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GEF Support to Scaling Up Renewable Energy

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GEF scaling up models for Renewable Energy (RE)

1. Removing policy, regulatory and technical barriers.
2. Developing innovative market-based mechanisms and financial instruments.
3. Demonstrating pre-commercial RE technologies.



GEF Support on Renewable Energy

- GEF has invested US\$1.3 billion.
- 160 Countries, leveraging US\$10 billion in co-financing.
- Installation of 6 GW of power generation capacity.
- GHG emission reductions of 1.8 billion tCO₂e.



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GEF-6 CCM Strategy

Goal: To support developing countries to make transformational shifts towards low emission, resilient development path

Objective 1: Promote innovation & technology transfer

Objective 2: Demonstrate systemic impacts of mitigation options

Objective 3: Foster enabling conditions to mainstream mitigation concerns into SD strategies

1. Low carbon technologies and mitigation options

3. Integrated low-carbon, urban systems

5. Convention obligations for planning and mitigation contributions

2. Innovative policy packages and market initiatives

4. Forests and other land use, and climate smart agriculture

GEF Support on RE during Fiscal Year (FY) 2015

- 5 stand-alone renewable projects
- Total GEF Grant: \$ 39.9 million
- Total Co-financing: \$ 606.3 million
- Impact: GHG emission reductions of 21.1 million tCO₂e



FY 2015 RE Examples

- **Upgrading of China Small Hydro Power Capacity Project**
 - Grant: \$ 10.0 million, Co-financing: \$ 60.0 million
 - GEF agency: UNIDO
 - Expected Impact: 6,455 tCO₂e avoided
- **Reducing Argentina's Greenhouse Gas Emissions from the Energy Sector through the Utilization of Organic Waste for Energy Generation in Agriculture and Agro Industries**
 - Grant: \$ 6.7 million, Co-financing: \$ 27.1 million
 - GEF agency: UNIDO
 - Expected Impact: 2.35 million tCO₂e avoided
- **(Cook Islands) Renewable Energy Sector Project**
 - Grant: \$ 4.7 million, Co-financing: \$ 24.3 million
 - GEF agency:
 - 366,246 tCO₂e avoided



FY 2015 RE Projects

- **(South Africa) Equity Fund for the Small Projects Independent Power Producer Procurement Programme (non-grant)**
 - Grant: \$ 16.6 million, Co-financing: \$ 190.5 million
 - GEF agency: Development Bank of Southern Africa (DBSA)
 - Expected Impact: 5 million tCO₂e avoided
- **The Ten Island Challenge: Derisking the Transition of the Caribbean from Fossil Fuels to Renewables**
 - Grant: \$ 2.0 million, Co-financing: \$ 2.0 million
 - GEF agency: UNDP
 - Expected Impact: 13.4 million tCO₂e avoided



RE within Integrated low-carbon, urban systems - GEF 6

1. Low-emission urban systems

Project examples:

- Distributed urban energy resources.
- Energy recovery from municipal waste.

2. Sustainable Cities IAP

- Demonstrate innovative models of sustainable urban management through integrated urban policy and strategy support and piloting of high impact options.
- Foster replication through partnership and sharing of lessons learned.



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Sustainable Cities IAP Projects

Mexico: La Paz, Campeche, Xalapa
Co-Financing: \$110,000,000
GEF Funding: \$ 15,000,000

Senegal: Dakar
Co-Financing: \$51,380,000
GEF Funding: \$ 9,500,000

Peru: Lima
Co-Financing: \$133,300,000
GEF Funding: \$ 7,500,000

Paraguay: Gran Asuncion
Co-Financing: \$240,340,000
GEF Funding: \$ 8,250,445

Brazil: Brasilia, Recife
Co-Financing: \$193,000,000
GEF Funding: \$ 24,673,000

India: Vijayawada-Guntur,
Mysore, Jaipur, Bhopal
Co-Financing: TBD
GEF Funding: \$ 13,500,000

Côte d'Ivoire: Abidjan
Co-Financing: \$21,300,000
GEF Funding: \$ 5,727,500

China: Guiyang, Shenzhen, Ningbo,
Nanchang, Beijing, Tianjin, Shijiazhuang
Co-Financing: \$411,000,000
GEF Funding: \$ 36,000,000

Vietnam: Hue
Co-Financing: \$175,000,000
GEF Funding: \$ 9,000,000

Malaysia: Melaka
Co-Financing: \$18,000,000
GEF Funding: \$ 3,000,000

South Africa: Johannesburg
Co-Financing: \$119,927,433
GEF Funding: \$ 9,000,000



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Thank You!



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