



Ministry of Industry and Trade



Implemented by

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

On behalf of:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety

of the Federal Republic of Germany



Implement the project “Climate protection through sustainable bioenergy markets in Viet Nam” towards the goal of COP26

GIZ Energy Support Programme

CONTENT

1. Introduction of BEM project
2. Project activities towards the goal of COP26

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Climate Protection through Sustainable Bioenergy Markets in Viet Nam (BEM)



Objectives

The aim of BEM is to improve the preconditions for a **sustainable use of biomass for electricity and heat generation** in the country.



Time Frame

April 2019 – March 2023



Funding Agency

German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) through its International Climate Initiative (IKI)

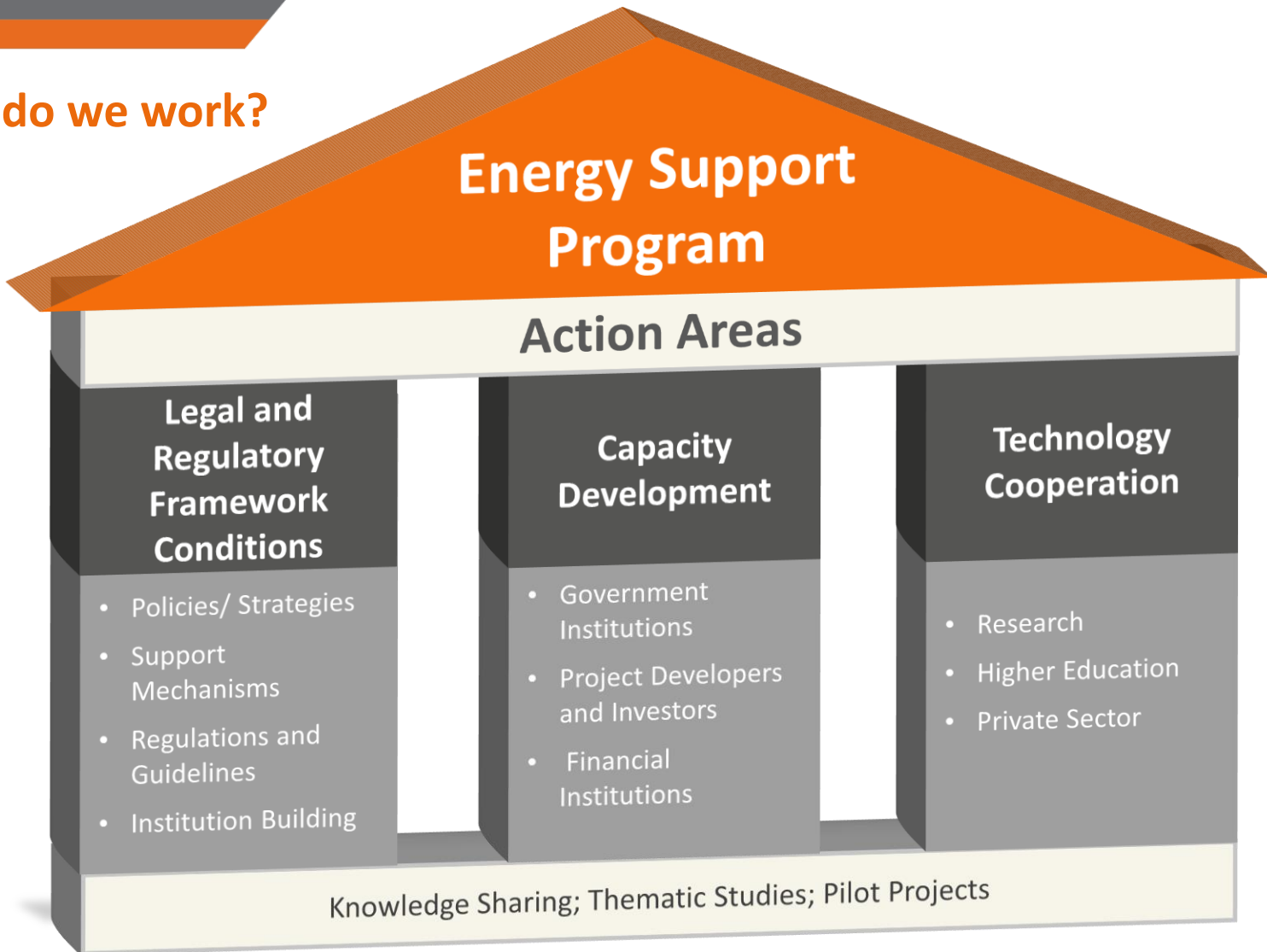


Partners

Line Agency: MOIT
Responsible Department: EREA

Approach of the Energy Support Programme (ESP)

How do we work?



Action area 1: Legal and regulatory framework

Support to the release of decision and circular for **biomass and biogas FIT**, integration of bioenergy in **PDP8**

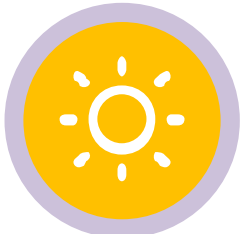





Policy dialogue with provincial authorities on bioenergy planning.

Contribute to establish a standard for biomass power plants

Development of an **environmental impact assessment** and approval instrument of bioenergy investment projects.

Further facilitate the regulatory framework on planning and licensing of bioenergy

RENEWABLE ENERGY – FITs and AVCTs

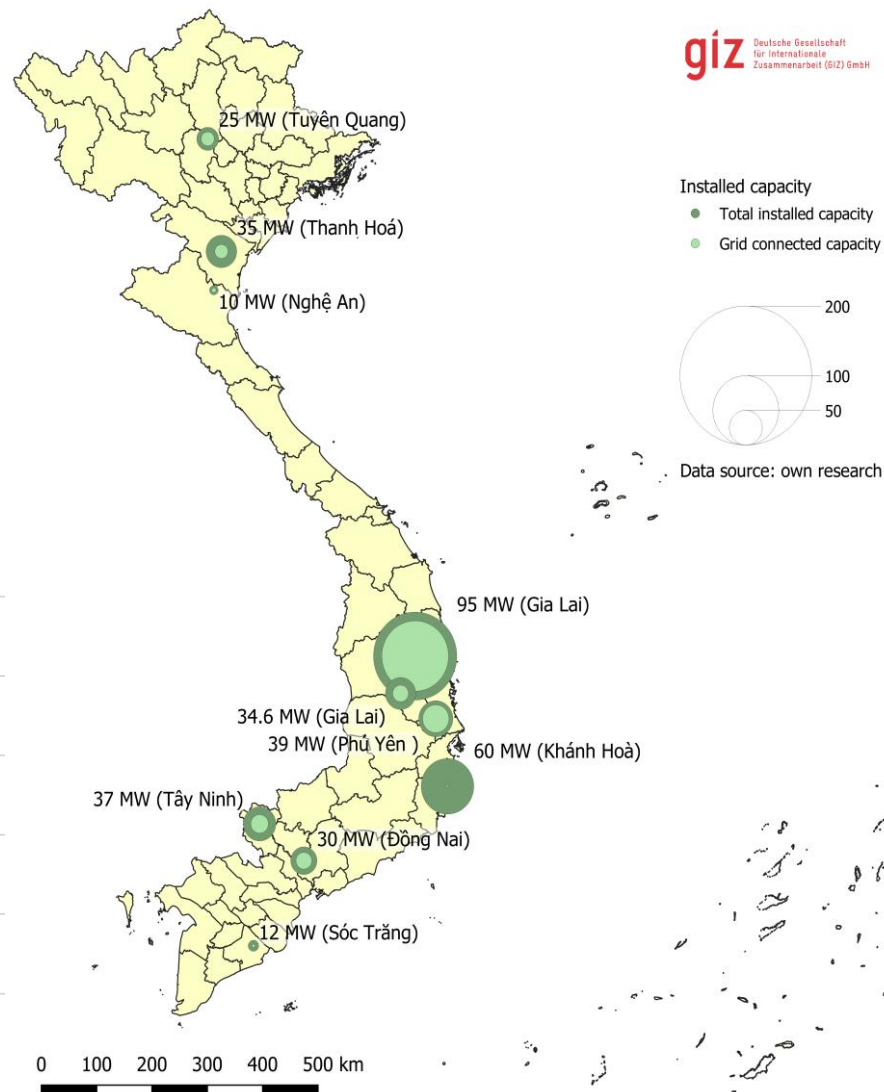
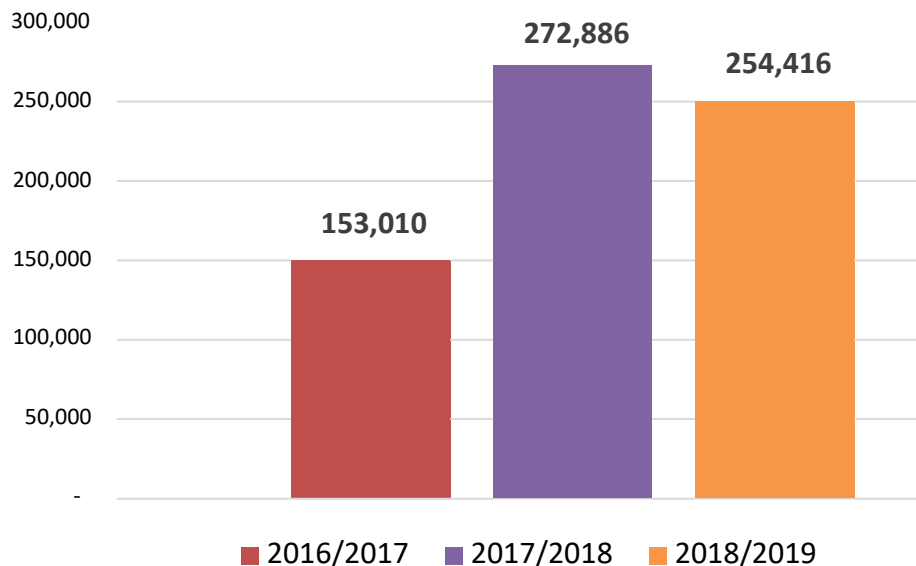
Solar	Wind	Biomass	Biogas	Small Hydropower	MSW
					
US¢ 7.69/kWh-floating US¢ 7.09/kWh-ground-mounted US¢ 8.38/kWh-rooftop	US¢ 8.5\kWh-onshore US¢ 9.8\kWh-offshore	US¢ 7.03\kWh	studied	AVCT	US¢ 7.28\kWh
FiT (ended 12/20)	FiT (ended 10/21)	FiT for combined heat and power			Landfill
Net-metering and remuneration of surplus for solar rooftops		US¢ 8.47/kWh FiT for non combined heat and power		By year, by season, by region	US¢ 10.05/kWh
20 years	20 years	20 years		20 years	20 years
PPA	PPA	PPA		PPA	PPA

Note: FIT stands for **Feed-in tariff**, AVCT stands for **Avoided cost tariff**. The AVCT is calculated annually based on the production cost of the most expensive power plant in the power system.

Bioenergy power plants

There are **10** bioenergy plants in operation with a **total installed capacity of 377.6 MW**. In which, **202.6 MW** are **grid connected capacity**. The **average project size is 35.55 MW**

Electricity production to grid from sugar mills (MWh)



Action area 2: Capacity development

Target participants:

- Decision-makers
- Engineers/Consultants
- Financial institutions

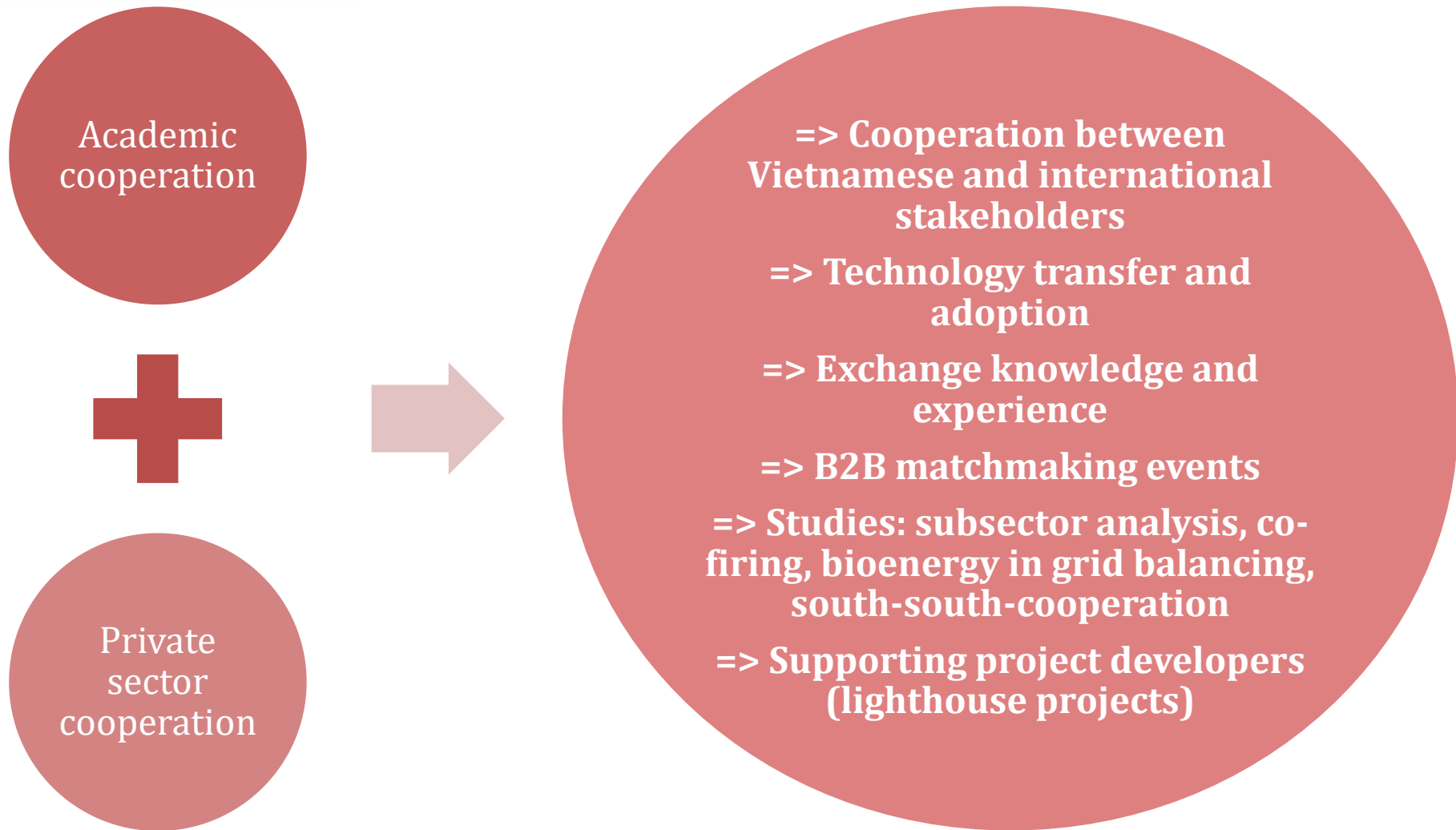
Capacity
Needs
Assessment

Identification
of pilot
projects for
pre-
/feasibility
studies

Trainings for
consulting
firms, project
developers,
and investors.

Support
association work
on knowledge
management
and
dissemination,
sectoral dialogue
events

Action area 3: Technology cooperation



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COP26 Commitments of Vietnam

- ▀ **Net zero** emissions by **2050** (phase out coal power in 2040)
- ▀ Reduce methane emissions across all sectors by **30%** by 2030)

BEM activities...realize commitments at COP 26

➤ Biomass:

- Proposing to review the FIT for biomass power project to encourage businesses to take advantage of agricultural by-products for power generation
- Coordinating with VSSA to assess the potential for electricity production on the off season
- Collaborate with textile enterprises to assess opportunities to replace coal-fired boilers with biomass-fired boilers
- Assessment the biomass supply chain
- Support investors to develop pre-feasibility reports on biomass power projects

BEM activities...realize commitments at COP 26

➤ **Biogas:**

- Studying on supporting mechanism for grid-connected biogas power projects
- Studying the role of biogas power projects in balancing the power grid
- Evaluation of the potential for biogas development in food processing and animal husbandry enterprises
- Support investors to develop pre-feasibility reports on biomass power projects

Thank you!

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<http://gizenergy.org.vn/en/>

VEPG:

<http://vepg.vn/>

