

Project: Thai-German Climate Programme: Energy (TGCP-Energy: PN 16.9082.5.002.00)

Position: Junior Advisor: Power systems

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH is an international organization working worldwide on sustainable development. As a German government-owned enterprise, GIZ operates on behalf of German Ministries, the governments of other funding country, and international clients. In Thailand, GIZ has a long track record of more than 60 years in various aspects: energy, agriculture, climate change, education, health, etc.

We are currently looking for a **Junior Advisor: Power systems** to support our activities on the provincial level for “**Thai-German Climate Programme: Energy (TGCP-Energy)**”.

Junior Advisor: Power systems (m/f)

Global efforts on climate change have created significant pressure for Thai energy sector. In 2012, it is responsible for 73% of the total greenhouse gas (GHG) emission of the country. Thailand has already committed to reduce 20-25% of its GHG emissions by 2030 as stated in its Nationally Determined Contribution (NDC). To make this happens, Thai energy sector must lead the way. Further deployment of renewable energy (RE), energy efficiency (EE), and smart energy technologies is key.

Thailand’s energy sector has started its long-term energy transition, from centralized conventional fossil fuel-based to more distributed and climate-friendly energy generation. The costs of certain RE technology are declining, making them in competitive with conventional energy sources. However, with its intermittency and weather-depend characteristics, working on RE generation alone is not sufficient. The essence of energy transition is to work holistically on the entire chain of energy system, from generation, transmission, distribution, to final consumption.

Several innovative technologies have emerged (i.e. energy storage system, smart grid, electric vehicle, etc.) which can potentially change the way the energy sector used to operate. When applied properly, they can serve as a supporting foundation for energy systems, allowing high share of RE to be integrated without negative impacts on system reliability. In parallel, increase of energy efficiency, both on generation and consumption side, is still to be done. Nowadays, new business model can potentially tap additional values and create new business opportunities on EE (i.e. demand side integration, aggregator model, etc.)

There are different perspectives on how future energy system will look like. In any case, it will be different from today’s energy system. Most probably, more RE and more digital technology can be expected in the future energy system. This increased complexity often calls for new ways of energy planning and management. More effective policy frameworks are necessary to ensure that the energy transition are done properly and match with the country context.

GIZ take parts in driving Thailand energy transition, by supporting Ministry of Energy (MoEN) to achieve a long-term transition of Thai energy system; by making it to be more climate-friendly and ensuring its alignment with Thai’s climate change target. Under Thai-German Climate Programme (TGCP), GIZ provides technical supports and consultancies to MoEN to help them plan and implement climate friendly project better.

TGCP-Energy Project

Germany and Thailand are jointly implementing the 4-years “**Thai-German Climate Programme**” (TGCP) to support Thailand to reach its greenhouse gas (GHG) reduction target according to Thai Nationally Determined Contribution (NDC). The programme covers five key sectors in Thailand, namely: (1) Climate Policy, (2) Energy, (3) Water, (4) Agriculture, and (5) Waste/wastewater. “**Thai-German Climate Programme: Energy**” (TGCP-Energy) is a project under TGCP that help Thai energy sector to reduce its GHG emission.

Involvement of community level in climate change is an important aspect. For the energy sector, the provincial energy offices (PENo) plays a prominent role to support this bottom-up approach. Currently, 76 PEnOs in Thailand have implemented several climate-friendly projects which mitigate GHG. TGCP-Energy aims at connecting provincial energy projects / plans to national energy policies / plans, and eventually to Thailand climate change plans and targets. This is to ensure alignment of plans and implementations in all level.

The TGCP-Energy provides various technical supports to the Ministry of Energy (MoEN), i.e. capacity building, technical consultancies, enhancement of planning and project development process, development of modern modeling tool for energy planning etc. The project is jointly implemented by the Policy and Strategy Management Office (PSO) under the Permanent Secretary Office, Ministry of Energy and GIZ. TGCP-Energy is a 4-years project (from January 2018 to December 2021).

The TGCP-Energy works are as the following:

- design and develop **digital tools** to support energy planning on the provincial level (i.e. provincial energy system modeling tools, integrated provincial energy planning platform)
- plan and organize **capacity building activities** to the MoEN & relevant organizations in the energy sector, both on soft skills (i.e. resulted-based management) and technical background knowledge (i.e. renewable energy & emerging new technologies)
- support PEnOs in conducting **provincial energy planning** in more climate-friendly approach
- support PenOs in **implementing provincial climate-friendly projects**
- develop **policy recommendations** on possible implementing strategies in GHG mitigation for Thai energy sector
- support Thai energy sector in **tracking, assessing, and tracking** GHG emission and mitigation potential

Responsibility

The **Junior Advisor: Power Systems** will implement assigned tasks which are part of the TGCP-Energy work plan. The focus will be on provincial activities and capacity building / consultation as the following:

- Support the project manager in planning activities on the provincial level (i.e. define scope, scheduling, budgeting etc.)
- Coordinate with provincial energy officers and/or other local stakeholders
- Conduct research and information/data collection which are necessary for planning and development of provincial climate-friendly energy projects
- Perform technical analysis and prepare documents for provincial climate-friendly energy project (e.g. pre-feasibility study, technological review, spreadsheet calculation, etc.)
- Report progress of provincial climate-friendly energy projects and evaluate their results
- Support the project manager in contracting external consultants / service providers to support the provincial activities (i.e. preparing terms of references, coordinating with GIZ procurement officers etc.)
- Steer the consultants as per contractual framework
- Review the consultants’ deliverables and evaluate their performance
- Develop analysis tools which can helps in up scaling the provincial climate-friendly energy project (e.g. spreadsheet for system sizing, financial analysis, guidebooks, manuals etc.)
- Support the project manager in organizing events (e.g. trainings, study trips, consultation workshops, coordination meetings, etc.)

- Provide inputs for training/workshop design
- Develop training/workshop materials
- Moderate the group discussion in the training/workshop
- Deliver presentation at the training/workshop upon requested
- Support the project manager in developing recommendations for the Ministry of Energy, power utilities, energy regulators, and private sector on climate-friendly energy deployment
- Support the project manager in planning the TGCP-Energy during 2020 – 2021 (i.e. strategy & workplan development, tracking and monitoring the progress, change management etc.)
- Provide inputs for public relation materials and activities e.g. press releases, newsletter, publication, etc.
- Supports other activities as needed

The position will be based in Bangkok. Frequent travel upcountry (approx. 1-2 times per month) is to be expected at certain project duration.

Your qualifications

We are looking for a candidate who possesses the following qualification:

- Master's Degree in engineering (i.e. energy, electrical, mechanical, industrial, environment), science, political science, or economics (other degree with relevant practical experience eligible for application)
- Professional work experience in the energy sector of at least 1 year
- Excellent communication skills in English and Thai (i.e. deliver presentation to wide audience, structured report writing, etc.)
- Proven knowledge and understanding of Thai energy sector
- Proven knowledge in RE, EE, and preferably smart energy technologies
- Good knowledge in power system
- Knowledge on solar PV rooftop, smart grid, energy storage system, and electric vehicle is an asset
- Ability to work independently on assigned tasks while maintaining good coordination with other team members
- Be able to travel frequently to upcountry in Thailand
- Eager to learn and willing to adapt
- Ability to engage and interact with various stakeholders (i.e. government officer, power utilities, private sectors, etc.)
- Diplomatic, solution-oriented mindset
- Proactive and able to work under pressure

This will be a fixed-term contract, starting as soon as possible and running until December 2021.

Contact

Please submit your application and CV to chattayada.pattaragulwanit@giz.de. The deadline for applications is 28 February 2020. Only shortlisted candidates will be contacted.

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