



# GIZ Energy Programme Indonesia/ASEAN

## Strategic Theme: Just Energy Transition

### Purpose & Relevance

Despite being blessed with abundant renewable energy (RE) resources (3,716 GW), Indonesia's share of RE in the total primary energy supply was only 14.7% in 2024. At the same time, the 2025 Indonesian Second Nationally Determined Contributions (NDCs) suggest the energy sector will dominate the greenhouse gas (GHG) emissions in 2030 (73-83%), calling for urgent action to speed up RE expansion.

While the majority (95%) of the Indonesian public considers RE expansion as a top priority, concerns over energy affordability and the socio-economic and ecological impacts associated with large-scale RE projects, fossil fuel phase-down, as well as energy-transition-related industrialization and infrastructure (e.g., power transmission) development remains the dominant social factors shaping the pace of the transition.

A successful energy transition depends on broad social support. Public acceptance grows when the transition is fair—when affected groups, including local communities, governments, households, workers, and businesses, can manage the risks and seize the opportunities that allow them to thrive through the change.

### Government Targets

Aligned with the global agenda to triple renewable energy and limit unabated coal use, the Indonesian government has set ambitious energy-transition targets—doubling the share of renewable energy in the primary energy mix and increasing electricity consumption per capita by 2040—demonstrating its commitment to accelerate renewable energy deployment and electrification while curbing coal development. These targets also advance Indonesia's industrialization agenda by expanding the processing of transition-critical minerals, including tin, bauxite, nickel, and copper.

Although core elements of a just transition—such as skills development, social protection, active labour-market policies, green job promotion, participatory policymaking, and environmental safeguards—are included in Indonesia's medium- and long-term development plans, the country still lacks a national framework to guide government action in helping stakeholders mitigate risks and capture opportunities to maximize the benefits of the transition.

Through JETP-related processes and beyond, GIZ supports the Indonesian government—at both national and sub-national levels—in institutionalizing a just energy transition and upskilling workers leaving coal-related jobs to seize new opportunities in the green economy while ensuring that social protection is provided where needed.

### Our Strategic Partners

The primary political partners are the national ministries responsible for national development planning (Bappenas) and energy and mineral resources (Ministry of Energy and Mineral Resources, MEMR), while collaborating with important stakeholders within the fossil-dependent regions at the sub-national levels (currently East Kalimantan and South Sumatra), mineral regions (currently Central Halmahera District of North Maluku), and two RE-intensive regions to be decided in mid-2026. In addition, GIZ also works with actors who play strategic roles in RE development, are affected by a coal phase-down, RE phase-in, mineral production, or with influence on national energy policy making and local economic transformation in impacted regions and sectors. These include companies (including RE developers), business associations, labour unions, social and environmental NGOs, and academia.



### Achievements

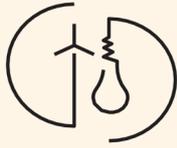
- More than **1,300 persons** have been trained in RE skills such as micro-hydro, wind power, project management and business development of solar and geothermal power plants, improving livelihoods in rural communities, as well as the performance of companies and their employees.
- The **long- and medium-term development plans (RPJPD and RPJMD) of South Sumatra and East Kalimantan** have incorporated essential JET elements, including energy transition, active labor-market policies, and social protection.
- Regional Consultation Forums for accelerating economic transformation—the **first of their kind in Indonesia**—have been operating in the two coal regions (East Kalimantan and South Sumatra), engaging more than 150 participants in defining pathways toward a more diversified and sustainable economy.



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On behalf of:  
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## Our Approach

- **Policy advisory services** to Bappenas, MEMR and MoM in institutionalising a just energy transition and promoting future-oriented and inclusive workforce development and social protection policies.
- **Raise awareness** on the importance of green skills and employment opportunities in the green economy and strengthen social and environmental management.
- Support coal-dependent regions in **economic diversification and green transformation** through inclusive strategy development and facilitation of cooperative implementation.
- Supporting RE projects to meet international standards for social and environmental risk management.
- **Capacity development** for local communities, small and medium enterprises and vulnerable groups in managing impacts from mineral production and coal transition.
- **Support to JETP** on conceptualising and implementing the Just Transition Framework. Organising dialogues and project matchmaking between regulators, financiers, and developers/investors.

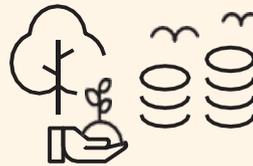
## Our Projects

The following projects within the Programme support the theme of "Just Energy Transition":

- **Innovation Regions for a Just Energy Transition (IKI JET IDN):** Ade Cahyat, Implementation Manager ([ade.cahyat@giz.de](mailto:ade.cahyat@giz.de)); 6.5M EUR; 2023 – 2026, IKI
- **Clean Affordable and Secure Energy (CASE IDN):** Deni Gumilang, Implementation Manager ([deni.gumilang@giz.de](mailto:deni.gumilang@giz.de)), 5.2M, 2020-2027, IKI
- **Fair and Accelerated Energy Transition towards Carbon Neutrality (FANTASTIC):** Ade Cahyat, Project Lead ([ade.cahyat@giz.de](mailto:ade.cahyat@giz.de)); 4M EUR; 2026-2030
- **Green Jobs for Social Inclusion and Sustainable Transformation (GESIT):** Ruly Marianti, Green Jobs for the Energy Transition Lead ([ruly.marianti@giz.de](mailto:ruly.marianti@giz.de)), 7.5M EUR with JETP Contribution 3.5M EUR; 2023 – 2027, BMZ
- **Green Energy / German-Indonesian Energy Cooperation Hub:** Ardian Candaputra, Implementation Manager ([ardian.candaputra@giz.de](mailto:ardian.candaputra@giz.de)); 2.55M EUR, 2024-2028
- **Nickel Impact Programme Indonesia (NIPI):** Ardian Alhadath, Project Manager ([ardian.alhadath@giz.de](mailto:ardian.alhadath@giz.de)); 2025-2028

## Our Mission

GIZ supports Indonesia in increasing the share of renewable energy by gaining public acceptance for a fossil fuel phase-out and replacement, as well as building innovative solutions for the shift away from fossil fuels towards affordable and clean energy for all.



## Outlook – What's Coming Next

- Consult on the draft National JET Framework with relevant ministries through SATGAS TEH and other inter-ministerial coordination processes
- Promote (agri) PV on ex-coal mine land: Assessing the technical and economic potential, as well as regulatory issues, involved in repurposing ex-mine land for large-scale renewable—particularly solar—development.
- Facilitating stakeholders' agreement on economic diversification and green transformation plan in East Kalimantan and South Sumatra.
- Launching the skills roadmap for solar PV expansion in East Kalimantan and supporting local education and training providers to provide relevant training offers and to qualify instructors
- Electrical and clean energy training for formal and informal workers at high risk of being affected by the coal transition in East Kalimantan and South Sumatra.
- Strengthening the capacity of organizations supporting (women-led) SMEs in coal mining areas as well as promoting increased labour market participation of women in the renewables field
- Establishing a community forum to analyze impacts and identify priority collaborative actions for improving the quality of safe water, community health, and biodiversity in the nickel-producing area of Weda Bay

## Contact Points

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**GIZ Strategic Themes:**



Industry Decarbonisation



Island Energy Solutions



Power System Transformation



Just Energy Transition



Sustainable Energy Finance