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# Trinidad and Tobago's NDC Implementation Plan

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Integrated Governance, Finance and Transparency for Delivering Climate Goals

# Country Overview

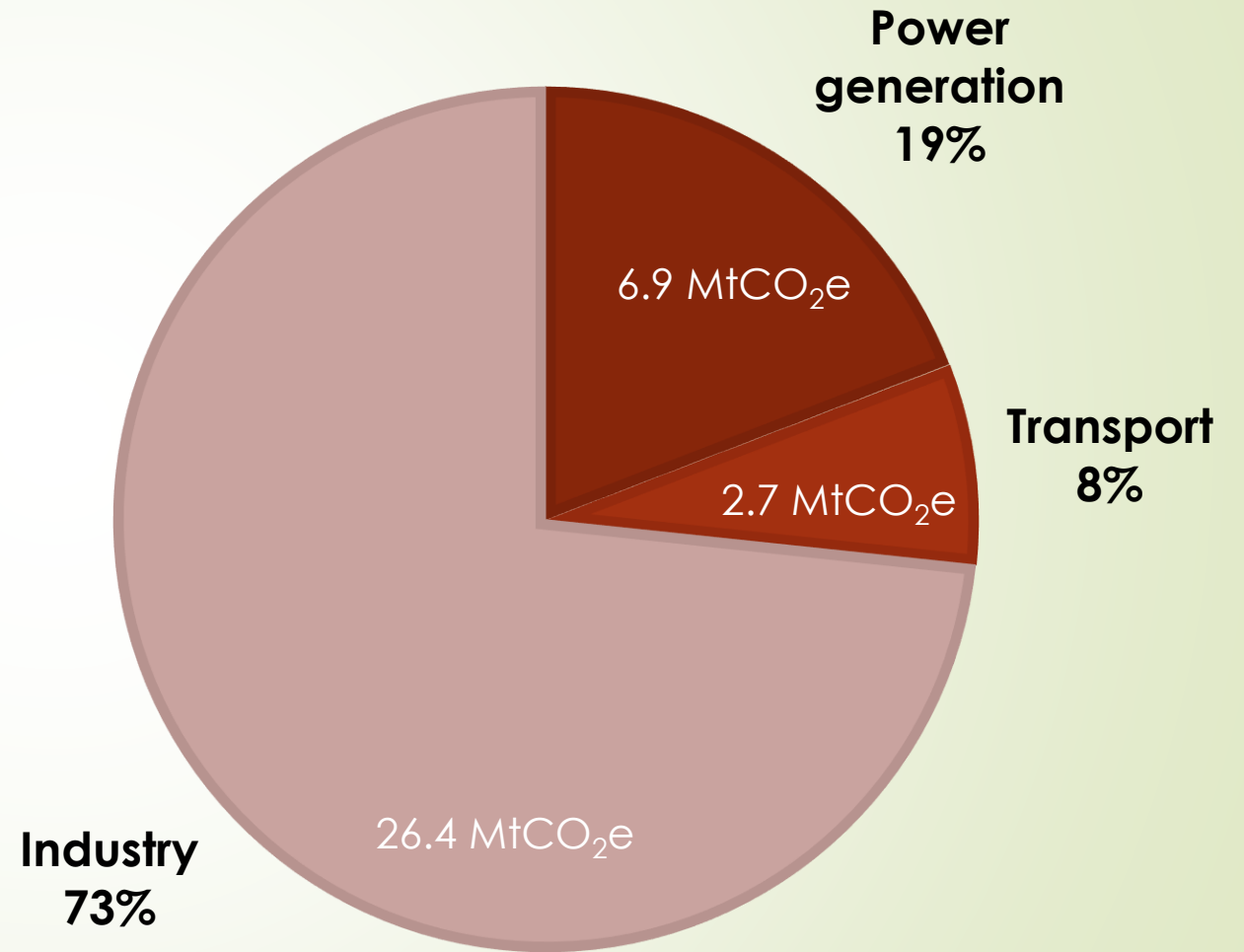
## Overview

- Caribbean Small Island Developing State (SIDS)
- Population: 1.4 million
- Main economic activity: energy and petrochemical industries (40% of Gross Domestic Product)
- Vulnerability to climate change:
  - Temperature increases
  - Changes in precipitation
  - Sea level rise
  - Increased flooding
  - Increased frequency and intensity of tropical storms
  - Loss of coastal habitats and hillside erosion
- Greenhouse Gas (GHG) Emissions:
  - Less than 1% of absolute global GHG emissions
  - Main emitting sectors: power generation, transport and industry



# GHG Emissions by Sector (2012)

## Overview



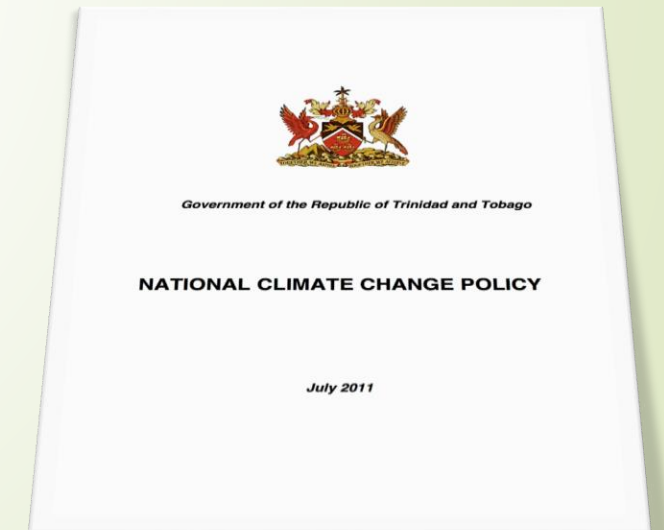
Source: Carbon Reduction Strategy, 2015

# Main Climate Change Initiatives

NCCP

## ► **National Climate Change Policy (NCCP, 2011)**

- Provides policy guidance for the development of an appropriate administrative and legislative framework for the pursuance of a low carbon development path
- Broad objectives and strategies for climate change mitigation including renewable energy (RE), clean technologies, and research and development



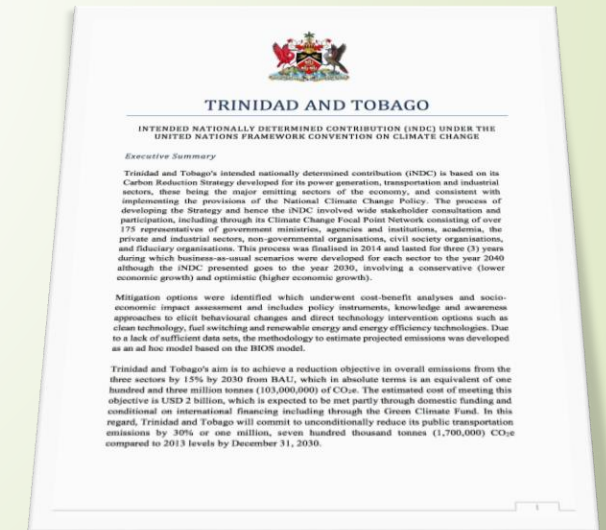
# Main Climate Change Initiatives

- ▶ National Climate Change Policy (NCCP, 2011)
- ▶ **Carbon Reduction Strategy (CRS, 2015)**
  - ▶ Includes historical CO<sub>2</sub> emissions and defines Business as Usual (BAU)
  - ▶ Proposes climate change **mitigation measures** for the power generation, transport and industry sectors:
    - ▶ Multidisciplinary strategic axes: knowledge, action, awareness and policy
    - ▶ Estimates for: Emissions Avoided and Cost-Benefit Analyses
  - ▶ Forms the basis of Trinidad and Tobago's Nationally Determined Contribution (NDC)



# Main Climate Change Initiatives

- ▶ National Climate Change Policy (NCCP, 2011)
- ▶ Carbon Reduction Strategy (CRS, 2015)
- ▶ **Nationally Determined Contribution (NDC, 2015)**
  - ▶ Reduction objective in overall cumulative emissions from the three main emitting sectors by 15% by 2030 from Business as Usual (BAU) equivalent to 103 MtCO<sub>2e</sub>
  - ▶ Unconditional reduction in public transportation emissions by 30% or 1.7 MtCO<sub>2e</sub> compared to 2013 levels by December 31, 2030
  - ▶ Estimated cost of implementation is USD \$2 billion which is expected to be met partly through domestic funding and conditional on international climate financing including through the Green Climate Fund



# Main Climate Change Initiatives

- ▶ National Climate Change Policy (NCCP, 2011)
- ▶ Carbon Reduction Strategy (CRS, 2015)
- ▶ Nationally Determined Contribution (NDC, 2015)
- ▶ **Low-Emission Capacity Building (LECB) Programme in Trinidad and Tobago**
  - ▶ Trinidad and Tobago is one of 25 countries and the only SIDS participating
  - ▶ Joint collaboration between the Ministry of Planning and Development and UNDP
  - ▶ Commenced in July 2014
  - ▶ Main objectives:
    - ▶ Development of sectoral Low Carbon Development (LCD) Action Plans and Nationally Appropriate Mitigation Actions (NAMAs)
    - ▶ Design of a National Monitoring, Reporting and Verification (MRV) System
    - ▶ Capacity building in NAMA and MRV development (training workshops)
    - ▶ Development of Trinidad and Tobago's NDC Implementation Plan

# LECB Programme in Trinidad and Tobago

LECB

Activities  
1.1, 1,5

Development of sectoral LCD Action Plans and NAMAs

Activities  
1.2, 1.3

Recommendations for the development/amendment of sectoral policies and legislation

Activity  
1.4

Training program for the identification, formulation and implementation of NAMAs

Activities  
2.1, 2.2

Design of an MRV System and training programme

NDC  
Activity

Development of an NDC Implementation Plan for Trinidad and Tobago



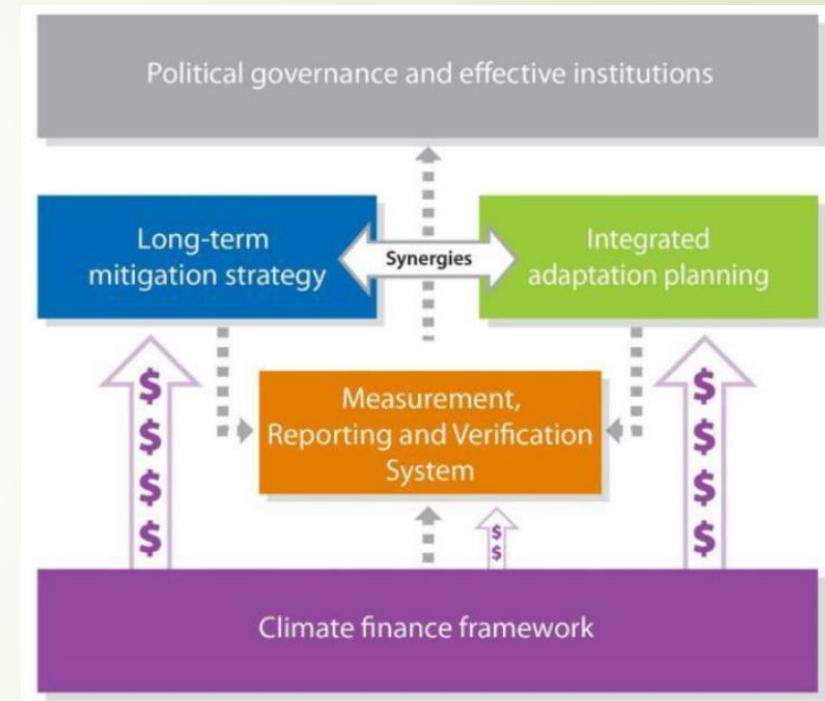


# Developing the NDC Implementation Plan

## Tools

### ► Tools

- NDC Implementation Framework (Ricardo Energy and Environment and the Climate Development Network, 2016)
  - Governance
  - Mitigation
  - Adaptation
  - Finance
  - Monitoring, Reporting and Verification (MRV)
- UNDP Draft Framework (2016)
  - Building national awareness on NDCs
  - Strengthening institutional arrangements
  - Developing and applying concrete mitigation and adaptation measures
  - Developing funding strategies and MRV
  - Planning for future NDC rounds



Source: Ricardo Energy and Environment, 2016

# Developing the NDC Implementation Plan

## Methodology

- ▶ Tools
- ▶ **Methodology**
  - ▶ Desktop Review
  - ▶ Stakeholder Identification
  - ▶ Stakeholder Engagement
    - ▶ Institutional Capacity Assessment Survey
      - ▶ Policy, Knowledge, Partnering and Implementation
    - ▶ Prioritization of Capacity Building Actions Survey
    - ▶ Focus Group Sessions
  - ▶ Data Analysis
    - ▶ Strengths-Weakness-Opportunities-Threats (SWOT) Analysis
    - ▶ Issue Tree Analysis
    - ▶ Rapid Feasibility Assessment (of the NAMAs)

# NDC Implementation Plan

NDC IP



## Recommendations to:

1. Strengthen the institutional capacity for the NDC in the power generation, transport and industry sectors
2. Mainstream climate change issues into the existing policy and legislative framework to create the enabling environment for the implementation of the NDC
3. Define necessary institutional arrangements for implementing the NDC



## Plans for implementing the NDC:

4. Capacity Building Action Plan
5. Sectoral Plans (power generation, transport and industry) that include mitigation actions/activities/projects, their implementation schedule, potential emissions avoided and estimated costs
6. Climate Finance Plan

# NDC Implementation Plan –

1.

## *1. Strengthen Institutional Capacity*

Based on the Institutional Capacity Assessment Survey, the following areas were identified for strengthening institutional capacity:

<b>Implementation Area</b>	<b>Examples of Recommendations</b>
<b>Policy and Legislative Framework</b>	Improve enforcement capacity of relevant laws and policies
<b>Resources</b>	Establish national GHG emissions repository
<b>Coordination and Political Commitment</b>	Formalize a lead agency to coordinate and champion climate change issues and carbon reduction measures
<b>Awareness of climate change issues and carbon reduction measures</b>	Conduct Knowledge, Attitudes and Practices (KAP) study to inform appropriate climate change awareness activities and responses
<b>Knowledge of climate change research and data collection activities</b>	Establish R&D agenda on climate change issues through a consultative process

# NDC Implementation Plan –

## 2. *Mainstream Climate Change Issues*

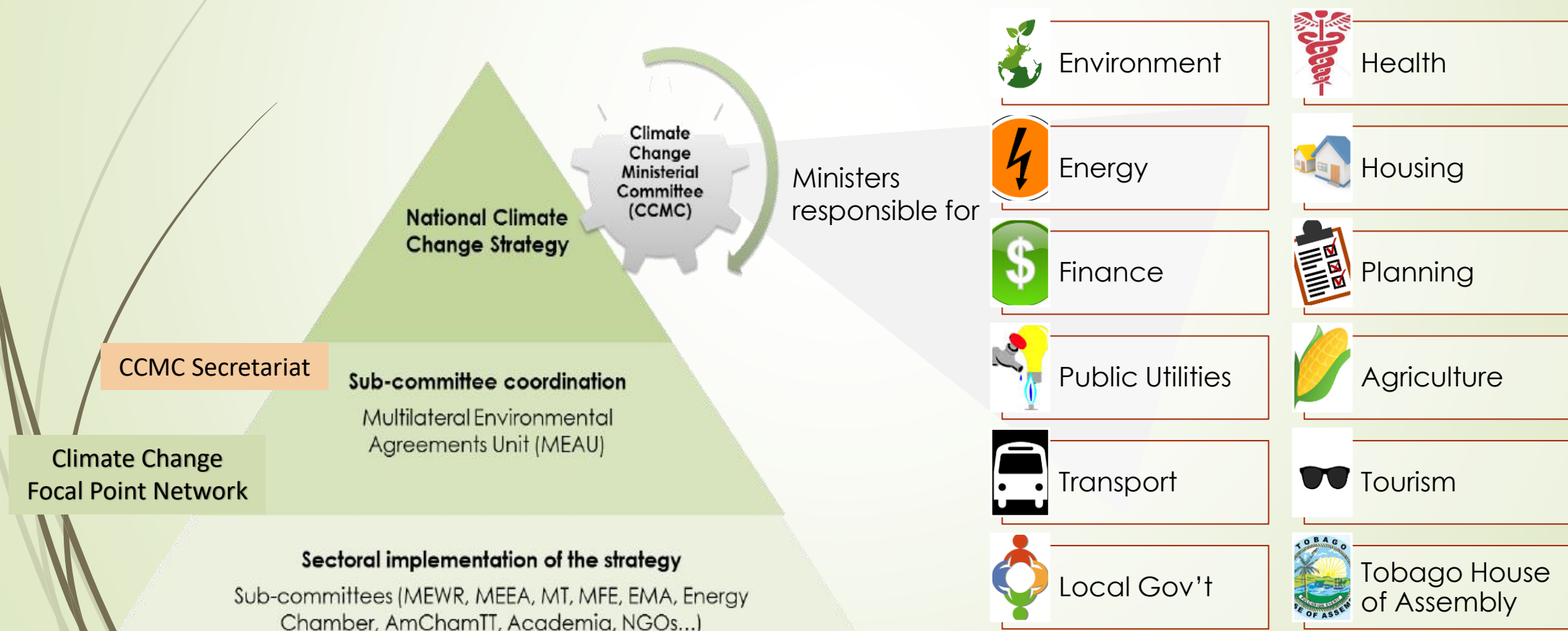
Recommendations for mainstreaming climate change considerations and carbon reduction measures are categorized at the following levels:

Level	Examples of Recommendations for Mainstreaming Climate Change
<b>National</b>	Review and reform the local Green Fund to allow for new funding mechanisms
<b>Sectoral</b>	Develop guidance for integrating climate change issues and carbon reduction strategies in sectoral policies, plans, legislation and projects for stakeholders
<b>Organizational</b>	Embed climate change in organizational structures of Ministries and Agencies
<b>Project</b>	Include climate change considerations in evaluation criteria for assessing project proposals by Government Ministries and Agencies

# NDC Implementation Plan –

## 3. Institutional Arrangements

In alignment with the Carbon Reduction Strategy, the NDC Implementation Plan proposes the following institutional arrangements to facilitate high-level decision making processes for pursuing low carbon development:



# NDC Implementation Plan –

## 3. *Institutional Arrangements*

The roles and responsibilities of the CCMC Secretariat include the following:

- ▶ Management of the Climate Change Focal Point Network that serves as the formal information sharing mechanism for the NDC and climate change issues to stakeholders
- ▶ Coordination with the MEAU on information dissemination activities of the Focal Point Network, particularly on updates on the international climate change negotiations
- ▶ Defining roles and responsibilities and information sharing procedures relevant to the implementation of the NDC
- ▶ Establishing technical sub-committees on climate change issues
- ▶ Coordinating public awareness and sectoral awareness strategies on climate change
- ▶ Monitoring and national reporting on the implementation of carbon reduction measures

# NDC Implementation Plan –

## 4. *Capacity Building Action Plan*

The capacity building plan seeks to strengthen the existing frameworks for carbon reduction measures in Trinidad and Tobago:

Action	Examples of Activities
<b>Set up formal institutional arrangements for the implementation of the NDC</b>	Create a formal technical/policy unit (CCMC Secretariat) to coordinate implementation of the NDC and climate change issues
<b>Increase awareness on climate change</b>	Develop and implement stakeholder awareness programmes on national climate change policy and legislative framework
<b>Build capacity to implement the NDC</b>	Develop and implement sectoral capacity building programme on GHG emissions monitoring and reporting requirements
<b>Promote knowledge and research on climate change</b>	Support research and data collection activities which are aligned to sectoral climate change needs and priorities
<b>Strengthen policy and legislative framework for climate change</b>	Amend and harmonize complementary policies and legislation to implement carbon reduction measures



# NDC Implementation Plan –

## 5. Sectoral Plans

103 MtCO<sub>2</sub>e  
US \$2 billion

5.

Based on the Carbon Reduction Strategy, NAMAs and stakeholder consultations, the following sectoral plans and actions are proposed:

### Power Generation

- Review energy pricing
- Promote energy conservation and efficiency
- Promote RE and alternative energy
- Promote knowledge and awareness
- Feed-in-Tariff
- Integrate into National MRV System

**28.7 MtCO<sub>2</sub>e / US \$945 million**

### Transport

- Create enabling environment
- Improve national public transport system
- Promote vehicle energy efficiency and fuel switching
- Promote alternative fuels in transport sector
- Reduce private vehicle use
- Promote fuel efficiency
- Improve data collection and information sharing systems
- Integrate into National MRV System

**2.6 MtCO<sub>2</sub>e / US \$735 million**

### Industry

- Promote energy conservation and efficiency
- Promote renewable energy and alternative energy
- Establish pilot market mechanism project
- Promote fuel conservation
- Promote knowledge management and awareness
- Integrate into National MRV System

**72 MtCO<sub>2</sub>e / US \$320 million**

# NDC Implementation Plan –

## 6. *Climate Finance Plan*

103 MtCO<sub>2</sub>e  
US \$2 billion

6.

### Climate Finance Plan

- Set up institutional arrangements for financing the NDC
- Identify funding gaps and needs
- Assess public and private financing options
- Develop sectoral climate finance plans
- Assess direct access requirements to international climate funds
- Develop project pipeline and funding proposals
- Increase private sector engagement and investment
- Integrate into National MRV System

### Potential Sources of Funding

- The Green Fund
- Public Sector Investment Programme (PSIP)
- International NAMA Facility
- Clean Development Mechanism (CDM)
- Global Environmental Facility (GEF)
- Global Environmental Facility Small Grants Programme (GEF SGP)
- International Finance Corporation (IFC)
- Green Climate Fund (GCF)
- Sustainable Energy and Climate Change Initiative
- International Climate Initiative



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