Research Intern for Green Energy Transition Indonesia (GETI) Project

July 2025

Internship Opportunity

Position : Data Mining Intern
Nature of work : Internship
Duty station : Jakarta, Indonesia (hybrid mode)

Background

The Government of Indonesia officially released the National Electricity General Plan (RUKN) for 2025-2060 through the Ministry of Energy and Mineral Resources (MEMR) Decree No. 85.K/TL.01/MEM.L/2025 on March 5, 2025. The RUKN document is a long-term roadmap for electricity sectors, outlining the principles and strategic direction that the government will implement for electricity provision for the next 35 years. This document also will serve as the foundation for more detailed plans, especially the Electricity Supply Business Plan (RUPTL) and the Regional Electricity General Plan (RUKD).

The RUPTL 2025–2034, that enacted under the MEMR Decree No. 188.K/TL.03/MEM.L/2025 on May 26, 2025, outlining a 69.5 GW capacity expansion with 76% from renewables (42.6 GW) and storage (10.3 GW), and 24% from fossil fuels (10.3 GW gas, 6.2 GW coal). It aims to support an 8% economic growth target and increase renewable energy share to 34% by 2034. The RUPTL follows up the launch of RUKN, which sets long-term electricity policy and targets. However, RUPTL's 2037 emission peak and continued coal use post-2030, among others, pose questions on how it aligns with RUKN's decarbonization goals.

Institute for Essential Services Reform (IESR) through Green Energy Transition Indonesia (GETI) project keen to scrutinize the energy transition scenario proposed in the RUKN 2025-2060 document. This review will approach how these strategies can be implemented, especially when considering detailed cost analysis and technical feasibility. This review will contain an energy model and cost analysis to assess its reliability and how this strategy will support the NZE 2060 target achievement.

To support this study, we are seeking a highly motivated intern to assist in data mining and energy system analysis. The intern will play a key role in supporting the study by gathering and organizing data across the national electricity plan and electricity supply business plan, conducting background research, and contributing to the analysis of energy transition strategy. This position offers a valuable opportunity to contribute to Indonesia's energy transition while gaining practical experience in a research or think tank environment.

About the Position

We are seeking a motivated and detail-oriented **Data Mining Intern** to support analytical and data development work related to study on the RUKN Scenario Model year 2025-2060. The selected candidate will assist in collecting and compiling data for annual electricity demand projection, generator database, electricity transmission, as well as analyzing technical power systems modelling.

The intern will be part of the GETI project team which has two workstreams: 1) Accelerating policy reform listed in CIPP for JETP, 2) Establishing green hydrogen market. Intern will mainly collaborate with workstream 1, which focuses on accelerating policy reform.

Duties and responsibilities

1) Database collection
   a) Compile a database for annual electricity demand projection from the RUPTL 2025-2034, by province and by customer group (e.g. industry, residential, etc.);
   b) Compile a database of generators in the RUPTL 2025-2034, updating the data for generators from previous RUPTL and new additions. (Data points include: generator type, location, capacity, COD, development status, and developer);
   c) Compile a database of electricity transmission in the RUPTL 2025-2034, updating the data for projects from previous RUPTL and new additions.
2) Technical Documentation and Analytical Support
   a) Analyze the coal-fired power plants capacity additions in the RUPTL 2025-2034 compared to the ongoing projects from previous RUPTL documents, to check whether or not there are new CFPPs planned in the new RUPTL;
   b) Assist the power system analyst with other data collection purposes related to power system modelling and analysis;
   c) Contribute to internal discussions through data progress updates and preliminary insights;
   d) Write an activity report, including the results and analysis of any study performed.

Qualifications

- Just recently completed a degree in Electrical Engineering, Environmental Engineering, Energy Systems, Other Engineering, Natural Science, or a related field;
- Familiarity with energy or power system data within the Indonesian context is a must;
- Proficiency using Microsoft Excel and/or proficiency in data analysis software (e.g., Python, R, and GIS or other similar softwares) is a must;
- Demonstrated academic or practical experience in analytical work related to energy;
- Strong quantitative and analytical skills, with attention to detail and accuracy;
- Understanding of power systems in Indonesia is very desirable.

Other Qualifications

- Strong data, research, organizational, and documentation skills;
- Ability to work independently and manage multiple tasks with minimal supervision;
- Proficient in English and Bahasa Indonesia, both written and oral;
- Commitment to the internship period and deliverables.

Duration

This internship will run for a period of 2 months, starting from around July 16 to September 15 2025, with the possibility of extension based on project needs and intern performance. The intern is expected to commit to a full-time arrangement, to be agreed upon during onboarding. Work will be conducted in a hybrid/remote setting with regular meetings.

Remuneration

The selected intern will receive a stipend of IDR 150,000 per day for a total of effective working days within a 2 month internship period. Payment will be paid on a monthly basis upon submission of a timesheet.

How to apply

- Download and fill out the application form from the IESR website.
- Please send the completed application form, an application letter, the latest CV/resume to erina@iesr.or.id and cc to warih@iesr.or.id and jihan@iesr.or.id.
- All documents are required to be submitted by July 13, 2025, at the latest.
- Only qualified candidates will be called for an interview.