



## ACCELERATING ACCESS TO CLIMATE TECHNOLOGIES IN SOUTH AFRICA

### CLIMATE TECHNOLOGY CENTRE AND NETWORK

The Climate Technology Centre and Network (CTCN) promotes accelerated, diversified and scaled-up transfer of environmentally sound technologies for climate change mitigation and adaptation, in developing countries, in line with their sustainable development priorities. Climate technologies cover any piece of equipment, technique, practical knowledge or skills for performing a particular activity that can be used to face climate change.

Through its 11 regional partners and network of climate change and technology experts, the CTCN provides customized technology solutions, capacity building, and connects stakeholders with the information, service providers and funding sources they need.

*CTCN Mission: To accelerate technology cooperation and enhance the development and transfer of technologies tailored to developing country requests*

### CTCN CORE SERVICES

The CTCN provides the following core services –

- Technical assistance in identifying innovative climate technology solutions and capacity building options
- Access to an online climate technology system with information on climate technologies and how they are being used in various countries
- Regional and international networking opportunities at CTCN climate technology events and conferences

CTCN services are available to:

- Academic institutions
- Government agencies
- Non-profit organizations
- Private sector (small- and medium- size businesses, manufacturers, utilities)

### APPLYING TO THE CTCN

Contact your CTCN National Designated Entity (NDE) to discuss your technology needs (*See brochure NDE contact details*).

Your NDE can help you draft a request and submit it for review to the CTCN Secretariat. If the request is eligible for CTCN assistance, you will collaborate with experts who will help to identify potential solutions and propose an implementation plan.

We can help to support existing programs where there is a technical gap, or build a good basis for creating new initiatives to be further developed and funded.

### CTCN's Innovative Approach

Country driven

No cost technical expertise

- South – South cooperation
- Matching needs with relevant expertise
- Technology sharing and promotion
- Flexible and evolving with new technologies

### WHAT DOES THE CTCN FUND

The CTCN does not provide funding but provides in-kind technical assistance in the range of \$50,000 - \$250,000 USD.

Technical assistance covers a wide range of support such as:

- Capacity building
- Technical support and advice in identifying technology needs
- Technical assistance in implementing environmentally sound technologies
- Technology cooperation
- Catalyzing private and public investment
- Disseminating best practices in technology transfer

### NETWORK OPPORTUNITIES

You can benefit from CTCN networking opportunities by participating in climate technology conferences and events. Participation in the CTCN Network can help you to develop partnerships with development agencies, funding sources, technology suppliers, from other countries that have similar interests.

## NETWORK OPPORTUNITIES CONT...

In addition, members can suggest specific events to organize jointly with the CTCN on a topic of sectorial, regional or global interest.



## CLIMATE TECHNOLOGIES

What are climate technologies?

Climate technologies are any equipment, technique, practical knowledge or skills needed to either create cleaner energy (mitigation technology) or to adapt to changing climate patterns (adaptation technology). Climate technologies also cover cross-cutting topics, such as integrating policies, national innovation systems, technology needs assessment and planning, financing and investment, collaboration with the private sector, and intellectual property management.

### Mitigation technologies

Climate technologies can be used to tackle the causes of climate change by reducing greenhouse gas emissions and utilizing cleaner, often more efficient energies. These technologies can strengthen various sectors such as energy, transport, manufacturing, construction, forestry, waste, etc. Through such activities as improving energy supply and distribution; shifting from fossil fuels to renewable heat and power; recycling industry material; and reducing deforestation. Examples of mitigation requests to the CTCN include:

- Market assessment for introduction of electric heat pump technology in the dairy industry
- Feasibility study to assess the possibilities of manufacturing of biomass gasifiers
- Capacity building in low-carbon development technology for cattle farming in semi-arid regions
- Feasibility study for implementing community pilot project on improving efficiency of electric utility in selected state

### Adaptation technologies

Climate technologies can also be implemented to both prevent damage and take advantage of opportunities caused by changing climates. Adaptation technologies can strengthen such sectors as agriculture, biodiversity, city planning, coastal protection, health, water supply, etc. Through such efforts as adoption of water storage and conservation techniques, erosion control and soil protection, creation of wetlands as buffer against sea level rise and flooding, emergency and infectious disease services. Examples of adaptation technology requests to the CTCN include:

- Developing a seasonal climate prediction system for effective water management

- Developing a strategy for crop research and joint research with institutions in developing countries
- Mainstreaming climate change considerations in watershed management planning and monitoring
- Water-resource adaptation strategy to leverage and facilitate strategic investment in water resource management

### NDE Contact Details:

The South African National Designated Entity (NDE) can be contacted at –

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The Climate Technology Centre & Network is a consortium led by the United Nations Environment Programme (UNEP) together with the United Nations Industrial Development Organization (UNIDO). The consortium is supported by 11 regional partner organizations, including the South African *Council for Scientific and Industrial Research (CSIR)*, creating a pool of climate technology experts. The CTCN's unique structure enables the transfer of a wide variety of climate technologies across both sectors and regions.

### CTCN Secretariat

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