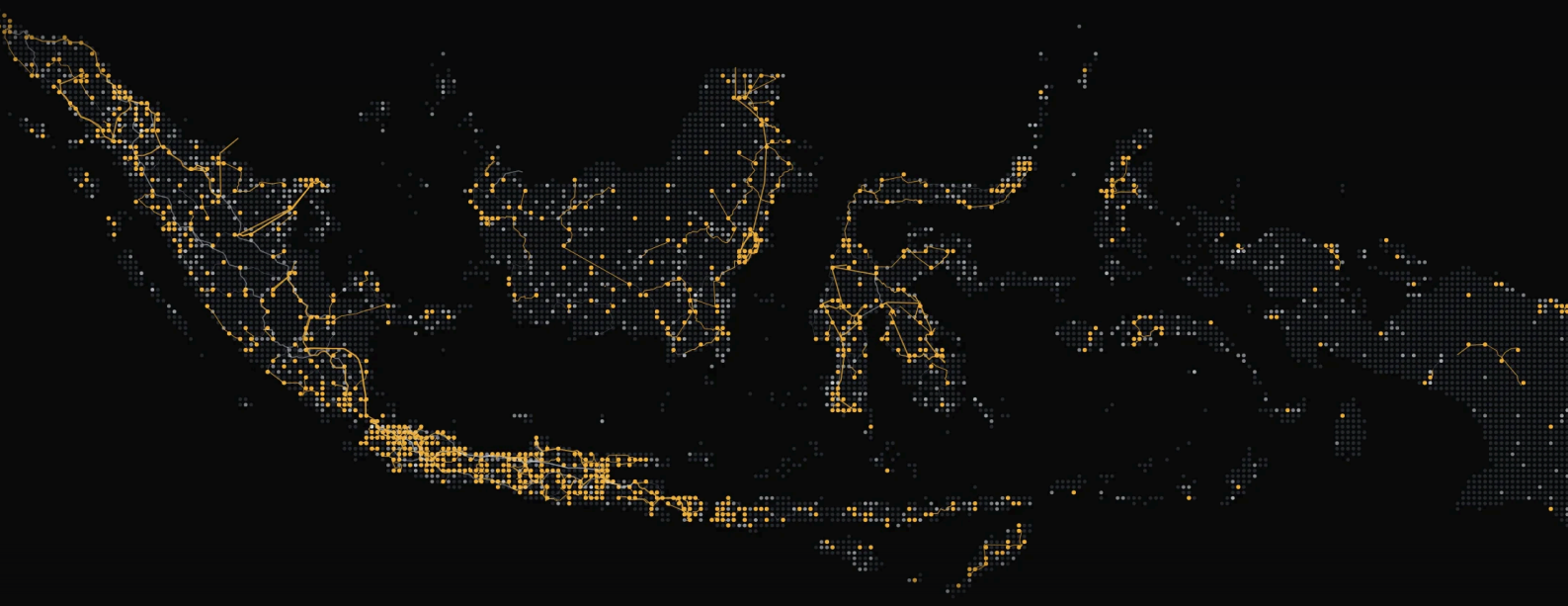
Indonesia's power grid, on one map.

An open map and open data of Indonesia's power system, backed by independent technical advisory.



Indonesia Power Map

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About us

Indonesia Power Map gives a complete picture of Indonesia's power system, from the assets in operation today to the projects planned ahead, on one map that is open to everyone.

We believe good energy decisions start with data everyone can check. That is why every point on our map can be traced back to its source.

Initiated by Sandro Agassi Sitompul, Ph.D., and developed together with a team of developers.

Open

The map and all of its data are free to access and download.

As published

Plans appear as published, with no added interpretation.

Traceable

Every asset and project points back to its source.

3,199 Generation entries mapped	**108.0 GW** Installed capacity, incl. captive	**120,161** MVA Substation transformer capacity
77,146 ckm Transmission lines, 70–500 kV	**1,059** Generation entries in the plan	**48,340** ckm New lines, base plan

One map, the whole grid.

Power plants, substations and transmission lines appear alongside the projects planned to 2034, across the whole archipelago.



Today and tomorrow

Assets in operation and planned projects in a single view.

Two scenarios

Schedules for the base case and the accelerated renewables case.

Open data

Six national tables in CSV and GeoJSON.

Open data

Six national tables in CSV and GeoJSON, free to download and use.

Power plants 3,199
Type, capacity, operator and location.

Substations 1,158
Name, voltage and location.

Transmission 1,947
70–500 kV lines and their routes.

Generation plan 1,059
Capacity, status and commissioning year.

Planned substation works 1,740
New substations, transformer additions and uprates.

Planned transmission 1,258
New lines and reconductoring.

Coverage by region

Region	Plants	Substations	Lines	Planned projects
Java-Madura-Bali	770	560	1,080	2,020
Sumatra	901	298	478	740
Kalimantan	466	106	147	406
Sulawesi	371	125	167	448
Maluku	212	11	7	113
Papua	259	12	15	123
West Nusa Tenggara	76	25	26	75
East Nusa Tenggara	144	21	27	132
Indonesia	**3,199**	**1,158**	**1,947**	**4,057**

Asset locations: OpenStreetMap and Manual Mapping by IPM. Plans: national electricity planning document 2025–2034.

Advisory services

Independent technical analysis, with client data kept confidential.

Grid connection studies	Load flow, N-1 contingency, short-circuit and reinforcement needs for the connection of a power plant, large load or storage system.
Project mapping	A complete list of planned plants, substations and lines in the province or power system you choose.
Solar and storage	Hosting capacity of each substation, likely curtailment and battery needs, simulated hour by hour over a full year.
Asset data validation	Your asset register reconciled with official sources, with a note for every correction.
Training	Power system analysis in pandapower and PyPSA, using Indonesian network data.

How we work

Scope
Questions, data and assumptions agreed together.

→

Analysis
Models built and tested against the available data.

→

Results
Reports and data ready for decision-making.

Who we work with

- Local governments
- Developers and IPPs
- Financial institutions
- Civil society
- Research institutions

Indonesia Power Map

Let's talk.

Tell us about your region, your assets and your questions. We will come back with a proposed scope of work.

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