Siemens - Cities of Tomorrow

Adding intelligence to grids – Smart Grids

Siemens solutions for sustainable cities

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Infrastructure & Cities
We are in the "urban millennium"

Population Growth

In 2007 ~ 50% of the world's population was living in cities, an increase to ~ 70 % until 2050
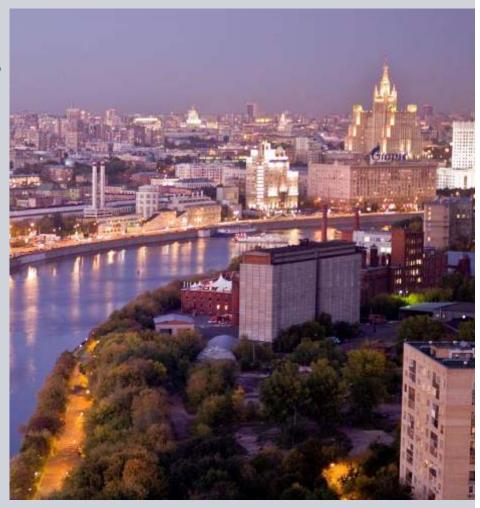
Demografic Change

Generation over 65 years will doubled until 2030

Major energy and climate factor

75% of energy consumed in cities; 80% of CO_2 emissions are produced in cities

Cities as Powerhouses

50% of world GDP is produced in cities with a population over 750,000

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Basic needs of a city drive the market for intelligent infrastructure solutions

SIEMENS

Efficient transportation of people and goods

Reliable and efficient supply of energy

Smart building

Comfort and security

Low emissions

Growth beyond core business and effective go-to-market

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Siemens mission – Transform cities for the better through sustainable technology

SIEMENS

Intelligent traffic management

- Traffic flow management
- Tolling systems

Smart grid solutions

- Demand response system
- Decentralized energy management
- Grid automation

Rail-bound transit solutions

- High-speed and metro rail
- Train control systems
- Traction power supply

Safety and security

- Fire safety
- Access control and identification

We are the pioneering partner for infrastructure & cities and address our customers' needs such as

- Clean technology
- Efficient use of resources
- Connected information
- Automation of infrastructure

Energy efficient buildings

- Building Automation
- Energy performance contracting

Siemens' water automation technologies and energy supply complement this portfolio

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Smart Grid
Intelligent grids for a sustainable future

The new age of electricity

"The smart grid ensures balance between generation and consumption, integrating distributed and renewable energy sources by an bidirectional energy and communication flow ."

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Low and Medium Voltage: Providing Totally Integrated Power Distribution for a smart building

Integration of small renewable power generation

Communication with the smart grid

Connecting green bulk power

Low voltage power supply for industrial sites

Medium Voltage Transformer Substation

Power Exchange from and to the urban medium voltage grid

Low voltage distribution switchboard

Low voltage power supply for smart buildings

Low voltage power supply for e-Cars and general transportation

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