

Impact from Electric Vehicles

March 2012



Nueva Infraestructura



*Transparencia y
Rendición de Cuentas*



Energía Limpia



Modernización Zona Centro



Atención a Clientes



- **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 transformation capacity of 156,400 MVA
- 46,000 MVA capacity on distribution substations
- 88,000 active personnel



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

Ministry of Energy



Comissions



Comisión Nacional de Seguridad Nuclear y Salvaguardias.



Government Owned Companies



Public Research Institutes



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

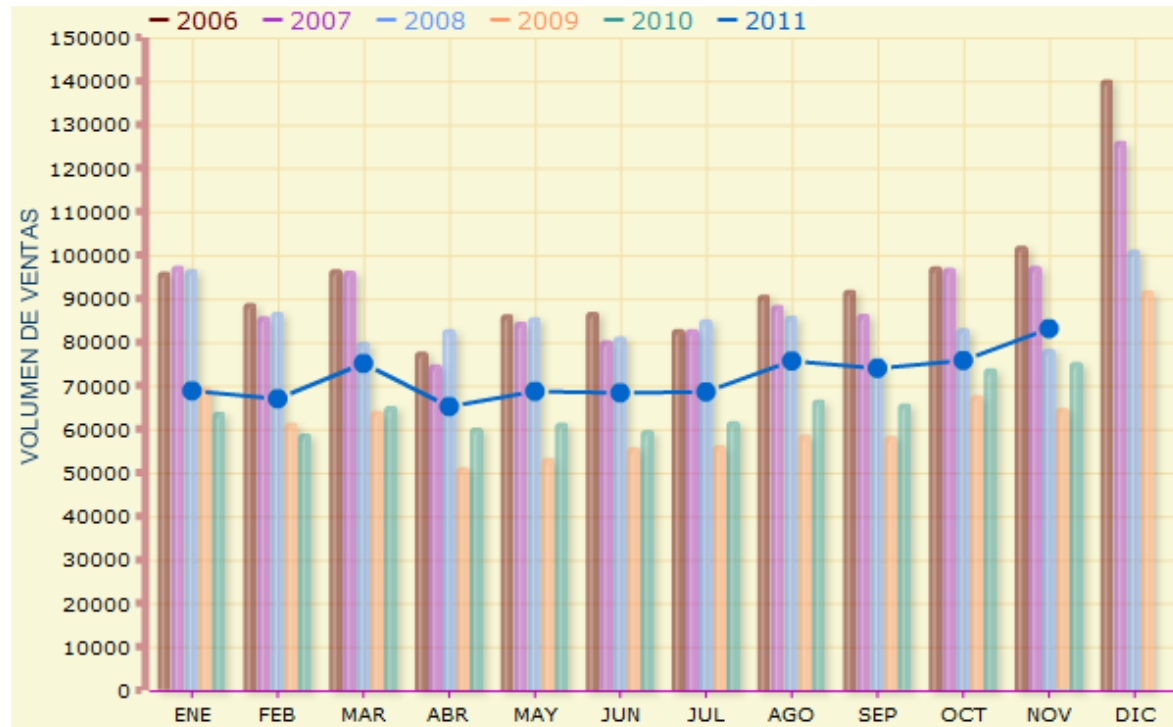


- Secretaría de Hacienda is responsible of treasury policy, budget management , approval of infrastructure's investment and public rates for basic services and products





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

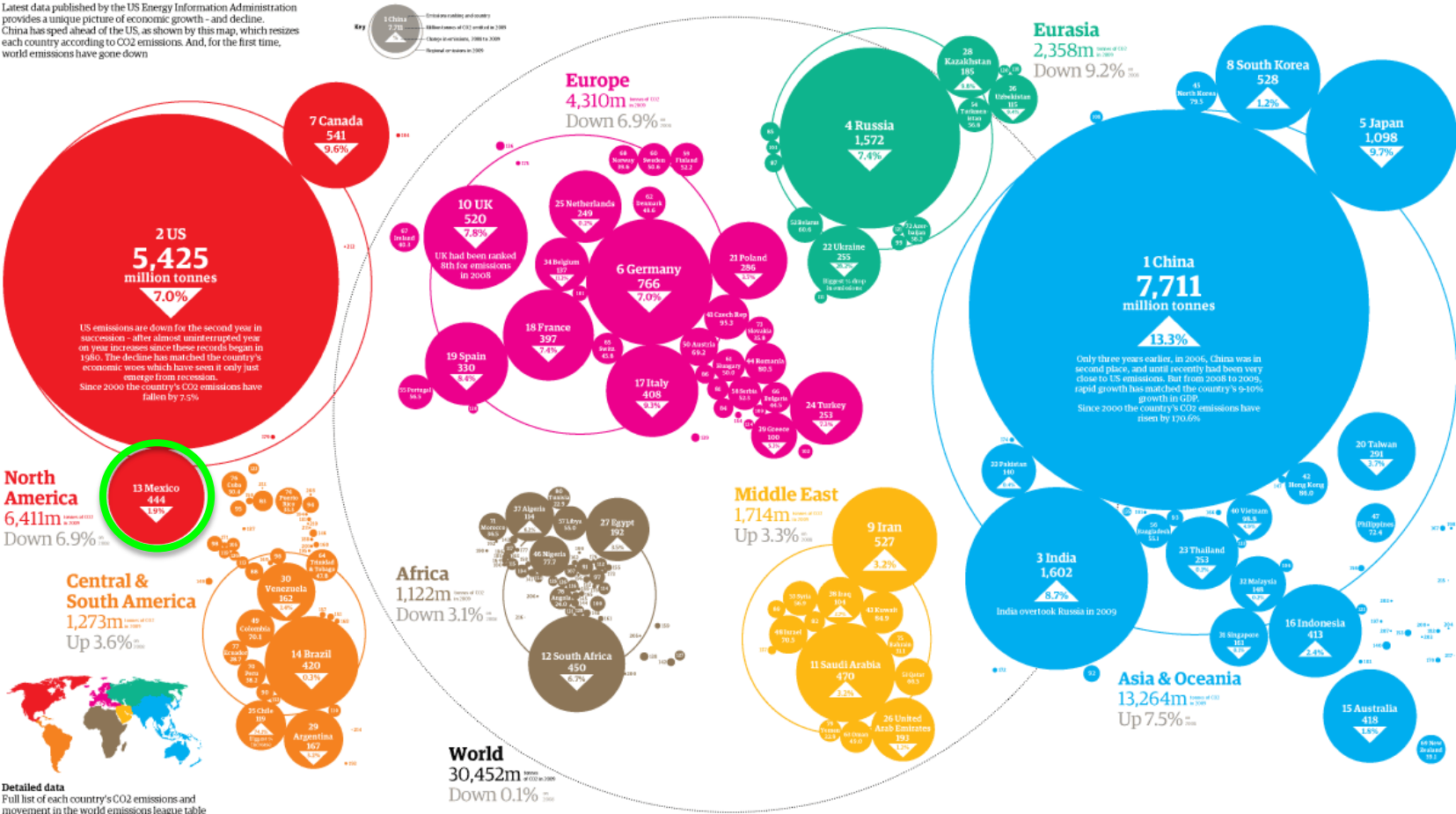


Sales to Public 2011



- Mexico is becoming a player

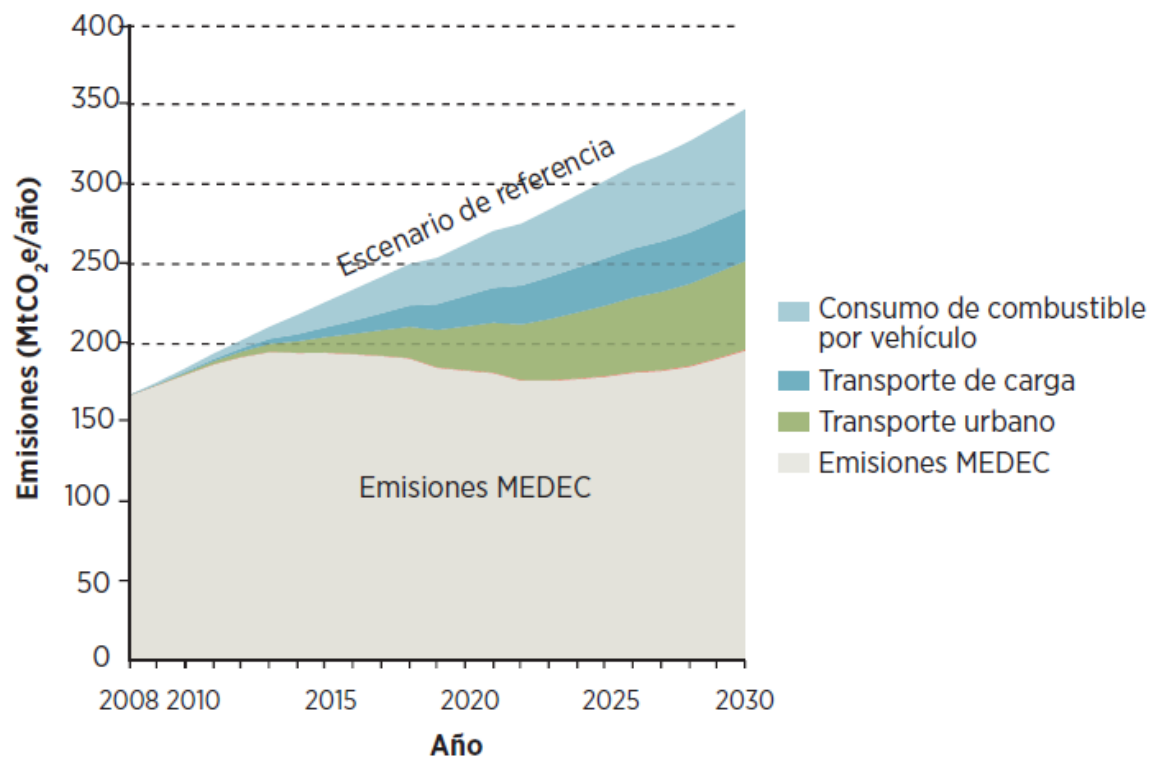
Latest data published by the US Energy Information Administration provides a unique picture of economic growth - and decline. China has sped ahead of the US, as shown by this map, which resizes each country according to CO2 emissions. And, for the first time, world emissions have gone down



*The Guardian, UK



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



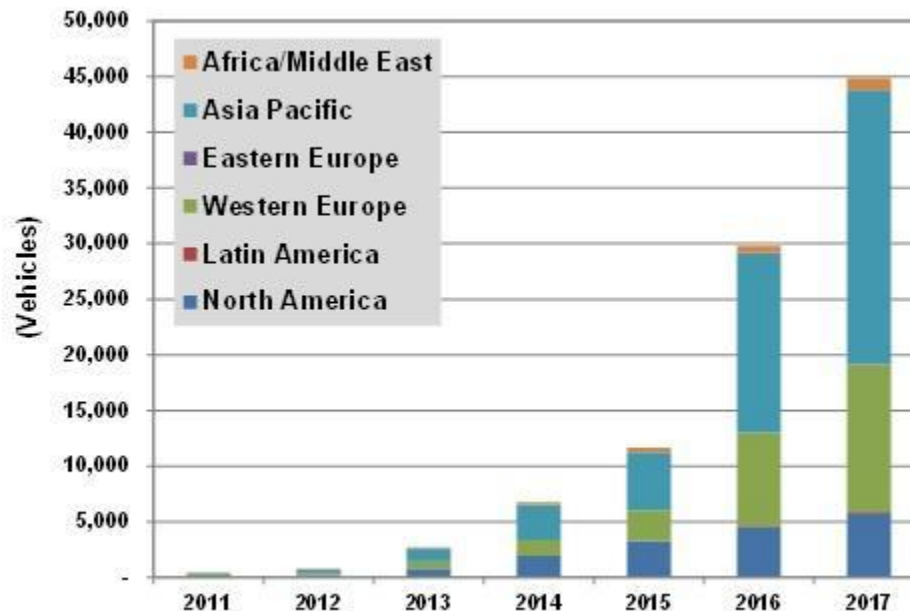
- Planning unable to cope with growth originated important challenges for transit distribution in major cities
- Constant increase of urban population

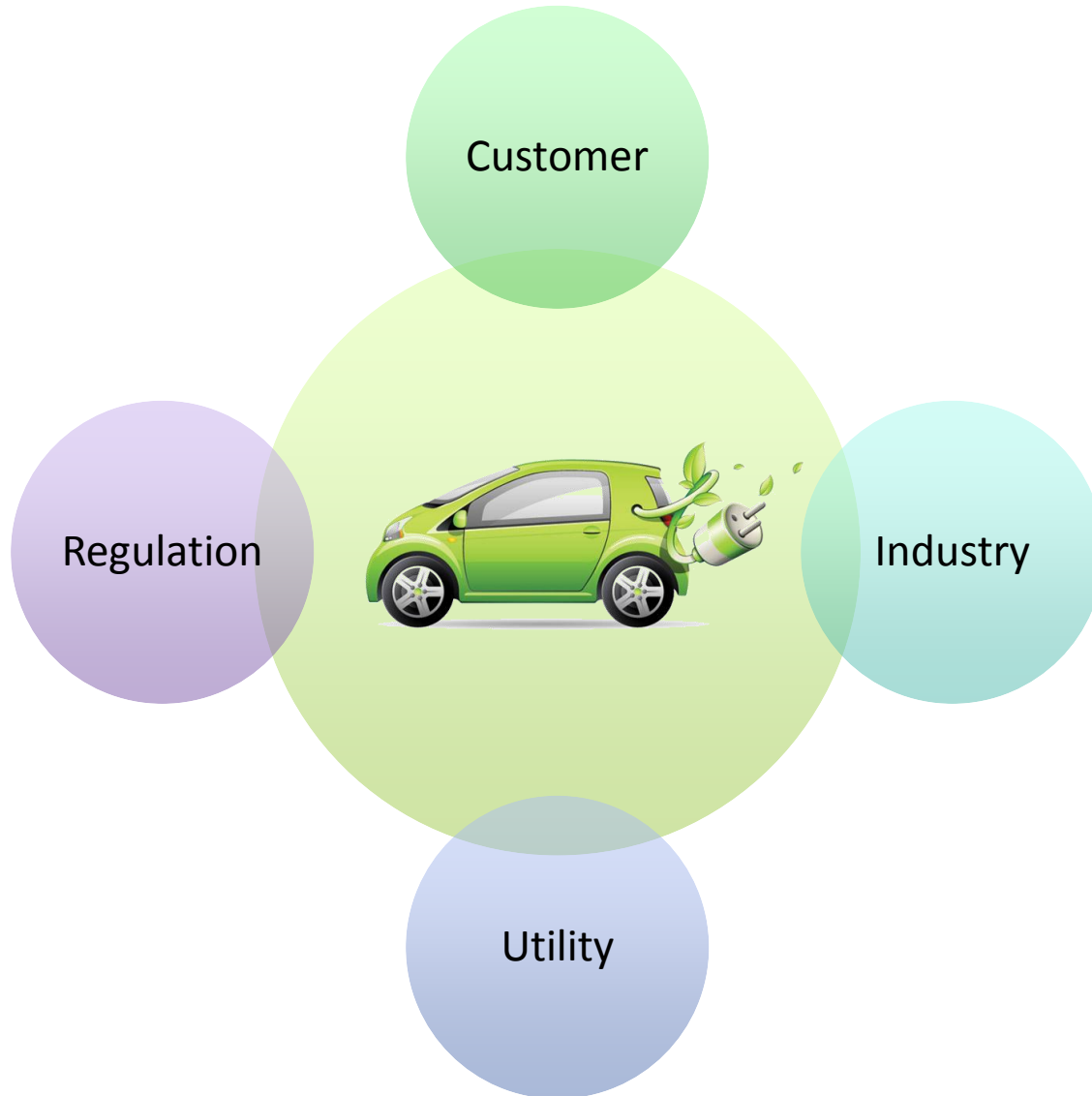


- Prices of EV
- Subsidy on domestic electric energy rates
- Fuel prices increasing constantly
- Dependence on gasoline imports
- Emerging economy
 - GDP per capita 2010(current US\$)
 - E.U.A. 47.199
 - México 9.123
- Critical mass

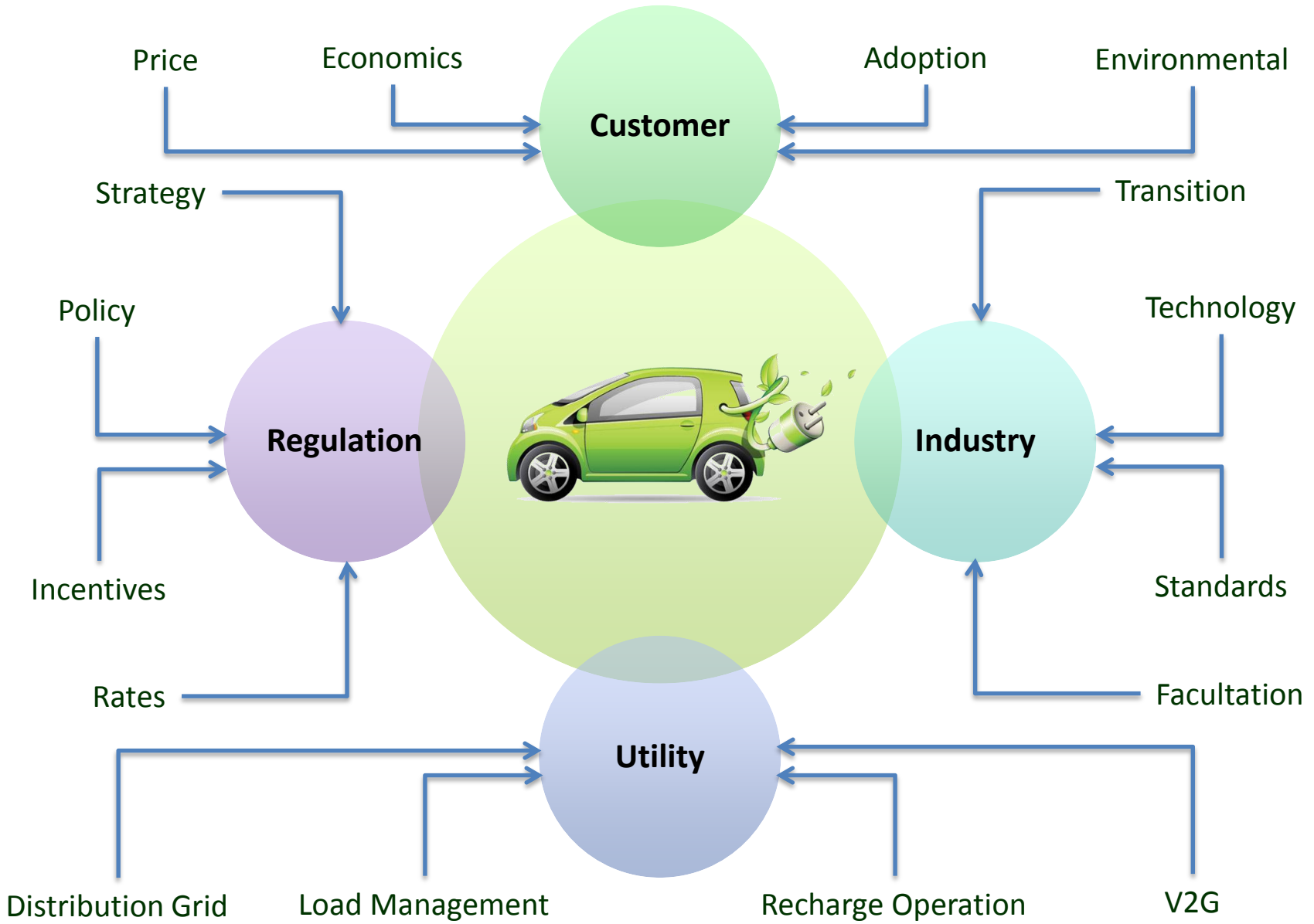


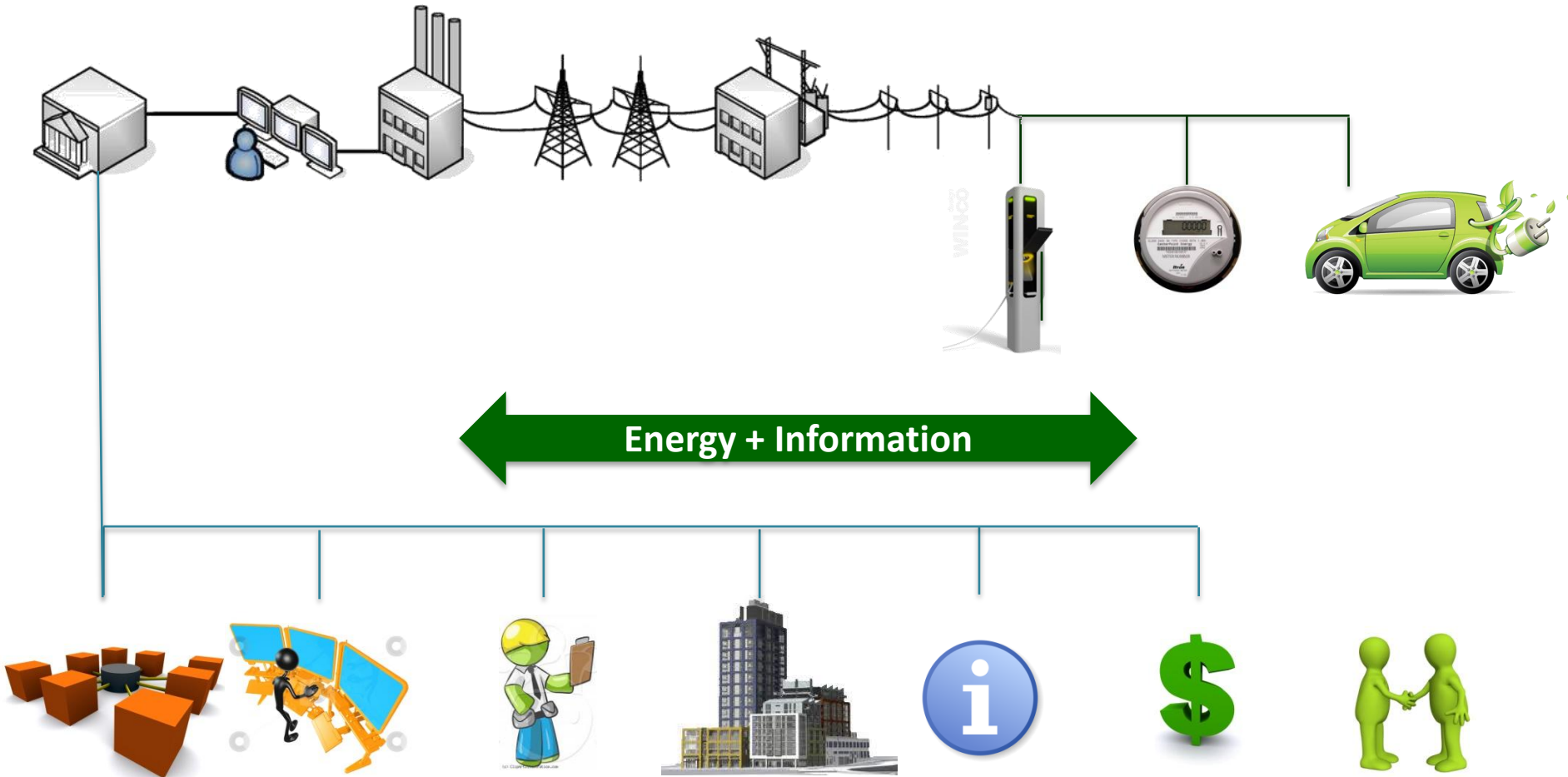
- More economic and cleaner transportation
- Emmissions reduction
- Energy efficiency
- Economic development
- Energy secutiry





Elements







- 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

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CFE *Una empresa
de clase mundial*