- Expanding options for reliable and clean energy sources, and reducing reliance on fossil fuel

For PLN

- Diversifying PLN's energy sources and assisting in transitioning towards affordable and reliable renewable energy sources
- Potentially substituting gas power plants at a reduced cost to PLN
- Improving local subsystem electricity quality
- Reduce system losses
- Minimizing the gap in electricity supply-and-demand through peaking power plants
- Reducing the cost of energy