

[IESR Vacancy] Power System Modeller

Background

Institute for Services Reform (IESR), a think tank in energy and environment, aims to transform Indonesia's energy sector to reach net-zero emissions by 2050. The Power System Modeller will be responsible for determining the model structure & methodology, compiling necessary data, conducting modelling or analysis for a power system with high-renewable integration, and supporting the analyst to write policy briefs or research reports that are relevant to the challenges of rapidly transforming Indonesia's power system to net zero. The results of the analyst works will be communicated to relevant stakeholders as part of the IESR's advocacy for the energy transition in Indonesia.

About the Position

IESR is looking for a Power System Modeller. The person in this position will be part of the IESR's analyst team and will contribute to the evidence-building and advocacy process of IESR in the power system transition. IESR is keen to do breakthrough research beyond the existing conditions to find new and innovative ways for rapid renewable energy integration. The analyst could also participate in IESR key advocacy process, including but not limited to the early retirement of coal-fired power plants, the flexible operation of the power system for integrating variable renewable energy and others.

IESR is seeking a highly motivated, experienced, and qualified candidate to join our dynamic team.

A. Responsibilities and Tasks

The responsibilities of the Power System Modeller shall include, but not be limited to, the following:

- Collect, compile, and build a database on the power system in Indonesia as a basis and support for the research reports **[20%]**
- Conduct research as prioritized by internal organization strategies for advocacy. The task includes brainstorm and strategize the key research questions in accordance with the most recent context, prepare research methodology, outline the research paper, gather primary and secondary data, write research report, or translate the key findings into other products as deem necessary, as well as communicate the results to the relevant stakeholders **[15%]**
- Conduct a power system model for the ongoing research or advocacy **[50%]**
- Contribution to other work streams related to the power sector as deemed necessary **[15%]**

B. Qualifications, competencies and experience

- Master's degree in the field of electrical power engineering or other related engineering discipline (sustainable energy, renewable energy, or other relevant engineering) from a reputable universities.
- Experience in producing analysis/report in power system, power plant, or power modelling software, such as Homer, PVsyst, Plexos, PyPSA, etc.
- Basic understanding of power systems, energy, and environmental issues. Deep knowledge of the power system situation in Indonesia is very valuable.
- Excellent written and oral knowledge of Bahasa Indonesia and English, including the ability to write a report/technical/briefing/policy paper.
- Ability to work in an intercultural environment.
- Willingness and adaptability for new and relevant knowledge in power systems.
- Excellent time-management skills.

C. Duration

Two years contract, can be extended with 3 months' probation. The expected starting date is **end-August 2025**.

D. Salary

The salary will be commensurate with the candidate's qualifications and experiences.

E. How to apply

- Candidate to download application from IESR's website.
- Send the completed application form together with an application letter and latest CV, recommendation letter to hrd@iesr.or.id before **July 31th, 2025**
- Only qualified candidate will be called for interview.