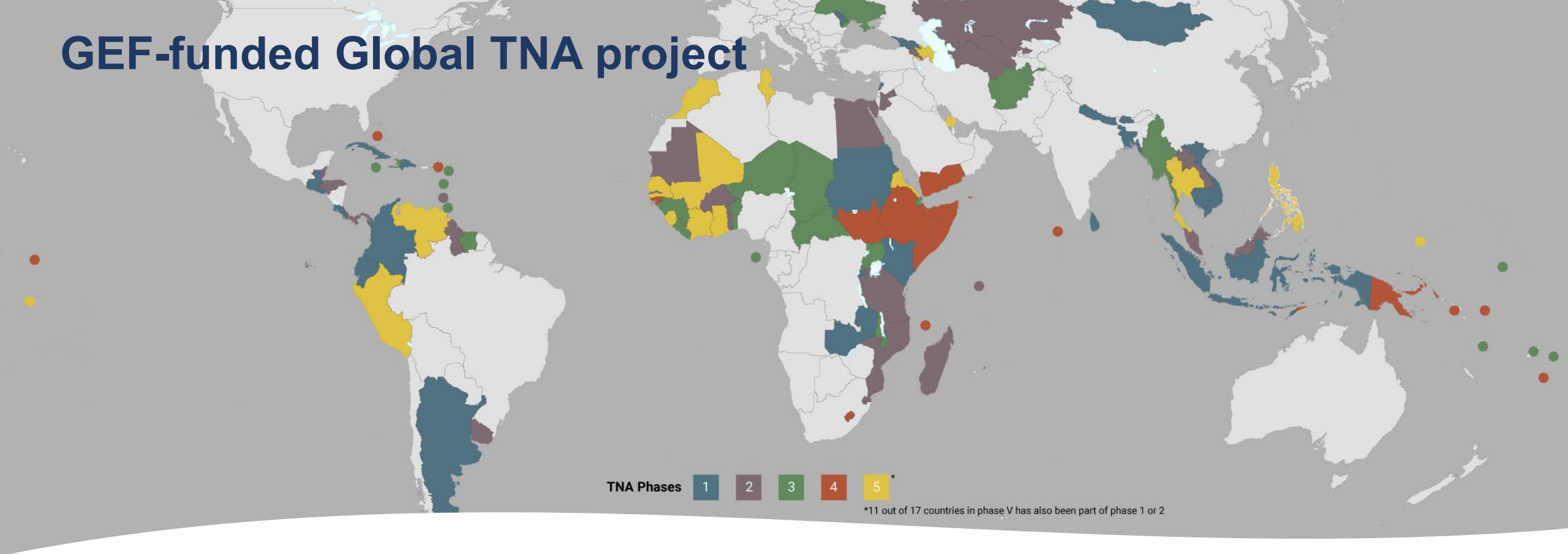


Progress on the GEF-funded Global Technology Needs Assessment (TNA) Project

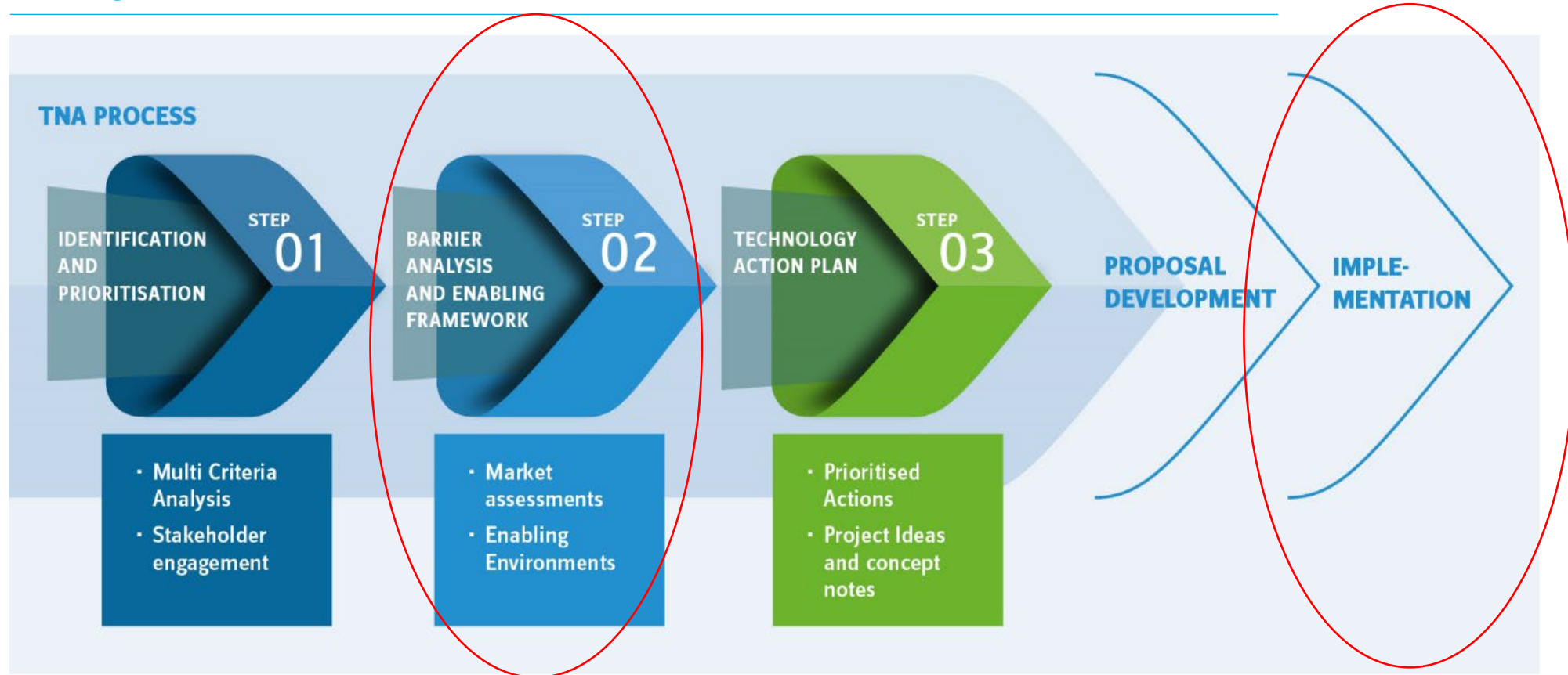


GEF-funded Global TNA project



	Year	No. of countries	GEF project financing, USD
Phase I	2009 – 2013	36	8,200,000
Phase II	2014 – 2018	22	6,100,000
Phase III	2018 – 2023	23	6,210,000
Phase IV	2020 – 2025	17	4,590,000
Phase V	2025 – 2027	17	5,100,000
		115	30,200,000

Progress Overview



TNA Phase V, 2025 – 2027

Azerbaijan, Cook Islands, Côte d'Ivoire, Bahrain, Eritrea, Federal States of Micronesia, Ghana, Mali, Mongolia, Morocco, Peru, Philippines, Senegal, Sierra Leone, Thailand, Tunisia and Venezuela

TNA Phase IV, 2020 – 2025

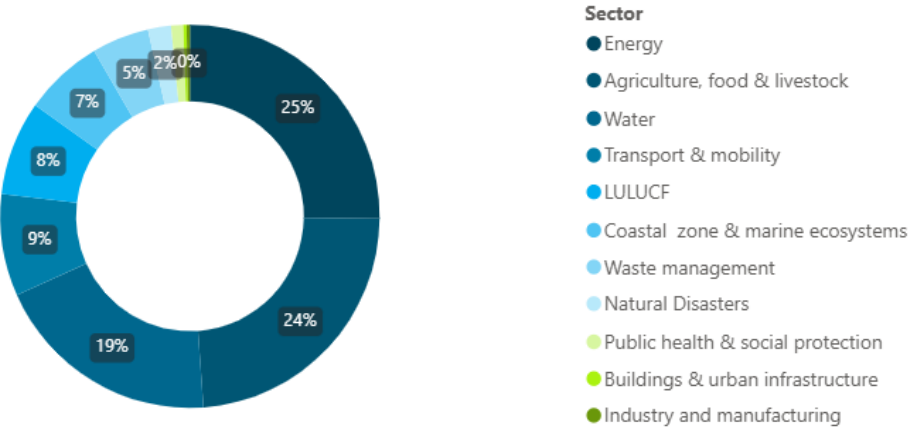
Completed July 2025

Terminal Evaluation completed Oct 2026

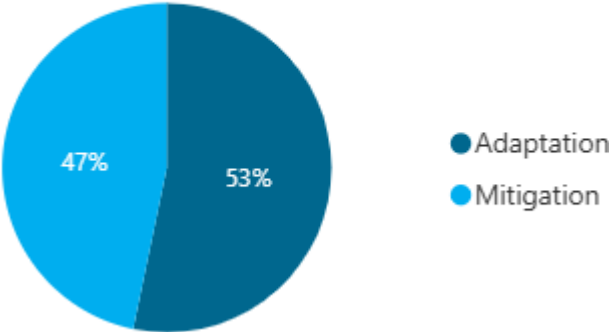
Emerging Sector Priorities Phase I-IV vs. Phase V

Phase I - IV

Distribution of Technologies by Sector

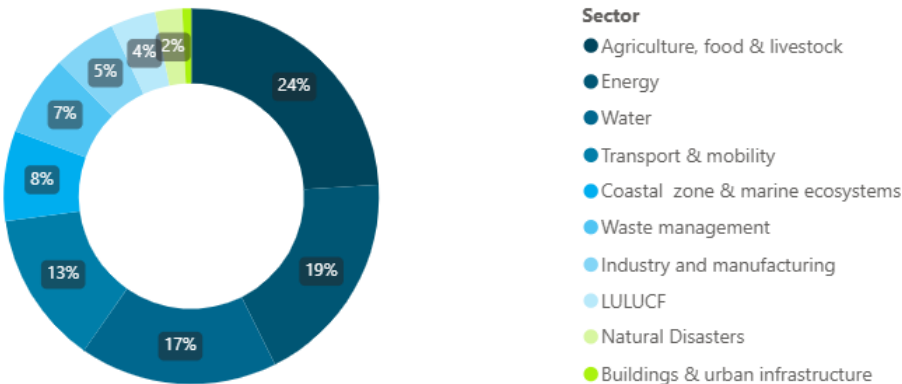


Climate Action Response

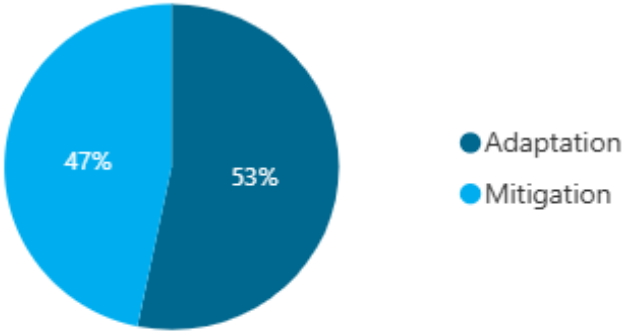


Phase V

Distribution of Technologies by Sector



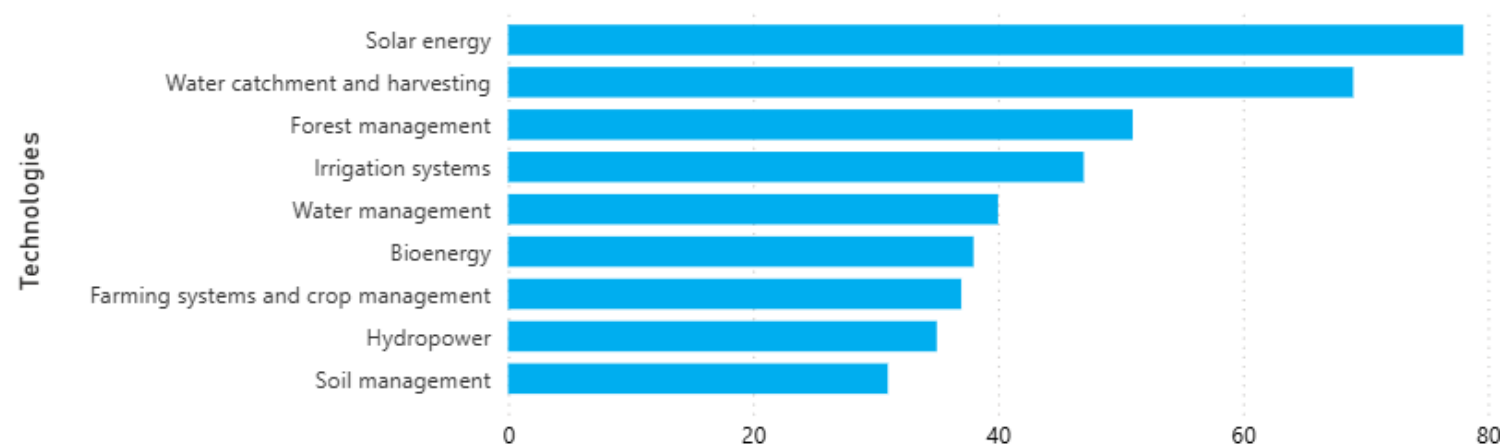
Climate Action Response



Emerging Technology Priorities Phase I – IV vs. Phase V

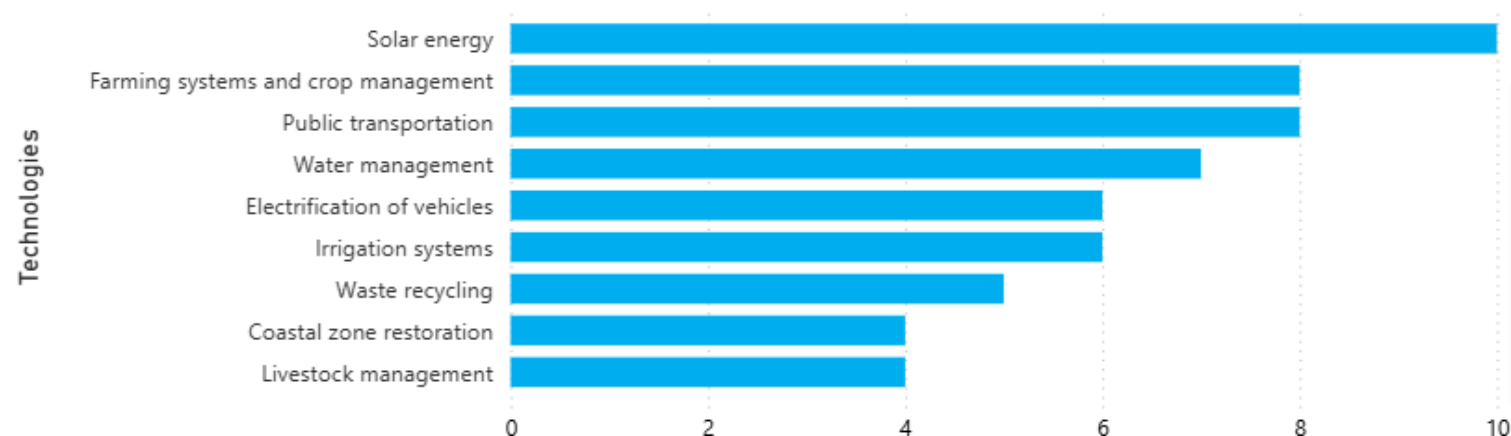
Phase I - IV

Top Prioritized Technologies



Phase V

Top Prioritized Technologies



TNA Phase VI

GEF 9

Considerations

- Overall framing: NDC update and implementation
- Updated concept, which will allow countries to choose from various options for an enhanced flexible approach

Next step

- Currently receiving letters of endorsement from countries
- Preparing the project document
- Expected start end 2027/start 2028

Countries

- The project continues to gain momentum, with countries having submitted letters of endorsement from across the different regions, so far with a majority countries from Africa

TNA VI structuring options:

- National level priorities and action planning ► Package 1
- Localization for implementation ► Package 2
- Sector-level investment readiness ► Package 3

TNA Impacts

Fiji

Strengthening the Adaptive Capacity of Coastal Communities of Fiji to Climate Change through Nature-Based Seawalls

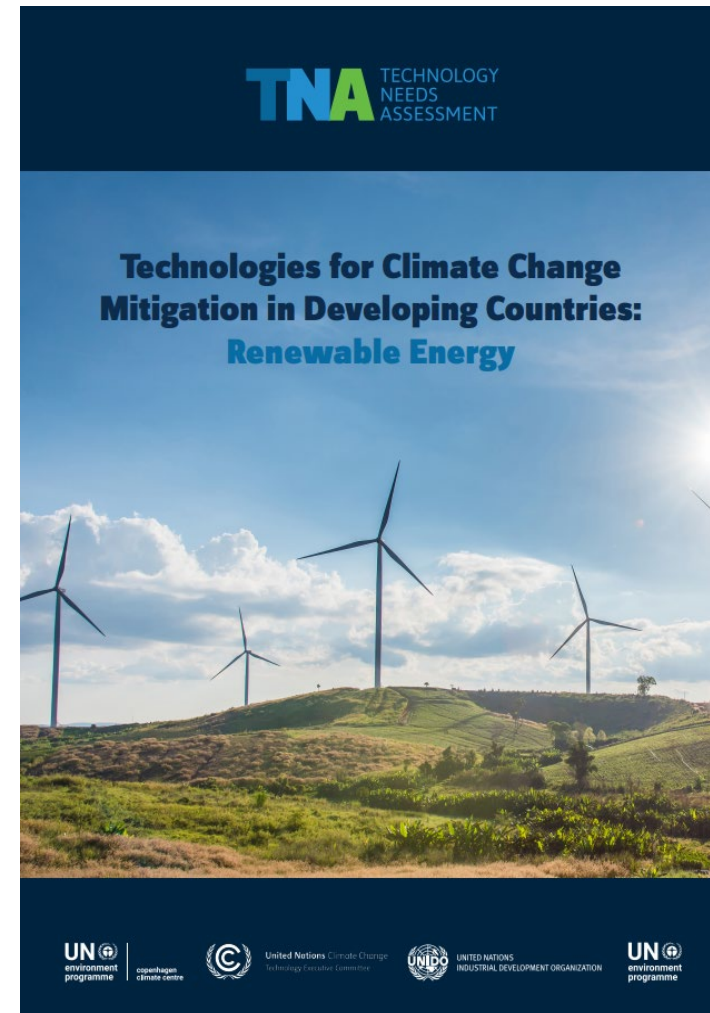
- **USD 5.7M Adaptation Fund**
- **Hybrid approach** combining engineering with natural buffers, using local materials and community labour.
- **Supports 6 vulnerable villages**
- Direct benefits: **~2,500 people**
- Indirect benefits: **~30,000 people** (~3.2% of Fiji's population)
- **Enhances resilience** while preserving biodiversity and cultural heritage; promotes community-led and socially inclusive adaptation.

Madagascar

Increased Energy Access for Productive Use through Small Hydropower Development in Rural Areas

- **USD 2.85M GEF, \$14.3M co-financing mobilized**
- **Energy Access:**
 - ~2 MW installed | ~13,140 MWh/year generated
 - Rural electrification via mini-grids
- **Beneficiaries**
 - 'Thousands' of households & micro-enterprises reached
- **Social and Economic Impacts**
 - Enabled agro-processing & local businesses
 - Better access to education, health & lighting, improved quality of life
- **Climate Impacts**
 - ~131,400 tCO₂ avoided
 - Reduced diesel/biomass use





From Publication to Practice: Expanding the Reach of the Renewable Energy TNA Guidebook

Dissemination and outreach

- Regional capacity-building workshops across Asia-Pacific, Latin America, Anglophone and Francophone Africa
- National inception workshops in 16 TNA Phase V countries
- Featured at international events including:
 - COP31 Brazil, (2025)
 - IVECF, Austria (2026)

Recent uptake through NDE Forums

- **Asia NDE Forum (2026)**
 - Included in pre-forum materials and capacity-building sessions
 - Used to support discussions on renewable energy deployment challenges and technical assistance needs
 - Helped identify country priorities and strengthen NDE-NDA collaboration
- **Pacific NDE Forum (2026)**
 - Featured in the energy session (17 September)
 - Presented by UNIDO
 - Expanding outreach and application of the guidebook in Pacific countries

Value and reach

- Supporting TNA Phase V countries' renewable energy planning
- Informing capacity-building and technical assistance priorities
- Showcasing the impact of TEC-UNIDO-UNEP-CCC collaboration



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Thank you

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<http://unfccc.int/ttclear/tna>

TNA TECHNOLOGY
NEEDS
ASSESSMENT