

# POWERE

## PARTICIPATION OF WOMEN IN RENEWABLE ENERGY

### Inclusive Innovation with Floating Photovoltaics in Remote Island and Coastal Communities

#### VISION

The Global South, especially island and coastal communities, faces severe climate vulnerabilities due to poverty, inequality, and reliance on climate-dependent sectors, worsened by rising sea levels, extreme weather, and limited energy access. Many off-grid communities depend on costly, polluting fossil fuels like diesel. POWERE introduces near-offshore floating photovoltaics (FPV) as an inclusive renewable energy solution, starting in South Sulawesi, Indonesia. By integrating FPV with women-led seaweed farming cooperatives, the initiative aims to empower marginalised coastal communities through sustainable energy access and economic opportunities, fostering both environmental and social resilience.



#### OBJECTIVES

- **Deploy FPV to Replace Diesel Energy:** Transition seaweed-farming self-help groups (SHG) from diesel to FPV.
- **Enhance Women's Economic Empowerment:** Strengthen SHGs as co-owners of energy infrastructure, improving economic resilience.
- **Promote Sustainable Seaweed Farming:** Facilitate improved drying-oven technology and value-added processing and products.
- **Foster Inclusive Energy Transitions:** Position women at the forefront of building a social infrastructure for equitable energy transitions.
- **Develop Scalable and Replicable Models:** Create multilingual multimedia toolkits, other resources and Knowledge Exchange activities to extend POWERE's impact across the Global South.

#### IMPACT

- **Energy Access:** Demonstrate how to make FPV into a viable, off-grid, socially-embedded energy solution for marginalised communities.
- **Gender Equity:** Strengthen women's leadership in energy transitions, entrepreneurship, and decision-making.
- **Economic Development:** Enhance income generation, reducing poverty in remote coastal communities.
- **Environmental Benefits:** Reduce carbon emissions while promoting sustainable blue-green economy initiatives.
- **Climate Equity:** Empower vulnerable communities to participate in climate change solutions, without being unfairly burdened by climate change impact or transitions to a sustainable, low-carbon economy.

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