

A large field of solar panels is shown from a low angle, extending towards the horizon. The panels are blue with a white grid pattern. The sky is bright blue with scattered white clouds. The text is overlaid on the upper left portion of the image.

**EMPOWERING COMMUNITIES**

THROUGH IMPACTS OF A **JUST ENERGY TRANSITION**



GERMANY

20  
YEARS

# Gross power production in Germany 1990 - 2023, by source.

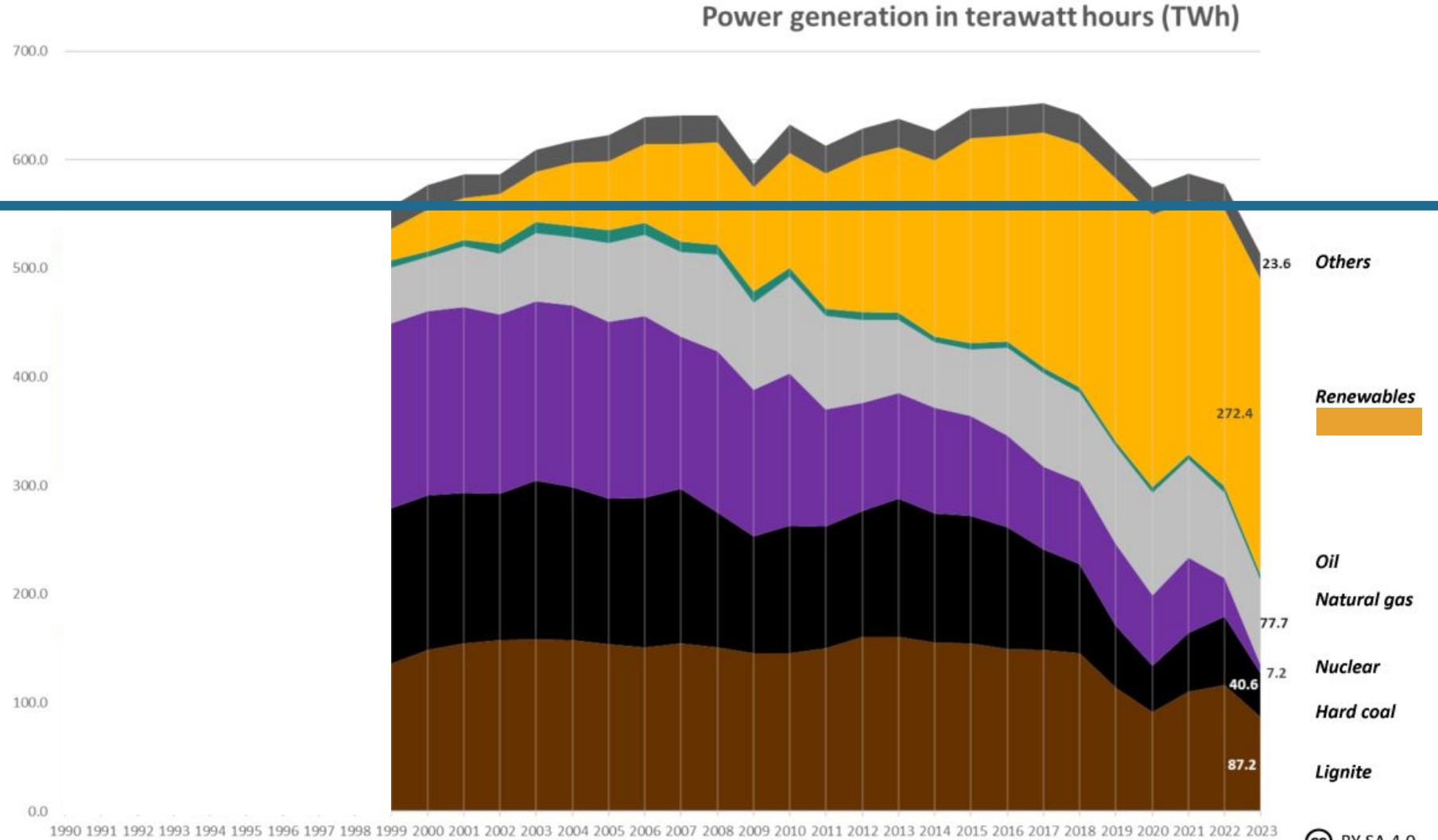
Data: AGEB 2024.



2000 2023

6%

56%  
RENEWABLE  
ELECTRICITY

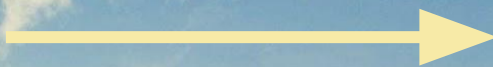




GERMANY YEAR 2000

**<15,000**

**GENERATORS**



GERMANY YEAR 2024

**3,600,000**

**GENERATORS**

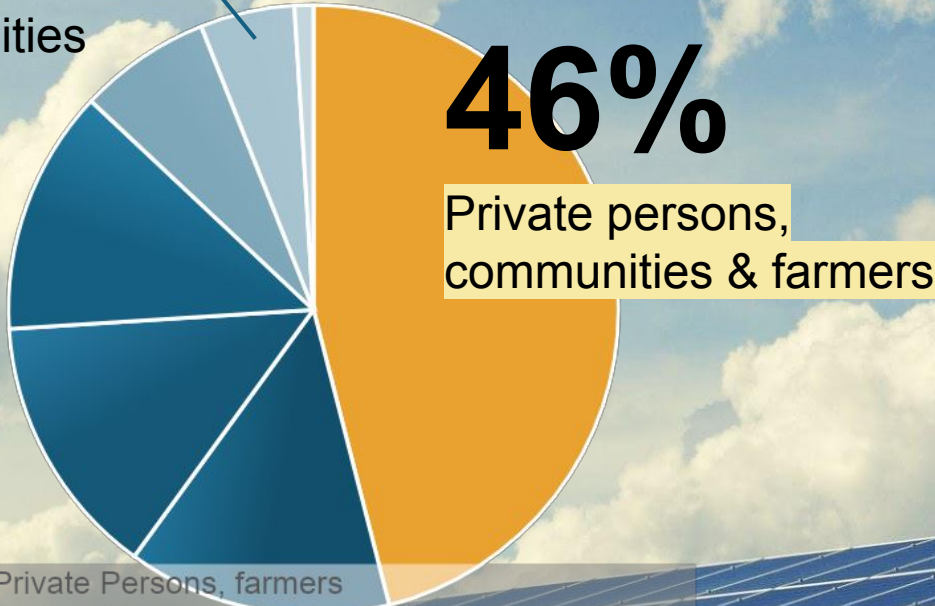




ownership RE in 2013

5%

Large utilities



- Private Persons, farmers
- Project Developers
- Industry
- Fonds / Banks
- Other Energy Suppliers
- Large Utilities
- Other



**ENERGY DEMOCRACY**



INDONESIA

YEAR

2024

#competitiveness



INDONESIA EMAS

YEAR

2045

#green markets





INDONESIA  
**2024**

PLN mini grid  
Pulau Messah, NTT





# INDONESIA 2024



Implemented by:  
**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH



KEMENTERIAN  
ENERGI DAN SUMBER DAYA ALAM  
REPUBLIK INDONESIA



KEMENTERIAN  
KELAUTAN DAN PERIKANAN  
REPUBLIK INDONESIA



KEMENTERIAN KOORDINATOR  
BIDANG KEMARITIMAN  
DAN INVESTASI

## Agriculture



IPB Bogor 2024

## Fisheries



Nusatuna 2024



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für Internationale  
Zusammenarbeit (GIZ) GmbH



KEMENTERIAN KOORDINATOR  
BIDANG KEMARITIMAN  
DAN INVESTASI

## Cooperation Agreement

### Solar-powered Cold Rooms for Farmers



**IPB University**  
— Bogor Indonesia —

**Fresh Factory**  
Hyperlocal, Cold Chain Fulfillment & Enabler

## Memorandum of Understanding

### Reducing Carbon-Emissions in Sustainable Tuna Supply Chains



**NUSATUNA**



**USAID**  
DARI RAKYAT AMERIKA