

A stylized, light brown illustration of a plant with several leaves and small, round buds on thin stems, positioned on the left side of the slide.

# **URBAN POLICIES FOR ENERGY CONSERVATION IN BUILDINGS**

Mexico City  
experience



# Mexico City. Local actions

Since 2006, in Mexico City have encourage several public policies directed to environmental protection, due to this matter started to gain popularity in country.

With specific goals to face the integral and efficient use of our natural capital and resources, which lend us to invest, conserve and make a good use of this resources, we based the programs on six concrete actions:

- Air quality and climate change
- Sustainable and smart transportation system
- Conservation land and biodiversity
- Green urban infrastructure
- Water quality and provision
- Green city, alive city



# Mexico City. Local actions



In this matter, we started up the “Sustainable Buildings Certification Program” it is a project of self adjustments, which objective is promote that consolidate buildings and in making process, adopt several sustainable actions in water, energy, solid waste, life quality and social responsibility issues.

Actually, 36 buildings are in certification process, it lend us to save energy consume, approximately 535 megawatts per year.



# Mexico City. Local actions

Also, we have the intention to sign agreements with the industrial sector to implement self-adjustment actions, environmental audits and energy saving, with a goal of pollutants reduction from up to 7 thousand tons per year.





# Mexico City. Local actions

This Program considered some modifications in the Subway's electric system, like the modernization of electromagnetic stairs system. In addition, within the context of Renewable Energy Program from Mexico City, the urban subway establish solar panels in 15 stations.

With objective of improve social participation about how to face the climate change, Mexico City participate in the "Planet Hour", which is an international event where annually take part around of 5,000 countries, it consist in a voluntary electric power cut for one hour.





# Mexico City. Local actions

With this symbolic action, we will pretend to promote the urgency and necessity to citizens adopt new habits against climate change and polluting emissions, as saving energy and reduce light pollution.





# Mexico City. Local actions

We have the Environmental Administration System, it is a project focus to manage Public Institutions from Mexico City, have a sustainable performance, in this way be able to serve like an example to society and be a leader city about encourage actions related with saving energy and polluting emissions reduction, having International Development Agency from United States of America support.

In this matter, periodically we did some training actions with public workers from 35 governmental institutions, who are responsables of maintenance services, in these workshops, they learned how to make and integrate diagnostics about generation and consume of energy in their offices.



# Mexico City. Local actions

Like an example of this actions, we can talk about a Pediatric Hospital “La Villa”, where was implemented a solar water warming and energy efficiency system; this project is being encourage in a coordinating way between Healty Secretary from Mexico City and the United States Agency to International Development.

Mexico City government has the purpose to spread it in another 13 hospitals in the city.

City has 345 thousand public lamps aproximately, this situations generates high costs in electric energy consume, as in maintenance of public lighting system.



# Mexico City. Local actions

Mexico City government, started a coordinating project between he and CITEUM de Mexico, S.A. de C.V. y CITEUM S.A., during 3 first years, the action got increase 40% of street lighting in Mexico City downtown and main avenues; besides, it manage substitute 86% from public lighting, with this, Mexico City achieve increase public lighting efficiency from up to 95%, reducing 25% electric energy consume.

This project is the first public-private association in Latin America working in public lighting; actually, it has the responsibility from 40% of this in main Mexico City highways.

It include, company will have the obligation of artistic lighting from 14 buildings and maintenance another 20. Total of this will be 34 historic buildings which will be attending under this outline.



# Federal actions

We have the "Incandescent lamps substitution by fluorescent lamps National Program" , the objective there, is generate a high saving energy users in their payments and reduce greenhouse effects gasses.

This plan will benefit around 120 thousand little towns of few economic resources, where live at least 100 thousand habitants, lending at government offer less prices' electric Energy subsidies.





# Federal actions



Approximately, the Federal Electric Commission, said the industrial sector will pay 31% less by energy consume per year.

Nowadays, there are one thousand 119 energy generation permissions, extended to private miner, steel, food supply chain, sugar, chemical and paper sectors and local governments too, by Energy Regulate Commission.



# Federal actions



The National Commission to Energy Efficiency Use, work hand by hand with some laboratories and certification centers to identified around 28% of products used in public lighting, which do not attend the law and regulations parameters, the result of this were economic sanctions and stopped of its commercialization.



# Federal actions

Due to, federal government established new obligations which private sector will have to attend, here stand out two important aspects:

- Obtain an initial certificate after 1 thousand hours of continue operation, whit the option to cancel the permission if the products reduce their lighting levels lower than thousand proof hours.
- The obligation of guarantee lamp's quality during 5 years at least.

As well, 2° Technologic Seminary about “Other alternatives in buildings energy efficiency”, was organized and directed to go down the thermic charge in that places, with this have the possibility to decrease air conditioning use until 40% of total energy electric consume.



# Federal actions

In the Seminary, participated managers from some companies like: Cotennarec/Anafapyt, Alener, Green Generation and Urban Symbiosis.

We have too, a “Guide to integrate an energetic diagnostic in buildings” this document gives a protocol which public institutions have to attend to implement energy efficiency actions as much as in their buildings like official fleets.

In addition, in Mexico was integrated an Companies Association of Saving Energy in Buildings, this group get together private companies, factories, state agencies, to organize workshops including national and international institutions from public and private sectors, with the purpose to promote energy efficiency covering in buildings.



# Federal actions



Exist too, Mexican Institute from Building Sustainable, is a civil association, its interest is establish guarantees about sustainable development in the design, build, maintenance and operation of low environmental and energetic impact buildings.



# Federal actions



Recently, federal government passed the Energetic Reform, which objective is attract and bring up to date energetic sector, Mexican government claims with this action, country will get a dynamic energetic model, based on competence,

opening, transparency sustainable and fiscal responsibility principles. It will bring us benefits and tools to start a new develop and welfare stage to Mexican families.



# Thank you



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