

# NS-242 - Nationally Appropriate Mitigation Actions in the Construction Sector in Mongolia

## Mongolia

### NAMA Seeking Support for Preparation

#### A Overview

A.1 Party

Mongolia

A.2 Title of Mitigation Action

Nationally Appropriate Mitigation Actions in the Construction Sector in Mongolia

A.3 Description of mitigation action

The objective of the project is to facilitate market transformation for energy efficiency in the construction sector through the development and implementation of NAMA in Mongolia. This objective will be achieved by removing barriers to increased adoption of energy efficiency technology in construction sector through three components; i) establishment of baseline energy consumption and GHG emission in the construction sector ii) development and implementation of NAMA in the construction sector iii) measuring, reporting and verification (MRV) system for NAMA. This project will be implemented over a 40 months period and is expected to achieve GHG emission reductions through the displacement of electricity heat generation from coal power plants and CHPs. Direct GHG emission reduction over the lifetime of the project is estimated to be 64,219 tCO<sub>2</sub>e. The estimated range of potential indirect emission reduction is 57,435 to 438,926 tCO<sub>2</sub>e that is cumulative for a 10-year period after the end of the project.

The NAMA in the construction sector will greatly benefit Mongolia which is one of the countries in major transition. The rapid economic expansion often put the monetary benefit on priority and put a heavy toll on environmental impact of the country. Air pollution in Ulaanbaatar is increasing at the alarming rate and threatens to the health and welfare of the population. Mongolia will have benefits from GHG emission reduction as the construction sector is one of the major GHG emission contributors. The results of this project will help Mongolia progress towards the implementation of Green Development Policy and Sustainable Development Goals.

The total cost of the NAMA is estimated at around US\$ \$8,169,863. This includes support to cover the investment costs of the technical intervention as well as extensive capacity-building efforts. In total, the Government of Mongolia is committed to providing \$3,350,000; GEF support is \$1,269,863 and \$3,450,000 from the private sector.

Implementation of the NAMA will be led by the Ministry of Construction and Urban Development, Government of Mongolia in

close collaboration with the Ministry of Environment; Green Development and Tourism; Ministry of Energy. The Ministry of Environment; Green Development and Tourism is the Focal Point to the UNFCCC.

A.4 Sector

<input checked="" type="checkbox"/> Energy supply	<input type="checkbox"/> Transport and its Infrastructure
<input type="checkbox"/> Residential and Commercial buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Agriculture	<input type="checkbox"/> Forestry
<input type="checkbox"/> Waste management	

Other

A.5 Technology

<input type="checkbox"/> Bioenergy	<input type="checkbox"/> Cleaner fuels
<input checked="" type="checkbox"/> Energy Efficiency	<input type="checkbox"/> Geothermal Energy
<input type="checkbox"/> Hydropower	<input type="checkbox"/> Solar Energy
<input type="checkbox"/> Wind Energy	<input type="checkbox"/> Ocean Energy
<input type="checkbox"/> Carbon Capture and Storage	<input type="checkbox"/> Low till / No till
<input type="checkbox"/> Land fill gas collection	

Other

A.6 Type of action

<input checked="" type="checkbox"/> National/ Sectoral goal	<input type="checkbox"/> Project: Investment in machinery
<input type="checkbox"/> Strategy	<input type="checkbox"/> Project: Investment in infrastructure
<input type="checkbox"/> National/Sectoral policy or program	<input type="checkbox"/> Project : other

Other

A.7 Greenhouse gases covered by the action

<input checked="" type="checkbox"/> CO2	<input type="checkbox"/> CH4
<input type="checkbox"/> N2O	<input type="checkbox"/> HFCs
<input type="checkbox"/> PFCs	<input type="checkbox"/> SF6

Other

### B National Implementing Entity

B.1.0 Name	Ministry of Construction and Urban Development / Ministry of Nature, Green Development & Tourism
B.1.1 Contact Person 1	Saruul Dolgorsuren
B.1.2 Address	un street
B.1.3 Phone	
B.1.4 Email	saruulsh@gamil.com
B.1.5 Contact Person 2	Bunchingiv Bazartseren
B.1.6 Address	
B.1.7 Phone	
B.1.8 Email	bunchingiv.bazartseren@undp.org
B.1.9 Contact Person 3	
B.1.10 Address	
B.1.11 Phone	
B.1.12 Email	
B.1.13 Comments	

### C Expected timeframe for the preparation of the mitigation action

C.1	Number of months for completion
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D Currency

D.1 Used Currency

AED

Conversion to USD: 1

E Cost

E.1.1 Estimated full cost of preparation

109500

E.1.2 Comments on full cost of preparation

The full costs of preparation include the required technical support and stakeholder consultation meetings.

F Support required to prepare the mitigation action

F.1.1 Amount of Financial support

109500

F.1.2 Type of required Financial support

- Grant
  Loan (sovereign)
  Loan (Private)
  Concessional loan
  Guarantee
  Equity
  Carbon finance
- Other

F.1.3 Comments on Financial support

Financial Support is required to complete the NAMA Design Document.

F.2.1 Amount of Technical support

F.2.2 Comments on Technical support

The amount on the technical support is included in the estimated full cost of the preparation.

F.3.1 Amount of capacity building support

F.3.2 Type of required capacity building support

- Individual level
  Institutional level
  Systemic level
- Other

F.3.3 Comments on Capacity Building support

Capacity building support is partly included in the costs for preparation of the NAMA Design Document (stakeholder consultation meetings) but in depth capacity building will be required for the implementation of the NAMA.

Capacity Building Support will be necessary for full engagement of the NAMA Implementing Entity during the NAMA preparation and will entail stakeholder consultation meetings to ensure the establishment of a strong institutional dialogue.

Capacity development trainings will be designed and incorporated in the detailed design of the NAMA on aspects ranging from GHG and non GHG data collection, analysis, reference baselines, NAMA evaluation, formulation, implementation, financing, MRV. Both public and private sector decision makers, practitioners, construction sector fraternity, will be trained. Throughout the trainings, special efforts will also be made to encourage equitable representation of men and women personnel as possible. Post training surveys will be designed and executed whereby the survey will also gather information to determine the level of skill sets that trainees have acquired and how they are applying the skills. The survey will also evaluate

the proportion of related jobs held my men and women after the successful completion of the trainings.

- F.4 Financial support required
- F.5 Technological support required
- F.6 Capacity support required

#### G Relevant National Policies strategies, plans and programmes and/or other mitigation action

##### G.1 Relevant National Policies

- State Policy on Energy (Parliament resolution No 63, 2015)
- Energy Conservation (EC) Law (2015)
- Green Development Policy (2014)
- Second National Communication to the UNFCCC (2010)
- National Action Program on Climate Change (2011 -2021)
- Technology Needs Assessment (2013)
- Government Action Plan (2012-2016)

##### G.2 Link to other NAMAs

#### H Attachments

H Attachments

**Title Description**

H.1 Attachment description

H.2 File

Browse...

#### I Support received

I.1 Outside the Registry

- Support provided: Technical support by GEF/UNDP Mongolia
- Support Type: NAMA preparation
- Amount: USD109,500

I.2 Within the Registry

**Support provided SupportType Amount Comment Date**