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# UNIDO's Energy and Climate Change Programme

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# Energy and Climate Change Programme

Providing Integrated Energy Solutions for the  
Inclusive and Sustainable Industrial Development (ISID)

## KEY FOCUS

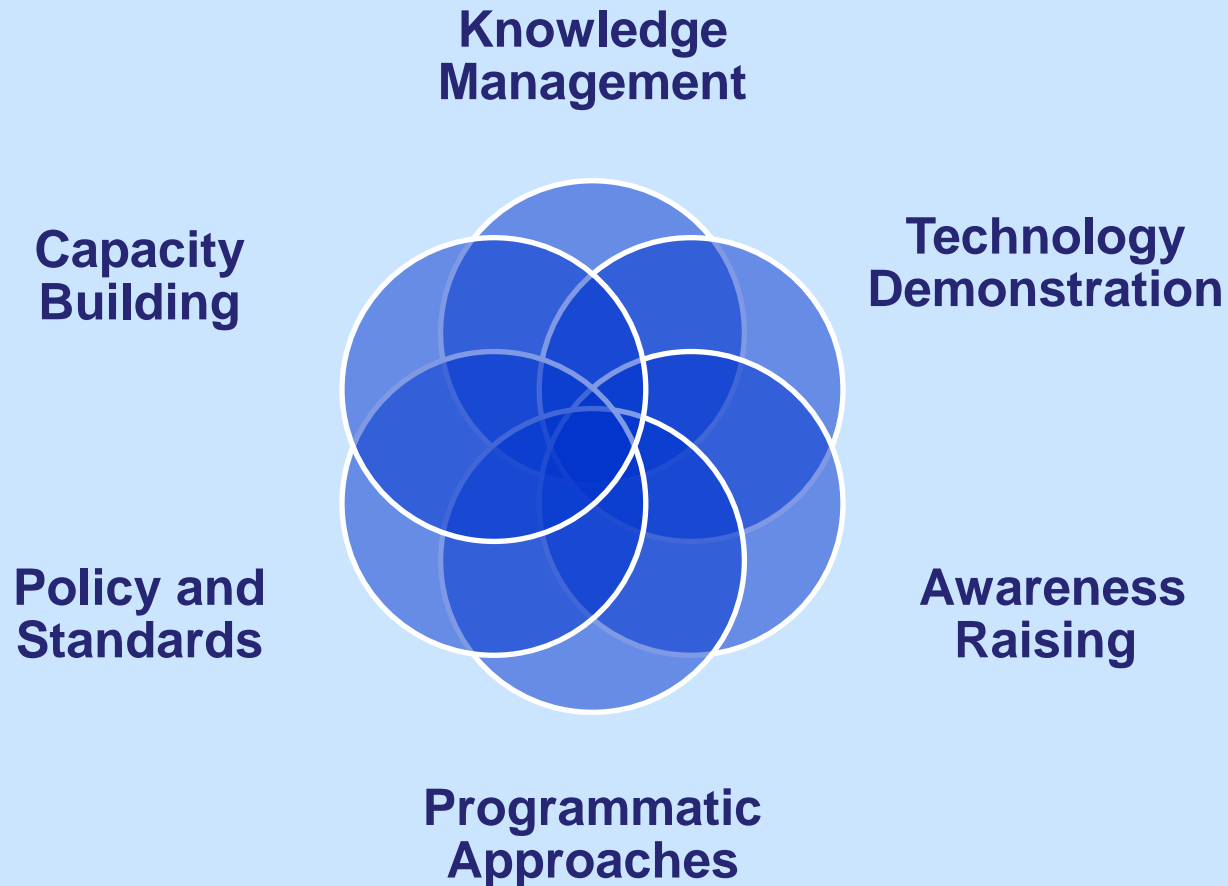
- **Industrial Energy Efficiency**
- **Renewable Energy for Productive Uses and Industrial Applications**
- **Low Carbon Low Emission Technologies**





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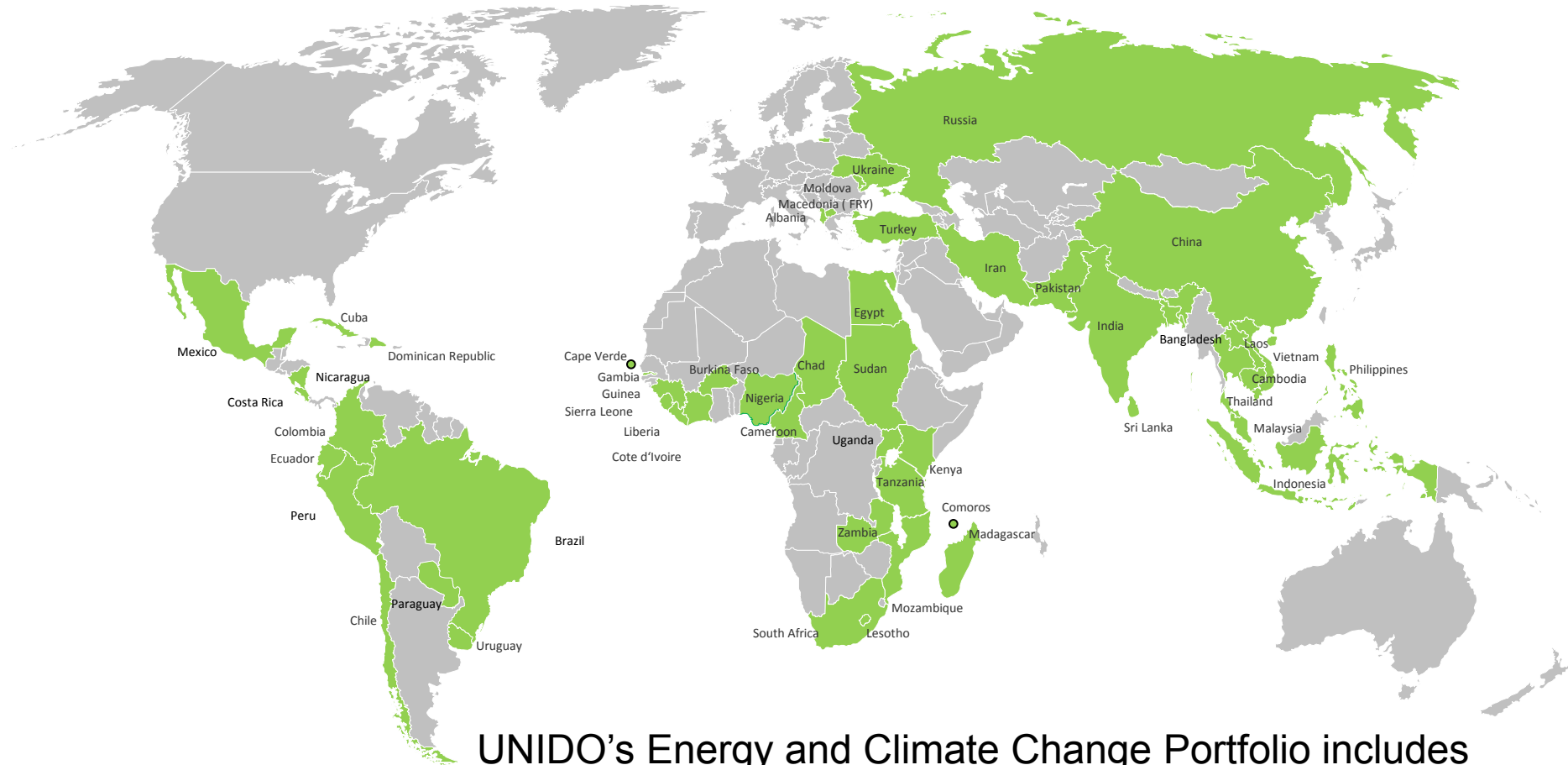
# UNIDO's Energy Strategy: Building Blocks





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# ECC Footprint

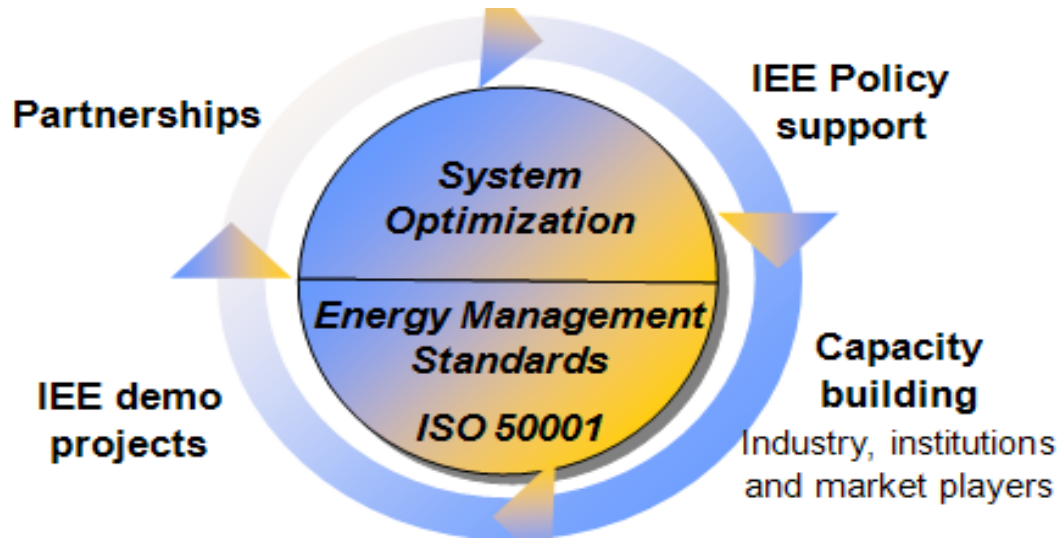


UNIDO's Energy and Climate Change Portfolio includes more than 50 Countries



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# UNIDO's Energy Efficiency Activities



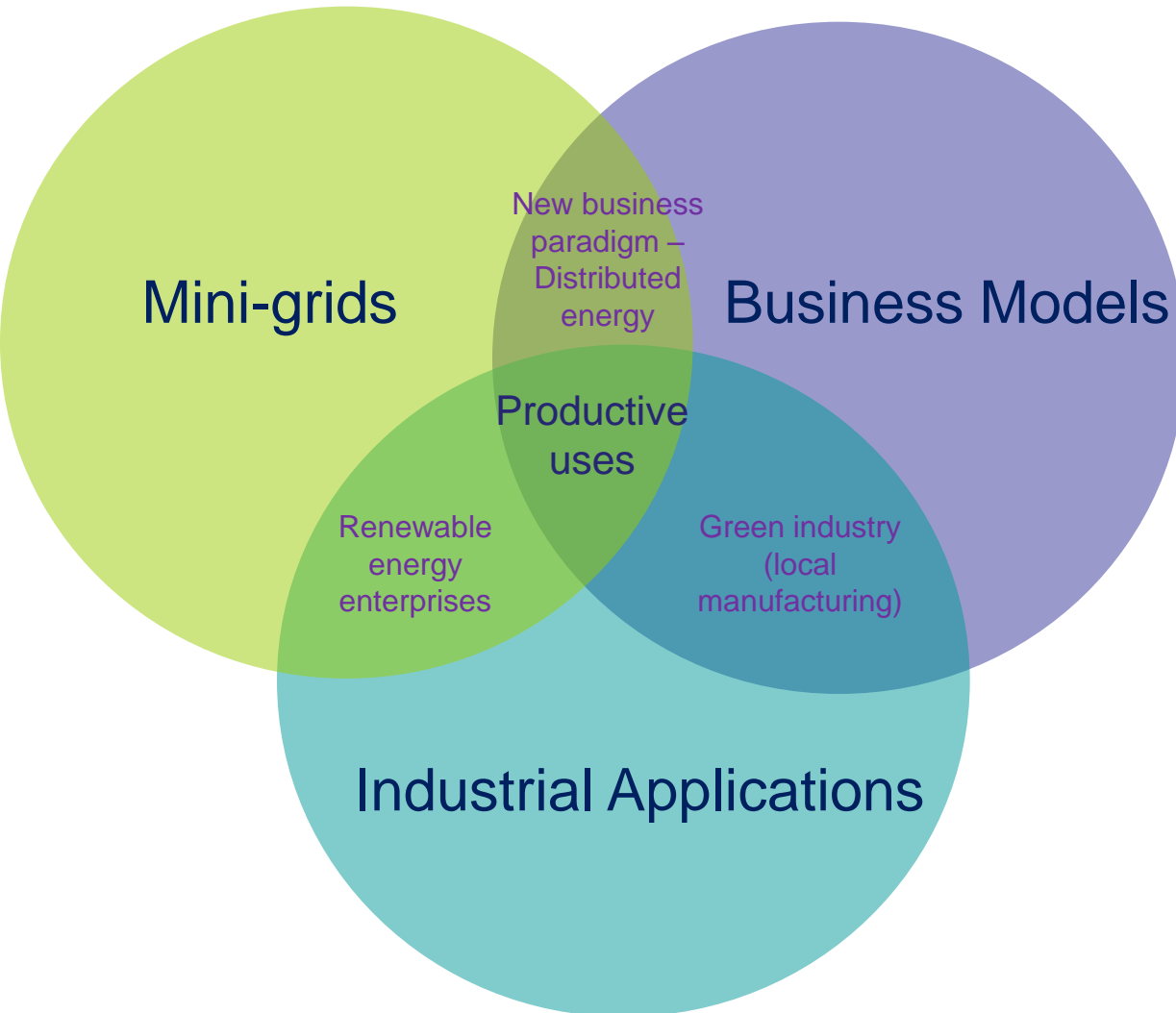
## Industrial Development Report 2011

Industrial energy efficiency  
for sustainable wealth creation

Capturing environmental, economic and social dividends



The testing laboratories of the China Special Equipment Inspection and Research Institute (CSEI), Beijing, February 2012



1. Create business development opportunities through increasing access to energy through **mini-grids**;
2. Mainstream the use of renewable energy in **industry** (SMEs);
3. Support innovative **business models** to promote renewable energy in the business sector



# UNIDO's Integrated Energy Solutions

**Energy Management Standards and Systems Optimization**

**Smart RE Grids for Productive Uses (Mini/ Micro)**

**Fostering Technological Innovation for SMEs**

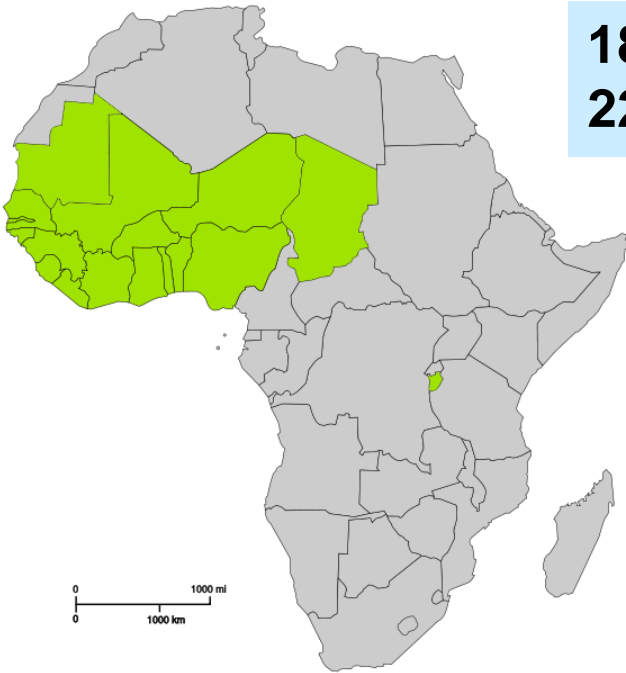
**Regional Knowledge Centers and Hubs**

**Energy Partnerships**



# Programmatic Approach in West Africa: GEF Strategic Programme on Energy in West Africa (SPWA)

**18 Target Countries in West Africa**  
**22 projects in 4 priority areas**



Benin	Guinea Bissau
Burkina Faso	Liberia
Burundi *	Mali
Cape Verde	Mauritania
Chad *	Niger
Côte d'Ivoire	Nigeria
The Gambia	Senegal
Ghana	Sierra Leone
Guinea	Togo

**GEF Grant : \$ 50 MILLION**

**Co-Funding: \$ 535 MILLION**







## Global Clean Energy Technology Innovation Programme for SMEs

GEF-UNIDO Global Cleantech Programme for SMEs is a unique opportunity for fostering innovation of cleantech products and strengthening the entrepreneurial ecosystem in emerging economies and developing countries.

### GEF UNIDO Cleantech Global Portfolio (\$ 15 Million + Co-financing)

#### Phase 1

- India
- Malaysia
- Armenia

#### Phase 2

- Turkey
- Pakistan
- South Africa

#### Phase 3

- Nigeria
- Brazil
- Thailand
- Russia





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# UNIDO's Global Network of Regional Sustainable Energy Centers

## Programmatic Approach to promote Renewable Energy and Energy Efficiency: A global solution at a regional level



**ECOWAS Regional Centre for Renewable Energy and Energy Efficiency (ECREEE) ECREEE setup in 2010**



**2 New Regional Centers in Africa-Southern African Development Community (SADC) and the East African Community (EAC)**



**AOSIS requested through SIDS DOCK to support the establishment of regional centers in the Caribbean, Pacific, Indian Ocean and Africa**



**Austrian Development Cooperation**

REPUBLIC OF AUSTRIA  
Federal Ministry for  
European and International Affairs



SPC  
Secretariat of the Pacific Community





## Observatory for Renewable Energy in Latin America and the Caribbean

- Tool to promote renewable energy – in particular for productive uses and industrial applications
- In total 20 countries in LAC endorsed the programme; activities already initiated in 8 of them
- Relies on a powerful knowledge platform

The main goals are:

- Increasing access to the existing know-how
- Promoting the strengthening of member countries' renewable energy generating capacity and ability to attract investments



Opening session of the Iberoamerican Ministerial Meeting, held in 2006 in Montevideo, Uruguay



- Partnership between UNIDO, ECREEE, Columbia University and UNICV in Cape Verde on a Fellowship for Sustainable Energy Solutions
- Business Partnership between UNIDO, ECREEE and Philips on the installation of 15 PV lighting systems in Cape Verde
- Partnership between UNIDO and Schneider Electric on potential to enhance the productivity of rural African micro-industries and businesses through a clean, innovative and standardized micro-power plant
- Partnership between UNIDO and Public Sector Undertakings (PSUs) to assist in CSR initiatives for promoting sustainable development through RE and EE technologies.
- UNIDO has signed a MOC with 5 partner institutions to facilitate project design and implementation.
  - TERI: The Energy and Resources Institute
  - IIASA: International Institute for Applied Systems Analysis
  - ECREEE: ECOWAS Regional Centre for Renewable Energy and Energy Efficiency
  - REEEP: Renewable Energy and Energy Efficiency Partnership
  - AEA: Austrian Energy Agency





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**THANK YOU**

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