Impact from Electric Vehicles

March 2012
Comisión Federal de Electricidad (CFE)

- Single operator of electricity service in Mexico.
- Created and owned by the Mexican government
- Vertically integrated
- 35.3 million customers
- 97.6% coverage (100+ million people)
- 209 generating plants
- 52,515 MW of installed capacity
- 22.67% of installed capacity from Independent Power Producers
- 756,000 km of transmission and distribution lines nation-wide
- Substation tranformation capacity of 156,400 MVA
- 46,000 MVA capacity on distribution substations
- 88,000 active personnel
Structure of Energy Sector in Mexico

Secretaría de Energía is responsible for the development and implementation of energy policy in Mexico.

Ministry of Energy

Commissions

Government Owned Companies

Public Research Institutes
Other Regulators Involved

• Secretaría de Economía is responsible for economic development strategies and policy

• Secretaría de Hacienda is responsible of treasury policy, budget management, approval of infrastructure’s investment and public rates for basic services and products
Vehicle in Mexico

- Form 10 to 33 million vehicles in last 20 years
- Sales have slowed down gradually
Emissions Scenario

- Mexico is becoming a player
Transportation

- Transport is the fastest growing sector in energy consumption and is responsible for most CO₂ emissions in Mexico.

- Planning unable to cope with growth originated important challenges for transit distribution in major cities
- Constant increase of urban population

*México: Estudio sobre la Disminución de Emisiones de Carbono*
Economics

- Prices of EV
- Subsidy on domestic electric energy rates
- Fuel prices increasing constantly
- Dependance on gasoline imports
- Emerging economy
  - GDP per capita 2010 (current US$)
    - E.U.A. 47.199
    - México 9.123
- Critical mass
Drivers

- More economic and cleaner transportation
- Emmissions reduction
- Energy efficiency
- Economic development
- Energy security
Stakeholders

Customer

Regulation

Industry

Utility
Impact on the Utility

Energy + Information
Actions

- Participation in International Forums
  - ISGAN, E8, IEA
- Close follow-up of standard development
- Cooperation with regulation key players
  - SENER, SHCP, SE
- Awareness of technology and industry tendencies
- Enhancement of grid capabilities
- Strengthen of ICT
- Development of pilot projects
  - Aguascalientes, Mexico City
Thank you