

MAINSTREAMING A SUSTAINABLE ENERGY TRANSITION

for public buildings in Mexico City

80% of Mexico's energy comes from fossil fuels. To achieve the goals of the Paris Agreement, Mexico has committed to reduce greenhouse gas (GHG) and short-lived climate pollutant (SLCP) emissions by 25% below business-as-usual by 2030. For the energy efficiency sector, the goal is to promote the use of clean technologies and fuels to achieve 50% clean energy generation by 2050.

Additionally, Mexico's NDCs in the residential and commercial sector aim for an 18% reduction of GHG emissions by 2030.

The main strategies to meet Mexico's NDCs in the field of energy efficiency are to encourage the construction of sustainable buildings and to move towards energy-efficient and low-carbon footprint sustainable cities, as well as to promote the residential use of solar panels and heaters.

Public buildings in Mexico City

The total annual CO₂ emissions in Mexico are 683 million tonnes; 22 million tonnes of these CO₂ emissions are produced in Mexico City. 1.4 million tonnes of CO₂ emissions are due to activities performed by local public administrations. 71.6% of these emissions come from electricity consumption in buildings and facilities. Mexico City's objective is to reduce 10 million tonnes of CO₂ emissions accumulated from 2014 to 2020.



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Panoramic view of Mexico City



FELICITY in a nutshell

"Financing Energy for Low-carbon Investment – Cities Advisory Facility" is an initiative of GIZ and the European Investment Bank (EIB) to support low-carbon infrastructure projects in cities that significantly contribute to sustainable development and climate change mitigation. As a project preparation facilitator, FELICITY offers technical assistance to cities in designing and structuring their infrastructure investment projects.

FELICITY prioritises the interests of cities and incorporates the perspective of international financiers.

The Ministry of the Environment (Secretaría del Medio Ambiente SEDEMA) is actively promoting the use of energy-efficient technologies in public buildings. Currently, there are more than 3,100 government buildings and facilities in the city that could benefit from this energy transition.

The project Sustainable Energy Transition in Public Buildings in Mexico City aims at:

- Promoting energy efficiency and renewable energy.
- Providing 50 public buildings in Mexico City with energy efficient appliances and/or solar water heaters.
- Ensuring monitoring and verification.

FELICITY's support to Mexico City

FELICITY supports SEDEMA in the process of managing the energy transition in public buildings. This entails a more detailed definition of the project, including the description of its scope, a stakeholder analysis, financial projections, a work schedule, as well as operation and maintenance strategies.

Additionally, FELICITY will assist the implementation unit of this project when conducting economic and financial calculations, as well as environmental and social impact assessments.

With the support of FELICITY, two financing options were defined. The first one with an investment of \$239,413,165 MXN and a GHG reduction of 16.9%. The second option proposes an investment of \$450,410,294 MXN and a GHG reduction of 37.3%.

For more information on the project, please consult: [Cambio Climático \(cdmx.gob.mx\)](http://Cambio Climático (cdmx.gob.mx))

For more information on Ciudad Solar, please consult: Ciudad Solar.



Location of Mexico City



Solar water heaters installed on the rooftop of a public building in Mexico City.



GOBIERNO DE LA
CIUDAD DE MÉXICO

SECRETARÍA DEL
MEDIO AMBIENTE

On behalf of:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



of the Federal Republic of Germany

Imprint

Published by:

Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH

Registered offices
Bonn and Eschborn, Germany

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Layout:

creative republic, Frankfurt, Germany

On behalf of

German Federal Ministry for the Environment,
Nature Conservation and Nuclear Safety

GIZ is responsible for the content of this
publication.

This project is part of the International Climate
Initiative (IKI). The Federal Ministry for the
Environment, Nature Conservation and Nuclear
Safety (BMU) supports this initiative on the basis
of a decision adopted by the German Bundestag

Bonn & Luxembourg, March 2021