



Other Renewable Energies' Partners

Climate Change Mitigation
at UNDP

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IRENA Project Navigator Workshop

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Presentation Outline

1. UNDP promoting low-carbon solutions
2. UNDP as a GEF implementing agency
3. UNDP/GEF in Africa & SIDS
4. Knowledge & Policy products

Section 1: UNDP Supporting Low-carbon solutions

UNDP WORKS FOR A LOW-EMISSIONS CLIMATE RESILIENT DEVELOPMENT APPROACH

UNDP's work on sustainable energy and climate change

UNDP/GEF works with many sustainable energy partners

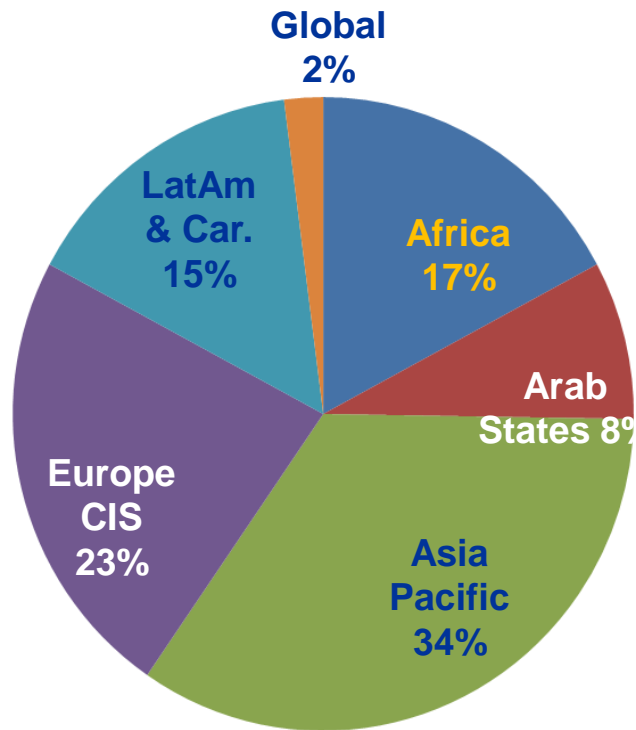


UNDP's approach

- **Low-emission, climate-resilient development**
 - Basis and anchor of the strategy
 - Starting point for improving energy for development, with focus on the poor
- **Achieving market transformation to catalyze finance**
 - Creating enabling policy & regulatory frameworks
 - Using barrier removal approach
- **Innovative public-private partnerships**
 - To reduce investment risks, optimize the use of both sources of finance, and pool public and private sector talents and strategic capabilities
 - Rapid scale-up of energy access

Overview of the UNDP/GEF Energy, Infrastructure, Technology and Transport (EITT) Team

EITT Project Portfolio



155 active projects
 USD 0.5 billion in GEF financing
 USD 4 billion in co-financing

Signature Programmes

- Clean Energy**
 Promoting access to clean and affordable energy systems and services – SE4A
- Urban Infrastructure**
 Promoting low-emission and climate-resilient urban and transport infrastructure
- Climate Finance**
 Access to new finance mechanisms (NAMAs, market-based instruments)

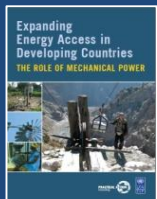
Our Global EITT energy portfolio: 200 large projects, 2,500 small projects



Access to electricity (on- and off-grid):
\$260 m + \$900m in co-financing



Access to clean fuel for heating and cooking:
\$100 m + \$300m in co-financing



Access to mechanical power:
\$50 m + \$50m in co-financing

\$410m + \$1.25bn in co-finance



Energy efficiency and conservation:
\$265 m + \$1.2bn in co-financing



Sustainable urban and transport systems:
\$85 m + \$ 820 m co-fin

\$350m + \$2bn in co-finance

The current UNDP/GEF climate change mitigation portfolio in Sub-Saharan Africa consists of more than 40 full-size or medium sized projects

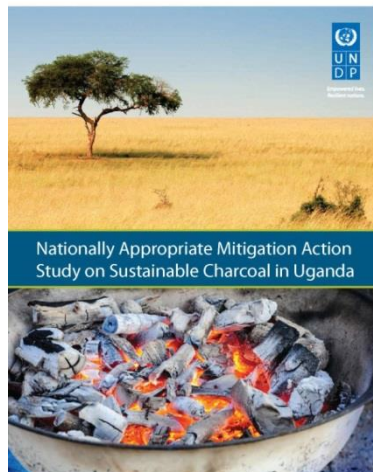
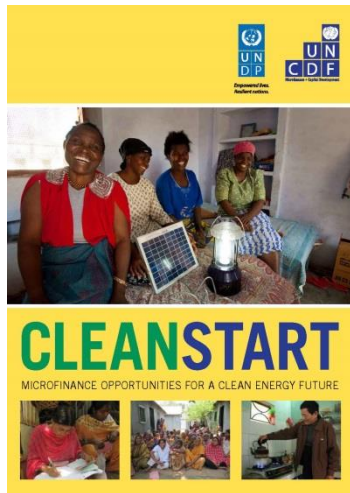
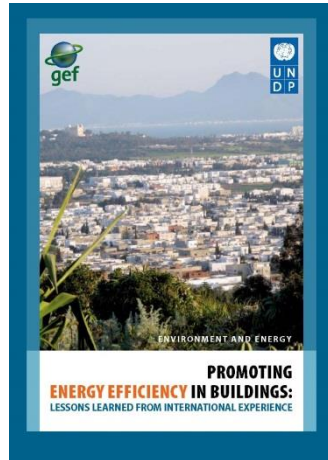
Methodological approach to achieve Transformational Change

Transformational change

- ✓ Markets (e.g. on-grid renewable; buildings)
- ✓ Of entire supply and value chains (e.g. SWHs, charcoal, cook stoves)
- ✓ Economic sectors (e.g. select industries; maritime shipping, agri-business)
- ✓ At the level of spatial/geographic units (e.g. urban centers – cities; entire (small) countries, like SIDS)

Common principles:

- ✓ Make most cost-effective use of scarce public resources to maximize private sector finance leverage;
- ✓ Interventions must lead to scale-up;
- ✓ In line with UNDP Strategic Plan;
- ✓ Explore untested, innovative approaches;
- ✓ Focus on marginalized groups and human development dimensions



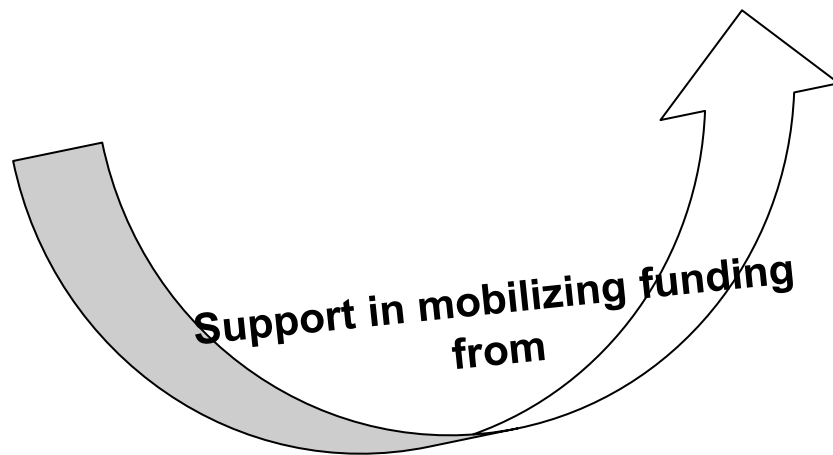
Section 2: UNDP as a GEF Agency

LEVERAGING SUPPORT, PROMOTING PARTNERSHIPS AND
MOBILIZING FUNDING FOR INNOVATIVE LOW-CARBON SOLUTIONS

UNDP: development partner & GEF implementing agency

UNDP as GEF implementing Agency:

▪ Assist eligible governments and NGOs in the development, implementation, and management projects funded by GEF



GEF (Global Environmental Fund)



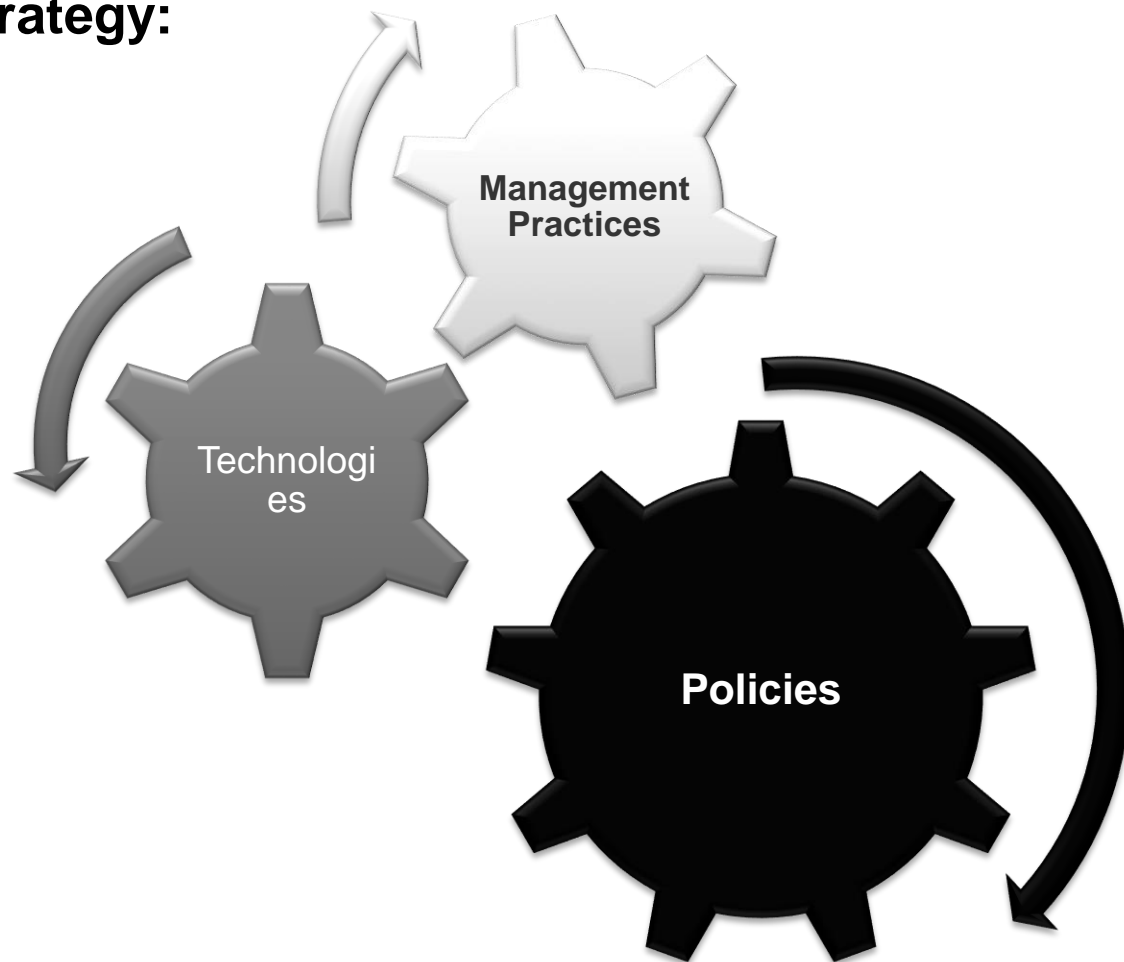
- Support measures to address key drivers of global environmental degradation
- Climate Change Focal Area : GEF supports countries towards a low-carbon development path.

UNDP as GEF implementing agency

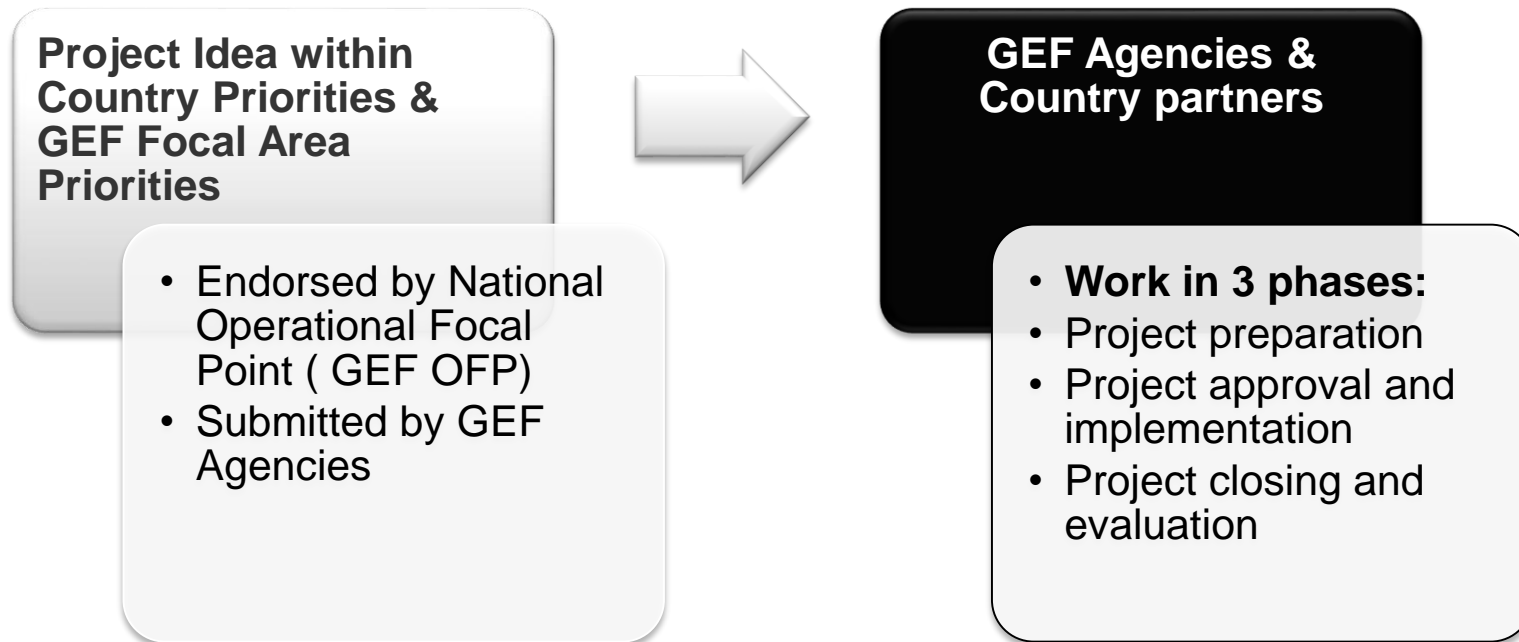
GEF (Global Environmental Fund) Climate Change Focal Area Strategy:

More than an investment bank:

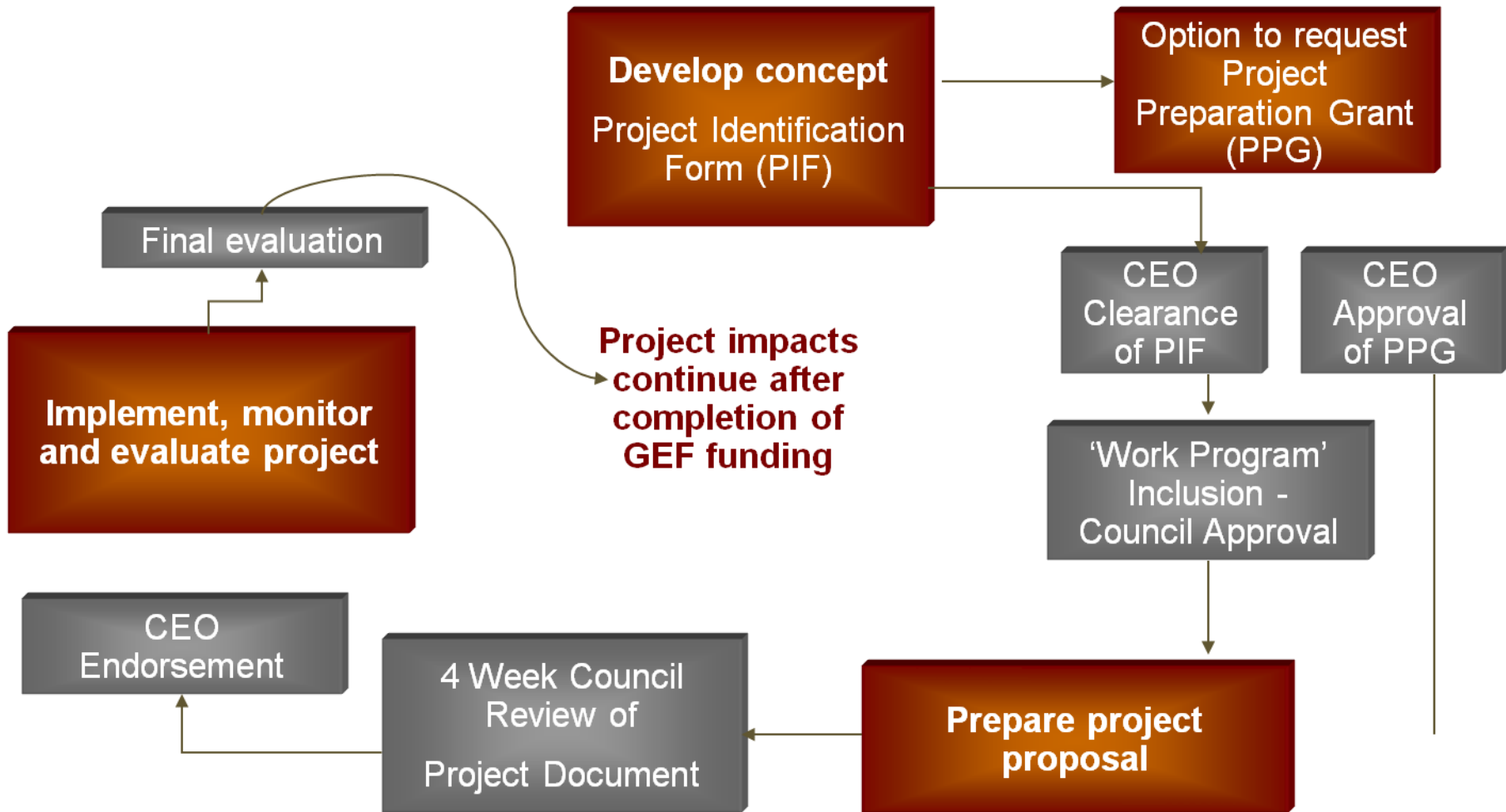
- Supporting integrated approaches that combine policies, technologies, and management practices with significant climate change mitigation potential.
- Transforming policy frameworks, creating demonstration effects through innovation, and setting standards to shift markets



UNDP/GEF project development cycle: main stages



UNDP/GEF Full Project Cycle Explained



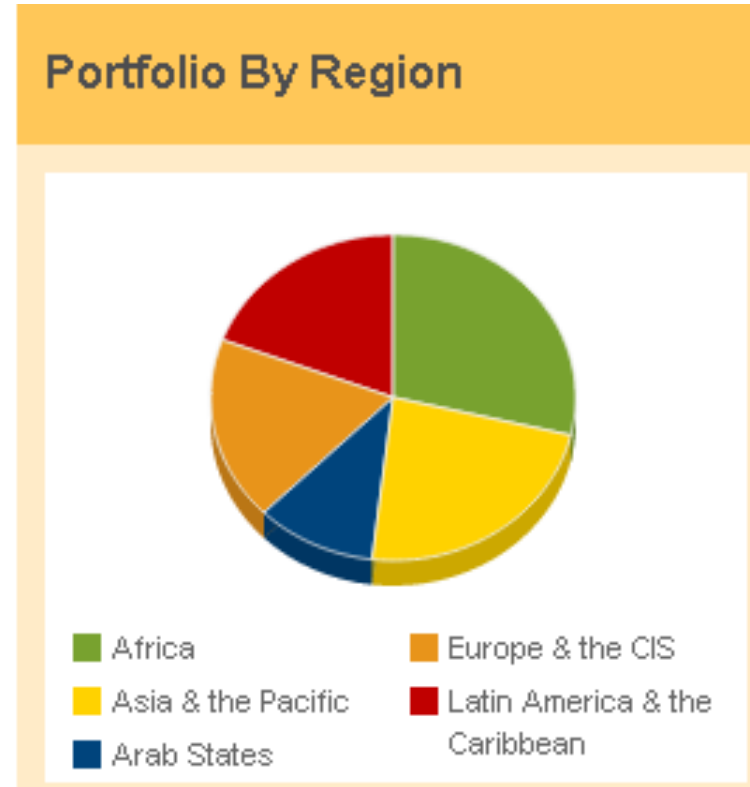


UNDP/GEF Small Grant Program: a mechanism to directly support community associations access to RET

346 Project with a focus in Renewable energies for a total amount of \$ 10.8 million USD.

125 were in Africa

Mechanisms: Calls for project launched by country open to community associations, non-for profit organizations, NGOs,



<http://www.gefsgp.org/cv/>

Community Action Global Impact

Project Development phase: Which elements are key to ensure project successful formulation & approval

❖ *Project development for GEF/UNDP as a Grant mechanism to support creating global environmental benefits, differs from Credit financing mechanism*

Important elements to ensure project success

- Good analysis of barriers (financial, economic, technical, socio-cultural, policy, institutional, etc.)
- Stakeholders' consultation and participation on defining the project strategy
- Country appropriation of intervention strategy
- Project rationale address local socio-economic & environmental benefits and global environmental benefits (GHG's emissions potential)
- Co-financing (parallel mobilized co-financing & promoter's co-participation)
- Good Assessment of technical, social, political and financial feasibility
- Sound M&E Framework: baseline data & impact indicators
- Quality control (supported by UNDP Regional and Principal Advisors)
- Mechanism to ensure sustainability

Section 3: UNDP niche in SIDS & Africa

INTEGRATED SUPPORT TOWARDS A LOW-CARBON DEVELOPMENT PATH.

A UNDP/GEF Niche in Africa: Decentralized Bottom-Up Solutions

Achieving the 3 objectives of Sustainable Energy for All...(SE4ALL)

... makes many development goals possible

....it is not just about power stations, transformers and distribution lines (though critical and important)



Ensuring universal Energy Access

- Improved **health**
Improved agricultural **productivity**
- **Empowerment of women**
- Business and **employment** creation
- Economic development and equity
- Achievement of the **Millennium Development Goals**



Doubling the share of Renewable Energy

- Affordable energy even where grid does not reach
- New opportunities for small entrepreneurs
- Decreased variability in energy costs
- Energy security and reduced import bills
- Reduced environmental impacts



Doubling the rate of improvement in Energy Efficiency

- Lighting / appliances that require less power
- Fossil fuel resources used more effectively
- Reduced energy costs for consumers
- Redistribution of electricity that now is wasted or lost
- More reliable electricity systems

UNDP/GEF in Cabo Verde: Current Portfolio

Current projects: PPG Phase

- **UNDP GEF** Removing barriers to energy efficiency in the Cabo Verdean built environment and for appliances
- **Budget:** \$2,218,400 (GEF budget: \$1,918,400 and UNDP budget \$300,000)
- **Project Objective:** Enable and facilitate the market transformation leading to substantial energy savings and greenhouse gas reductions of 289,306 tCO₂ through EE policies in buildings and appliances as well as direct project implementation

UNDP - SGP/GEF

- **Approved:**
 - 3 RE applications for agriculture production activities. Total grant of: \$123,000 USD
 - 1 Off-grid rural Wind turbine: Grant of \$31,000 USD
- **In pipeline- Operational Program V**
 - 2 RE projects in Santo Antão island. Total grant of: \$150,000.

Section 4: Policy Advise & Knowledge Management

UNDP AS A KNOWLEDGE ORGANISATION

UNDP Climate Finance Tools and Guidance Materials



Websites for further info:

www.undp.org/climatestrategies.org

www.undp.org/gef

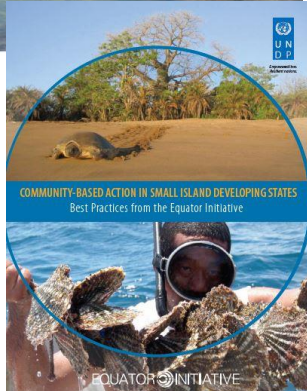
<http://www.lowemissiondevelopment.org/>

Insights in Knowledge Products relevant for IRENA Project Navigator:

SIDS Innovations & Best practices

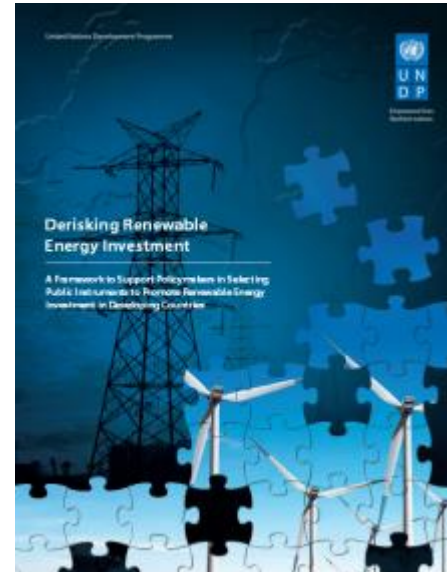


1. Island Innovations – UNDP and GEF: Leveraging the Environment for the Sustainable Development of Small Island Developing States



2. Community-Based Action in Small Island Developing States. Best Practices from the Equator Initiative.

De- Risking Investments in Renewable Energies



Case Study: Support for Energy Services in Mauritius

Energy-Efficiency standards & policies



The *Maurice Ile Durable* (MID – Mauritius Sustainable Island) plan aims to make Mauritius less dependent on fossil fuels through increased utilization of renewable energy and promotion of more efficient use of energy, with the aim of increasing the renewable energy share to 35% by 2025.

Renewable Energy incentives and policies



UNDP/GEF support for:

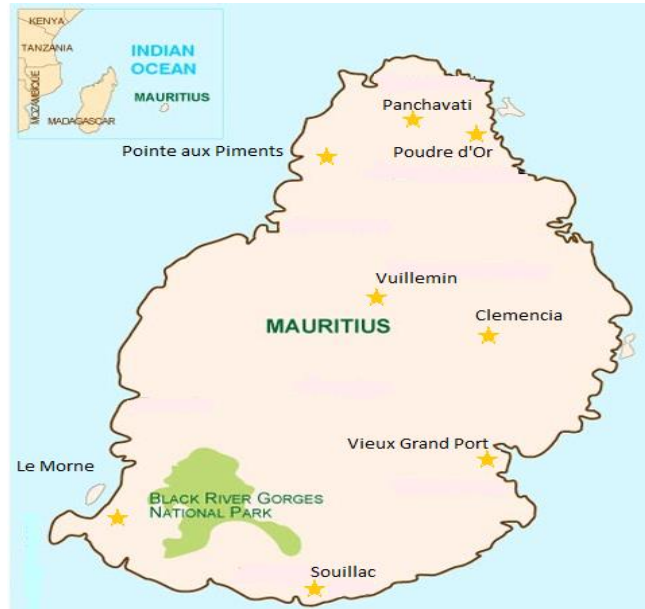
- ✓ RE legislation enacted
- ✓ Grid Code and SSDG FiT scheme for systems < 50kW
- ✓ Standardized PPAs
- ✓ Public awareness
- ✓ New UNDP/GEF project focused on utility-size PV

Complemented by...

- ✓ Support for grid emissions factor tool developed ~ activities under UNDP CD4CDM project
- ✓ CDM project services for 25 MW wind farm (Britannia) w/ UNDP MDG Carbon Facility
- ✓ 8 eco-village pilots (see map)

UNDP/GEF support for:

- ✓ Energy Efficiency Bill is now drafted & before parliament
- ✓ Establishment of EE Management Office
- ✓ Introduction of Energy Audit Management Scheme
- ✓ Building Control Bill & EE codes drafted
- ✓ Mandatory standards and labeling guidelines for appliances drafted
- ✓ Public awareness campaigns launched



With support from MID, the roll-out of CFLs (1 mil) and SWHs (29K) in homes and LED streetlights is underway...



Case Study: Support for Energy Services in Mauritius

Pioneering Feed-in-Tariff Scheme for Small-Scale RETs

Prior to 2010, ***no framework existed*** which would allow small independent power producers to sell their production on the grid. The Maurice Ile Durable vision of the Government was to enable the population to produce their own electricity to achieve LT energy independence and contribute to the fight against climate change. With input from UNDP and support from GEF, the Ministry of Energy and Public Utilities together with the Central Electricity Board ***launched a Grid Code*** in December 2010 ***with a scheme for up to 200 SIPPs or 4MW worth of systems.***



Key outcomes of the project:

- **UNDP provided assistance at all stages of development of the grid code and FiT scheme, helping advise on specific tariffs for different technologies (net metering) and installations sizes based on other success stories around the world.**
- **At mid-2014–1MW installed and more than 400 (worth 3.8 MW) additional applications received, indicating that the first phase of the scheme is likely to be oversubscribed. Many of these applications are mini (2.5kW -10 kW) and small systems (10-50 kW); > 400 residential PV applications (600kW) have applied to date.**
- For more information go to: <http://ceb.intnet.mu/>



MUITO OBRIGADA PELA ATENÇÃO
MANY THANKS for YOUR ATTENTION

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