

# NS-170 - Low Emission Schools

## Mexico

### NAMA Seeking Support for Implementation

#### A Overview

A.1 Party

Mexico

A.2 Title of Mitigation Action

Low Emission Schools

A.3 Description of mitigation action

The Low Emission Schools Programme aims to empower students to effectively influence their communities on climate change and sustainability, while reducing CO<sub>2</sub> emissions within the school.

Its objective is to promote sustainable practices resulting in GHG emission reductions in the action lines of energy, waste, transport, water, goods consumption and green areas. Some of the benefits are the empowerment of young students and the educational community to be part of a climate change strategy, the generate o economic saving for schools and the strengthening of local dynamics surrounding social awareness and innovation on the challenge of climate change adaptation.

Furthermore, as a Nationally Appropriate Mitigation Action for schools in Mexico it aims to:

- Keep track of GHG emissions in schools
- Strengthen existing Mexican environmental education programs
- Foster a comprehensive approach on climate change and adaptation in schools and educational communities
- Transform students into climate change agents in their local communities

This programme is carried out through actions led by the educational community. These activities are registered on a platform that serves as an interactive portal for environmental education and linkage to participating schools, key government actor, civil society and private sector.

A.4 Sector

<input type="checkbox"/> Energy supply	<input type="checkbox"/> Transport and its Infrastructure
<input checked="" 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

A.6 Type of action	<input type="checkbox"/> Hydropower <input type="checkbox"/> Wind energy <input type="checkbox"/> Carbon Capture and Storage <input type="checkbox"/> Land fill gas collection <input type="checkbox"/> Other <input type="text"/>	<input type="checkbox"/> Solar energy <input type="checkbox"/> Ocean energy <input type="checkbox"/> Low till / No till
	<input checked="" type="checkbox"/> National/ Sectoral goal <input checked="" type="checkbox"/> Strategy <input checked="" type="checkbox"/> National/Sectoral policy or program <input type="checkbox"/> Other <input type="text"/>	<input type="checkbox"/> Project: Investment in machinery <input type="checkbox"/> Project: Investment in infrastructure <input checked="" type="checkbox"/> Project: Other
A.7 Greenhouse gases covered by the action	<input checked="" type="checkbox"/> CO2 <input type="checkbox"/> N2O <input type="checkbox"/> PFCs <input type="checkbox"/> Other <input type="text"/>	<input type="checkbox"/> CH4 <input type="checkbox"/> HFCs <input type="checkbox"/> SF6

### B National Implementing Entity

B.1.0 Name	General Directorate of Climate Change Policy, Secretary of Environment and Natural Resources (SEMARNAT)
B.1.1 Contact Person 1	Beatriz Bugada Bernal
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B.1.5 Contact Person 2	
B.1.6 Address	
B.1.7 Phone	
B.1.8 Email	
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 implementation of the mitigation action

C.1	Number of years for completion	5
C.2	Expected start year of implementation	2014

### D Currency

D.1	Used Currency	<input type="text" value="AED"/> Conversion to USD: 1
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### E Cost

E.1.1	Estimated full cost of implementation	14000000
E.1.2	Comments on full cost of implementation	Comments on full cost: The aforementioned budget is required to ensure the expansion of the Programme at a subnational level to reach at least 2,400 schools by 2018. Thus, achieving around 11,880 tCO <sub>2</sub> /year. The actions to be undertaken are: <ul style="list-style-type: none"> <li>• Pilot platform and governance improvements</li> </ul>

- Create financial strategy to ensure the project sustainability on state level and promote private fund inclusion

E.2.1 Estimated incremental cost of implementation 3500

E.2.2 Comments on estimated incremental cost of implementation

In 2018, it is expected for the NAMA to be in full operation in at least 15 Mexican states and serving around 2,400 schools.

An increased implementing cost is expected in order to ensure active monitoring and overseeing of the project and to assess school projects through the online platform and implementing entities.

The amount includes the state and federal level coordination, program promotion and dissemination.

### F Support required for the implementation the mitigation action

F.1.1 Amount of Financial support

14000000

F.1.2 Type of required Financial support

<input checked="" type="checkbox"/> Grant	<input type="checkbox"/> Guarantee
<input type="checkbox"/> Loan (sovereign)	<input type="checkbox"/> Equity
<input type="checkbox"/> Loan (Private)	<input type="checkbox"/> Carbon finance
<input type="checkbox"/> Concessional loan	
<input type="checkbox"/> Other <input type="text"/>	

F.1.3 Comments on Financial support

The financial support will be spent to develop the following activities:

- GHG inventory for the education sector
- Identification of key sector needs and categorisation
- Quantification of co-benefits
- Generation of information to influence public policy
- Implement the project in 2,400 schools

F.2.1 Amount of Technological support

F.2.2 Comments on Technological support

F.3.1 Amount of capacity building support

F.3.2 Type of required capacity building support

<input type="checkbox"/> Individual level
<input checked="" type="checkbox"/> Institutional level
<input type="checkbox"/> Systemic level
<input type="checkbox"/> Other <input type="text"/>

F.3.3 Comments on Capacity Building support

The whole purpose of the Low Emission Schools NAMA is to teach students how to contribute to mitigate climate change. Some of the activities developed are:

- Sensitization campaigns on climate change
- GHG emission baseline generation and tracking with the calculator tool
- Action plan for emission reduction measures
- Backup of evidence
- Environmental management processes adoption
- Information sharing between schools and project community

To deliver these actions is required a strong coordination scheme from the federal level to the target group, and ensure a continuous capacity development of the following stakeholders:

- A national steering committee: provides guidelines and monitor overall performance
- Subnational committees: generate annual operational plans in their region;
- Developers: promote the implementation of the NAMA at different levels
- Implementers: deliver, accompany and track the programme at schools
- Schools: recipient group

F.4 Financial support for implementation required

F.5 Technological support for implementation required

F.6 Capacity Building support for implementation required

#### G Estimated emission reductions

G.1 Amount

0.06

G.2 Unit

MtCO<sub>2</sub>e/yr

G.3 Additional information (e.g. if available, information on the methodological approach followed)

All the implemented actions are reported and tracked on the [www.ganalealco2.com](http://www.ganalealco2.com). This internet platform serves not only as a sustainable and cost-efficient MRV-system but also as an interactive portal for environmental education. On this website the CO<sub>2</sub> emission-calculator-tool allows for stable monitoring and evaluation. The tool allows students to get to know the greenhouse gas (GHG) emission baseline of their school and track the changes. Furthermore, schools share their results, experiences and best practices, thus empowering more students and improving methodologies continuously. After a review by the NGO, an annual reports is sent to the Ministry of Environment.

A pilot project was implemented in 2013 and 2014. 36 schools from 5 Mexican states developed their GHG emission baseline and some mitigation school level projects. The integrated baseline was 3000 tCO<sub>2</sub> and the estimated reduction potential was 600 tCO<sub>2</sub>. In average a school can account between 10 to 25 tons CO<sub>2</sub>eq/year.

The expansion of the project will allow reaching at least 2,400 schools by 2018, reducing around 0.06 MTCO<sub>2</sub>e/yr in this period.

#### H Other indicators

H.1 Other indicators of implementation

- Number of participating schools.

- Number of projects developed by children.
- Number of people from educational community directly and indirectly impacted
- Changes in school plans, local climate change plans or federal programs.
- Economic savings for schools due to measures implemented

#### I Other relevant information

##### I.1 Other relevant information including co-benefits for local sustainable development

- Visibility and dissemination of the project at a national level a direct support to accomplish goals of climate change and education in Mexico.
- Investment in tangible, visible and sustainable actions benefiting communities directly and providing transparent GHG emission reductions.
- Empowerment of student and offer access to a national action platform against climate change.
- Positioning the funding partner on issues of responsive government, civic innovation, open government and empowerment of student community.

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

##### J.1 Relevant National Policies

The Low Emissions School NAMA is supported by sub-national climate change policies and national climate change laws: It has been successfully integrated in:

- The Special Programme for Climate Change 2013-2018 (PECC) that serves as the main policy instrument derived from the General Climate Change Law and identifies opportunities to reduce emissions by 2018 across all governmental sectors. It has been included at the 3.6 strategy that stands “To Promote the development of National Appropriate Mitigation Action (NAMA)” and it is mentioned in the 3.6.7 “To promote the implementation of School NAMA”; the full document is available at the Official Gazette of the Federation: [http://dof.gob.mx/nota\\_detalle\\_popup.php?codigo=5342492](http://dof.gob.mx/nota_detalle_popup.php?codigo=5342492)
- Low Emission Schools NAMA is also included in the Programa de Acción Climática de la Ciudad de México 2014-2020 in the strategic axis of Education and Communication. The full document is available in: <http://www.sedema.df.gob.mx/sedema/images/archivos/temas-ambientales/cambioclimatico/PACCM-2014-2020completo.pdf>

##### J.2 Link to other NAMAs

#### K Attachments

##### K Attachments

Title	Description
141021 Low emission schools NAMA ENG.pdf	

brochure NAMA Escuelas  
Bajas en Emisiones.pdf

Financial: BMZ: €210 K Apr  
2013- Oct 2014 Foreign &  
Commonwealth Office (FCO)  
UK: €107 K Apr 2013- Oct 2014  
German Minister for Foreign  
Affairs: €75 K Jun 2014 – Dec  
2014 Technical & capacity  
building: GIZ Local subsidy:  
NGO PIDES for piloting phase  
Apr 2013 - Oct 2014

v-nama\_ -

\_case\_study\_mexico\_2014.pdf

K.1 Attachment description

K.2 File

Browse...

### L Support received

L.1 Outside the Registry

Financial: BMZ: €210 K Apr 2013- Oct 2014 Foreign &  
Commonwealth Office (FCO) UK: €107 K Apr 2013- Oct 2014  
German Minister for Foreign Affairs: €75 K Jun 2014 – Dec  
2014 Technical & capacity building: GIZ Local subsidy: NGO  
PIDES for piloting phase Apr 2013 - Oct 2014

L.2 Within the Registry

Support provided	SupportType	Amount	Comment	Date
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