

# 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 National Determined Contributions (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 CO<sub>2</sub> emissions in Mexico are 683 million tonnes; 22 million tonnes of these CO<sub>2</sub> emissions are produced in Mexico City. 1.4 million tonnes of CO<sub>2</sub> 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 CO<sub>2</sub> emissions by 10% by 2024.



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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 assists the implementation unit of this project in 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 million MXN and a GHG reduction of 16.9 %. The second option proposes an investment of \$450 million 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](http://Ciudad Solar).



Location of Mexico City



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

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