



Renewable Energy Skills Development (RES D)



Students at State Polytechnic Jakarta, Indonesia. (Photo: RESD)

Country/Region
Indonesia

Executing Agency
GFA Consulting Group, AMC, PCS, Sfivet

Government Partner
Ministry of Energy and Mineral Resources

Project Duration
2020-2025

Budget
CHF 6,500,000

Rationale

One of Indonesia's main development priorities outlined in the National Mid-term Development Plan RPJMN 2020-2024 is to achieve 100% electrification ratio by 2024 (from a recorded 98.9% in 2019). Renewable energy technology plays an important role in reaching the remainder across the archipelago, especially those in remote areas. The Government of Indonesia have also set an ambitious target of achieving 23% renewable energy mix by 2025, and 31% by 2050 (from 12% in 2019). In order to support the achievement of these ambitious targets, Indonesia needs to strengthen and enrich the labour market. Therefore, through the Renewable Energy Skills Development Project (RES D), the Government of Switzerland, through SECO (Swiss Secretariat for Economic Affairs) agreed to provide CHF 6.5 million of grant funding to help improve the availability of qualified labour force to enable competent design, planning, installation, operation, and maintenance of renewable energy power plants in Indonesia.

Objectives and Activities

RES D aims assist the Government of Indonesia to better prepare the labour market in Indonesia in the field of renewable energy through strengthening its vocational education ecosystem in said sector. To this end, the Project operates on the following 3 components:

- **Component 1 – Formal education:** RESD works with selected polytechnics across Indonesia to develop a formal, multidisciplinary renewable specialisation programme at the D4 level. This approach is designed to cater to D3 graduates of mechanical, electrical, and civil engineering who want to further specialise in renewable energy technologies.
- **Component 2 – Non-formal education:** RESD also works with various training providers (PPSDM KEBTKE and a number of BLKs) in developing modular non-formal training curricula to enable skills and knowledge upskilling relevant to the renewable energy labour market. It is targeted that these modular courses to offer training at the qualification level IQF 3-4. This approach is taken in parallel to Component 1 to be able to cater to existing labour force who want to upskill themselves onto the renewable energy sector.
- **Component 3 – Information Exchange and Communications:** Through this component, it is expected that exchange and understanding of the renewable energy sector and the relevant education sector. Support will be provided in (a) enhancing digital platforms of renewable energy information, (b) organizing/contributing to renewable energy conferences/events, and (c) linking national and international training institutions through twinning between Swiss and Indonesian polytechnics.

Governance Structure

RESD is led by a Steering Committee (SC), chaired by the Human Resource Development Agency (BPSDM) of the Ministry of Energy and Mineral Resources (MoEMR) of the Republic of Indonesia. The SC is co-chaired by SECO, and consists of the following members:

- Directorate General of New and Renewable Energy & Energy Conservation, MoEMR
- Directorate General of Electricity, MoEMR
- Directorate General of Vocational Education, Ministry of Education and Culture
- Indonesia Professional Certification Authority (BNSP)
- Ministry of National Development Planning (BAPPENAS)

Results to Date

The results to date are as follow:

- Component 1:
 - Assessment on polytechnics selection have been carried out.
 - DACUM and curricula development workshops have been conducted together with private sector stakeholders. Preliminary recommendation for laboratory equipment upgrades has been developed.
- Component 2:
 - Assessment on training providers' selection have been carried out.
- Component 3:
 - Results currently not available.