



The International Conference on Energy Efficiency in Cities (CIEEC 2016)

Energy efficient cities: Making it happen.

Centro Expositor Puebla (Room: Fuerte de Loreto)
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Puebla, Mexico

February 17th & 18th, 2016 (with Special Ceremony by SENER on February 16th at the Opening of the Smart City Expo)

BACKGROUND

The International Conference on Energy Efficiency in Cities (CIEEC) 2016 builds on the June 2014 Conference on Energy Efficiency in Cities held in Mexico City, hosted by the *Ugetgxtíc'f'g' Gpgti íc* (SENER); as well as the ESMAP Knowledge Exchange Forum on Liveable and Energy Efficient Cities held in Vienna in June 2015.

CIEEC 2016, organized by SENER with the support of World Bank, the Energy Sector Management Assistance Program (ESMAP), the International Energy Agency (IEA), the International Partnership for Energy Efficiency Cooperation (IPEEC), the Development Bank for Latin America (CAF) and the British Embassy in Mexico, seeks to deepen knowledge and understanding of the elements and foundation that are needed to scale-up the energy efficiency of cities, as well as to share experiences from Mexico and around the globe on energy efficiency in cities. CIEEC will take place within the 2016 Latin American edition of the *Smart City Expo World Congress*.

WHY ENERGY EFFICIENCY? WHY CITIES?

Global energy demand is projected to continue to increase at a steady pace, an increase of about 37 per cent from 2012 to 2040. Energy efficiency offers the means to bend the energy demand curve, while helping maintain or enhance energy services. It is particularly important to consider energy efficiency in the context of cities ó where half of the world population now live and where two-thirds will live by 2050 ó, as they eqpuwo g'cdqw'y q"y kf u'qh'yj g'y qtrf æ"gpgti {"cpf "ctg't gur qpukdrg"lqt" about 70 per cent of global greenhouse gas emissions. Increased and rapid urbanisation is expected to drive soaring demand for energy to power economic activity and expand services and infrastructure. This is particularly the case in developing countries.

In Mexico, cities account for approximately 72 per cent of the total population, making it a highly urbanised country where at least 84 per cent of the population is expected to be concentrated in urban areas by 2050. Over the last 10 years, electricity consumption grew at an average of 3 per cent per year, with the residential, commercial and services sectors representing 37 per cent of total electricity consumption in 2013.

In Mexico and in countries around the world, energy efficiency can play a key role in helping meet growing energy demand in cities cost effectively. In addition to helping curb energy demand in many municipal sectors and lowering energy costs, energy efficiency can also provide a range of benefits such as helping address local and global air pollution, while also contributing to energy security, economic activity and improving health and well-being.

It is also important to mention that improving resource and energy efficiency can yield important budgetary savings. Moreover, reducing energy expenditures can create the fiscal space to allow municipalities to redirect resources to fund other important social or investment priorities, which in turn may contribute to job creation and economic growth.



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OBJECTIVES

CIEEC seeks to deepen the knowledge and understanding of the possibilities and options to scale-up energy efficiency in cities and how these can also help local and national governments to:

Meet energy security objectives, deliver quality and affordable services to increasing numbers of urban dwellers, and contribute to economic development.

Reduce local and global air pollution, and contribute to the implementation of nationally-determined contributions (NDCs) to address climate change.

Specifically, the Conference seeks to

- a. Promote a dialogue on practical financing mechanisms, transformational policies and national programs aimed at supporting local governments in the promotion of smart, efficient and sustainable cities around the world.
- b. Explore new models and approaches to fast-track the deployment of energy efficiency measures and technologies.

ATTENDEES

The Conference will bring together national and international high-level participants, from local and national governments, as well as participants from international organizations, financial institutions, think-tanks and the private sector.

FORMAT

The plenary sessions will feature a speaker followed by a moderated discussion with a diverse panel of officials and experts.

LOCATION

CIEEC 2016 will take place as a side event of the **2016 Latin American edition of the Smart City Expo World Congress** (<http://www.smartcityexpopuebla.com/en/participa>) in Puebla, Mexico at Centro Expositor, (Av. Gléteky "f" g"Qt kpv%"322." \ qpc"fg"mqu"Hwgtvgu+" in room Fuerte de Loreto on **February 17th and 18th**.

AGENDA

CIEEC will focus on 4 key topics: (i) financing; (ii) institutions and delivery models; (iii) building the foundation for action on municipal energy efficiency; as well as (iv) technology and urban energy trends. A session will also make the link with relevant international developments; and another will focus on the Mexican context. The conference agenda consists of two keynote speeches and seven discussion panels.



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TUESDAY FEBRUARY 16TH - 13:00-14:00

13:00-14:00 **Opening ceremony of Smart City Expo Puebla, including a special recognition to the participation of 32 Mexican municipalities in city energy efficiency diagnostics**

Pilar Conesa, Director Smart World Congress
Rafael Moreno Valle, Secretary of Energy (SENER), Mexico
Charles Feinstein, Director Energy and Extractives Global Practice, World Bank
Rafael Moreno Valle, Governor Puebla
Ricard Zapatero, CEO, Fira Barcelona International
Tony Gali Fayad, Mayor Puebla, O'Neil
Eleazar Sanchez, President, National Conference of Municipalities of Mexico (CONAMM)

WEDNESDAY FEBRUARY 17TH - 10:00-18:45

10:00-10:45 **Welcome remarks and inauguration**

Deputy Secretary of Planning and Energy Transition, SENER, Mexico
Charles Feinstein, Director Energy and Extractives Global Practice, World Bank
Brian Motherway, Head Energy Efficiency, International Energy Agency (IEA)
Hamilton Moss, Vice President for Energy, CAF

Masters of Ceremony: Santiago Creuheras Diaz, Director General, SENER and IPEEC Policy Committee Chair & Martina Bosi, Senior Energy Economist, World Bank

10:45-11:00 COFFEE BREAK

11:00-11:45 **Energy efficiency and implications for**

Speaker: Brian Motherway, Head Energy Efficiency, IEA

11:45-13:00 **The objective is to provide an international context that is linked on progress towards energy efficient and sustainable cities. To Look at the major international events, including COP21 on climate change and the adoption of the Sustainable Development Goals for which cities and energy are key. What kind of drivers and support can these global initiatives bring to national and local governments responsible for implementation?**

Rodolfo Lacy Tamayo, Undersecretary of Environment (SEMARNAT), Mexico
Charles Feinstein, Director Energy and Extractives Global Practice, World Bank
Erik Vittrup Christensen, O'Neil Representative, UN Habitat
Hamilton Moss, Vice President for Energy, CAF

Moderator: Juan Belausteguigoitia, Mexico Autonomous Institute of Technology (ITAM)



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13:00-14:30 LUNCH

14:30-15:45 **Repgn3D'õUgwłpi 'Vj g'bcvkqpcntci gpf c<' National policy to support energy gHhelgpn'èksguö**

This panel will provide an overview of how national governments are looking at urban development and the interface with energy policy, highlighting the importance of national policy and regulatory framework to enable and support sustainable and energy efficient cities.

Speaker: Benoit Lebot, Executive Director IPEEC

Ngqpctf q'Dgrnáp.'Deputy Secretary of Planning and Energy Transition, SENER, Mexico
Irene Ccñcu, Deputy Minister, Ministry of Energy and Environment, Costa Rica
Ulla Blatt, Ministry of Energy, Utilities and Climate, Denmark
Marcelo Padilla, Energy Efficiency Division, Ministry of Energy, Chile

Moderator: Santiago Creuheras Diaz, Director General, SENER and IPEEC Policy Committee Chair

15:45-16:00 COFFEE BREAK

16:00-17:15 **Repgn4C'õRrcppłpi 'c'pf 'łpvgi t cvkqp'qh' gpgti { 'èqpułf gt cvkqpö**

Developing a vision and good planning are key to sustainable, liveable and energy efficient cities. Panelists will share their views and experience and highlight key drivers and enabling factors as well as important initiatives and actions that are working.

Speaker: Stephen B. Cook, Associated Director, Climate Change and Energy Consulting, ARUP

Uo ãq'Rgf tq'Ej kqsgwk'Uget gvt { 'qh' Services, Sao Paulo
Ivan Luis Payan Solis, Baja California Energy Commission
Matt Petersen, Chief Sustainability Officer, City of Los Angeles
Iqué'Ectmqu'Vgpgtkq.'Gzgewkxg'F kt gevqt." ICLEI O ézkeq

Moderator: Martina Bosi, Senior Energy Economist, World Bank

17:15-17:30 COFFEE BREAK

17:30-18:45 **Repgn' 4D'' õDwłf łpi '' hqwpf cvkqp'' hqt '' ccvkqp'qp'b wplekr cñlgpgti { 'gHhelgpe{ õ**

The session will examine the important pillars of the foundation for a successful energy efficiency strategy in cities, looking at needs and gaps in areas such as data, analysis, energy management systems, awareness, and stakeholder engagement. The discussion will focus on examples of good practice, highlighting actions to be taken, potential challenges, trade-offs, and existing gaps.

Speaker: Kelly Speakes-Backman, Vice President Policy and Research, Alliance to Save Energy

Tcúin'Vcñp.'Director General, Electric Power Saving Trust Fund (FIDE), Mexico
David Hill, Director, Vermont Energy Investment Corporation
Andrew McAllister, Commissioner, California Energy Commission
Hcpçqlu'O qkucp.'F kt gevqt 'qh'Utcvgi { ." Research & International Affairs, Environment and Energy Efficiency Agency (ADEME), France

Moderator: Ashok Sarkar, Senior Energy Specialist, World Bank

19:00-20:00 WELCOME COCKTAIL



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THURSDAY FEBRUARY 18TH - 09:00 ó 16:00

09:00-09:30 **Keynote: Catalyzing sustainable economic growth while reducing emissions ó insights from the New Climate Economy**

Speaker: Jennifer Layke, Director of the Building Efficiency Initiative of the WRI Ross Center for Sustainable Cities

09:30-10:45 **Repgi' 5C'' " ðVcnlpi '' action on energy efficient cities: the Mexico ecugö**

This session will present the initiatives that Mexico has in place in terms of energy efficiency at national and local levels. Representatives of federal and local governments will share insights and achievements.

Speaker: Hcpekeq'Dctpéu.'Gzgewkxg'F kt gevqt.'
Centro Mario Molina

Santiago Creuheras, Director General, SENER, O ézleq
Gonzalo Montemayor, Deputy Director General, CONUEE, O ézleq
Ricardo de la Parra, Director, Directorate of Environmental Management.'Ngóp, O ézleq
Julia Martínez, CTS EMBARQ

Moderator: Steven Gray, Director Mexico, The Carbon Trust

10:45-11:00 COFFEE BREAK

11:00-12:30 **Panel 3B ðWtdcp'' gpgti {'' vt gpf u'' and technology to help meet demand for energy services and gpj cpeg'gpgti { 'gthelgpe{ ö**

The panel will explore trends, policies and technology options to meet demand for energy services in an energy efficient and low carbon way.

Speaker: Hal Harvey, CEO, Energy Innovation

Ken Cornelius, Head ó Global Center of Competence Americas, Siemens
Ghtép'Hcpeq.'Kóvt pc vk p c n E q r r g t ''
Association
Armando Martinez, Vice President Corporate Affairs, Latin America, Johnson Controls
Vj kdcw'Xq'va, Programme Officer Energy Efficiency, SE4ALL
Laxmi Rao, Director International District Energy Association (IDEA)

Moderator: Richard Shackleton, First Secretary for Climate Change, Energy & Low Carbon Growth, British Embassy in Mexico

12:30-14:00 LUNCH

14:00-15:20 **Panel 4 ðHpcpeki '' gpgti {'' gthelgpe{ 'lp'èlslgüö**

The session will discuss the financing needs, barriers, and provide examples of practical solutions and mechanism for energy efficiency financing. The panel will share views on how to adapt solutions working in one country to different contexts.

Speaker: Jas Singh, Senior Energy Specialist, World Bank

Adesh Saxena , Project Manager, Energy Efficiency Services, India
Mark Wolfe, Executive Director, Energy Programs Consortium
Bernardo Salas, North America Development Bank (NaDBank)
Victor Rojas, Manager Financial Policy, Environmental Defense Fund (EDF)
Agnes Biscaglia, Senior Program Officer, French Development Agency (AFD)

Moderator: Antonio Barbalho, Energy Practice Manager, World Bank



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15:20-16:00 **Closing Remarks**

The final panel will highlight key take-aways from the Conference and reflect on the various pieces and players needed to make real progress on the ground and scale-up energy efficiency in cities.

Ngqpcrf q'Dgnáp.'Deputy Secretary of Planning and Energy Transition, SENER, Mexico

Antonio Barbalho, Energy Practice Manager, World Bank

Brian Motherway, Head of Energy Efficiency, IEA

Richard Shackleton, First Secretary for Climate Change, Energy and Low Carbon Growth, British Embassy in Mexico

Moderator: Janina Franco, Senior Energy Specialist, World Bank