

Green Infrastructure Development (GID)

Preparing Environment and/or Climate-relevant Infrastructure in Solid Waste Management, Water and Wastewater Management, and Urban Public Transport

Project name	Green Infrastructure Development (GID)
Project region	Indonesia: West Java, Central Java, East Java, Bali, Special Region of Yogyakarta, and East Nusa Tenggara
Commissioned by	German Federal Ministry for Economic Cooperation and Development (BMZ)
Lead executing agency	Indonesian Coordinating Ministry of Maritime Affairs and Investment (CMMAI)
Budget	9.400.000 EUR
Timeframe	11/2020 to 10/2024



Background

Indonesia's impressive socioeconomic development over the past two decades has detrimental negative impacts on the environment. According to the "Global Carbon Atlas", Indonesia ranks 10th in the list of the largest emitters of greenhouse gases (GHG). Of the total of approx. 5 tons of CO₂ emissions per capita, a large part is attributable to urban areas (transport, waste, water/wastewater, energy)

The continuing lack of urban infrastructure in the sector of waste, water/wastewater, and transportation lead to widespread congestion, excessive pressure on electricity grids and water supplies. This causes significant environmental impacts and further increases greenhouse gas emissions. However, the three sectors are already included in the Indonesian Medium-Term Development Plan 2020-2024. The vast infrastructure needed (both the preparation of bankable projects and their financing) to archive the goals of the Indonesian Government requires the acceleration of planning and preparation processes.

Indonesia joined the NDC (Nationally determined contribution) partnership in 2016 and launched a bilateral initiative with

Germany, the Indonesian-German Green Infrastructure Initiative in 2019 which encompasses a financial cooperation facility via the German Development Bank KfW, via subsidized and promotional loans of up to EUR 2,5 billion to support the preparation and implementation of green infrastructure projects in Indonesia. Yet, planning and implementing infrastructure projects possess a lengthy and complex process. Comprehensively incorporating aspects of environmental protection, the reduction of greenhouse gas emissions and gender equality in this process has not yet been achieved. These features constitute prerequisites for funding under the Indonesian - German Infrastructure Initiative.

Against this background, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and the Indonesian Coordinating Ministry of Maritime Affairs and Investment (CMMAI) jointly implement the Green Infrastructure Development (GID) project to identify, select, and prepare environment and climate-relevant infrastructure projects in selected provinces in Indonesia

Objective

Environment and climate-relevant infrastructure projects for the Indonesian-German Green Infrastructure Initiative, which take gender aspects into account, are prepared

Graphic:

Partner provinces of the project:
West Java, Central Java, East Java,
Bali, Special Region of Yogyakarta,
East Nusa Tenggara



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Approach

The project aims to strengthen the capacities of the responsible actors at the national and sub-national levels (provinces, districts, cities). The main aim is to enable them to select and prioritize infrastructure projects for the Indonesian-German Green Infrastructure Initiative based on specific criteria agreed in national level and to prepare them for financing in cooperation with the sub-national and local levels.

The capacity development strategy of the project covers the Coordinating Ministry for Maritime Affairs and Investment (CMMAI) and the Committee for the Acceleration of Priority Infrastructure Delivery (KPPPI) as well as the Agencies for Regional Development (BAPPEDA) and other relevant local agencies in six selected provinces, namely West Java, Central Java, East Java, Bali, Special Region of Yogyakarta, and East Nusa Tenggara.

At the macro level, the internal processes of these government institutions for identifying, planning, and preparing infrastructure projects have the potential to be improved and coordinated more effectively. At the micro-level, the aim is to advance the technical skills to develop and apply general, sector-specific and gender-oriented criteria for the selection and preparation of green infrastructure projects.

All selection criteria will incorporate the “Leave No One Behind” (LNOB) principle. At the end of these processes, preliminary feasibility studies will prepare potential bankable environment and climate-relevant infrastructure projects in Indonesia to be financed and implemented by KfW and other development banks. This will support partners at national, sub-national, and local levels to identify priority green infrastructure projects in a coordinated manner and prepare them for implementation.

Currently the project has been tasked by the high-level steering committee of the Green Infrastructure Initiative to develop 15

project dossiers (project concept notes) into pre-feasibility studies. The titles of the dossiers are as follows:

1. Southern West Java Integrated Solid Waste Management – South Coast and Rebana Regional Integrated Solid Waste Management (Ciayu Maja Kuning)
2. Regional Sanitary Landfill (TPA) Sarbagita
3. Development of TPA Regional Kediri (Sanitary Landfill)
4. TPST Regional Magelang and Borobudur (Integrated landfill + 3R) and development of Integrated Solid Waste Treatment and Regional Landfill in Northern Central Java
5. Integrated Citarum Wastewater Management
6. Southern West Java Integrated Water Supply and Wastewater Management
7. SPAM Regional Lintas Tengah
8. Bengawan Solo Ayu (Solo River Water Quality Improvement)
9. Low Carbon Tourism Destination Development: Nusa Penida, Nusa Lembongan & Ceningan
10. BRT –Bandung Metropolitan Urban Public Transport (Electric Bus)
11. Bandung Metropolitan Urban Railways (Bandung LRT)
12. Surabaya Regional Railways Line (SRRL) 2ndPhase and Autonomous Railrapid Transit Surabaya –Bangkalan
13. Surabaya BRT
14. Corridor Petanglong (Greater Pekalongan)
15. Public Transport in Greater Solo: phasing out diesel fleets and Corridor Extension

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