

The world is evolving... so are the challenges. And so must the solutions!















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Ingenuity for life

The challenge

Transforming existing energy systems

Industrial Systems

Transportation

Smart Cities and Buildings



Industrial Systems

Custumer case DES Project– Cogeneration @ Braskem

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Customer priorities:

- Reduce NG consumption
- Reduce Grid Energy consumption
- Power plant availability and reliability



Siemens Solution

- Implementation of a CHP plant with Gas Turbine and HRSG
- Replacement of steam turbines by electrical motors
- Business model: BOO
- Energy efficiency project: converting residual process gas (FG) into electrical energy





Data Analysis

that enables the identification of...





City Performance Tool (CyPT) – analyse more than 300 cities indicators to drive sustainable growth



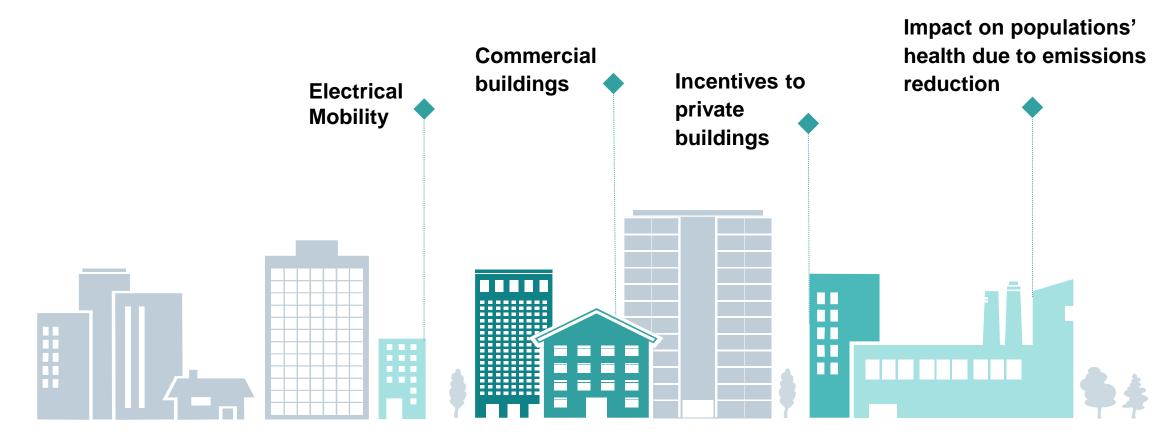
Data collection

Environmental baseline

Technological solutions impact

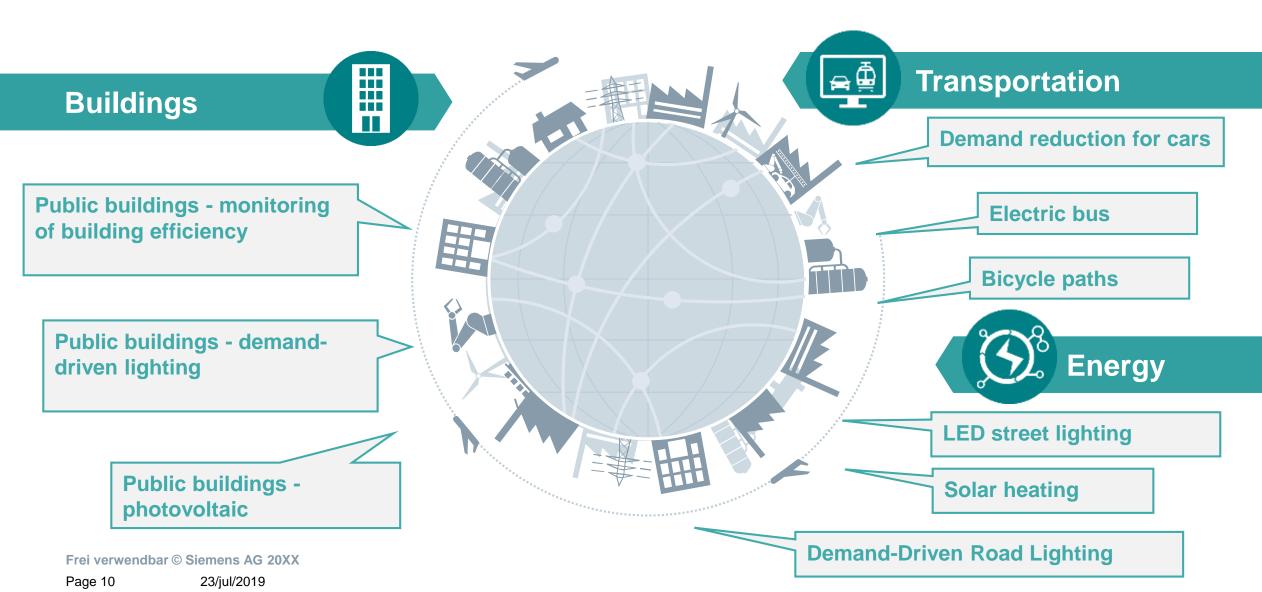
Report

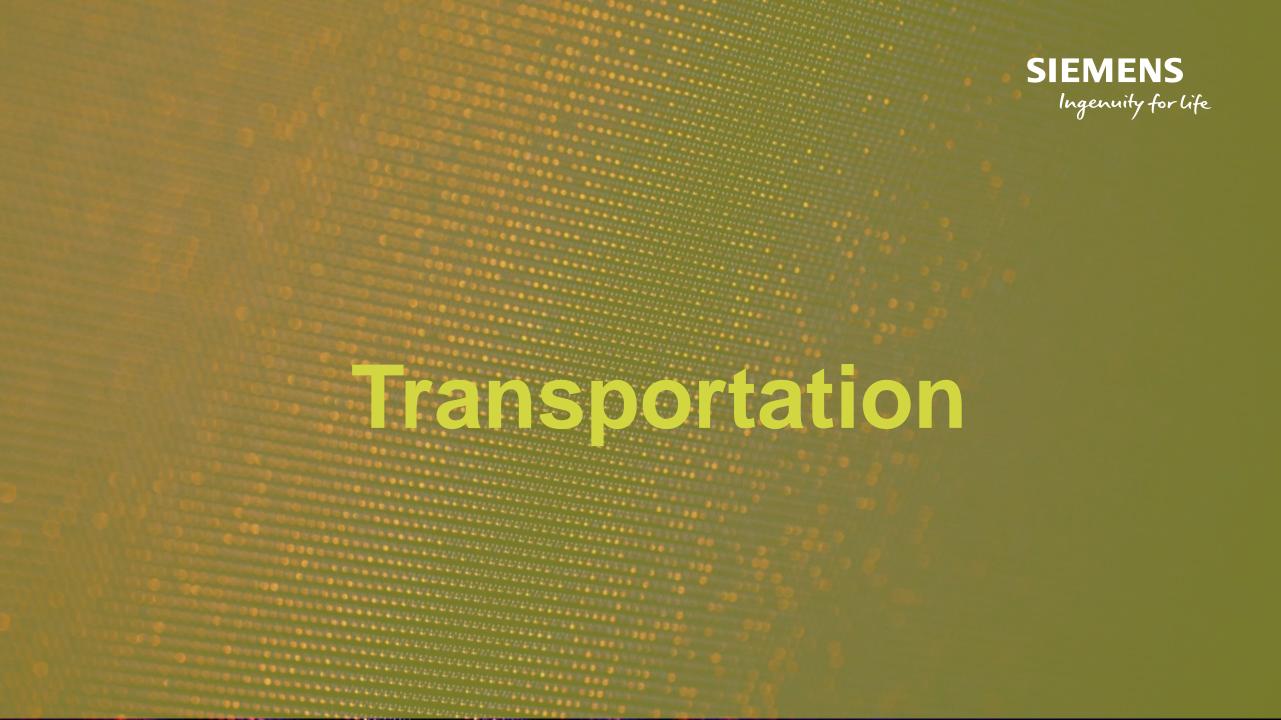




The City of Jundiaí chose to focus on 10 major future technologies



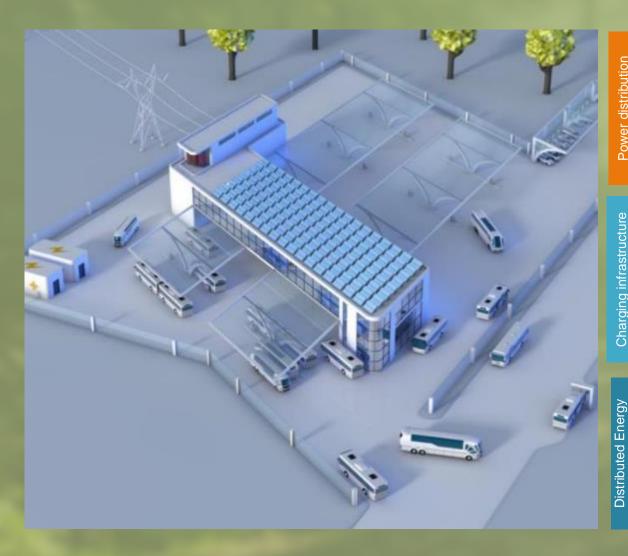






An entire infrastructure to provide affordable, green and reliable energy will be necessary

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Flexible and modular grid access



Space optimized



MV & LV distribution on site "clean-air"



Busbar trunking



Charging poles – Plug-in or roof-mounted



Indoor pantograph



Fast charging stations outside



Integration of e-cars service fleet



Renewable integration Modular storage & micro-grid



second life



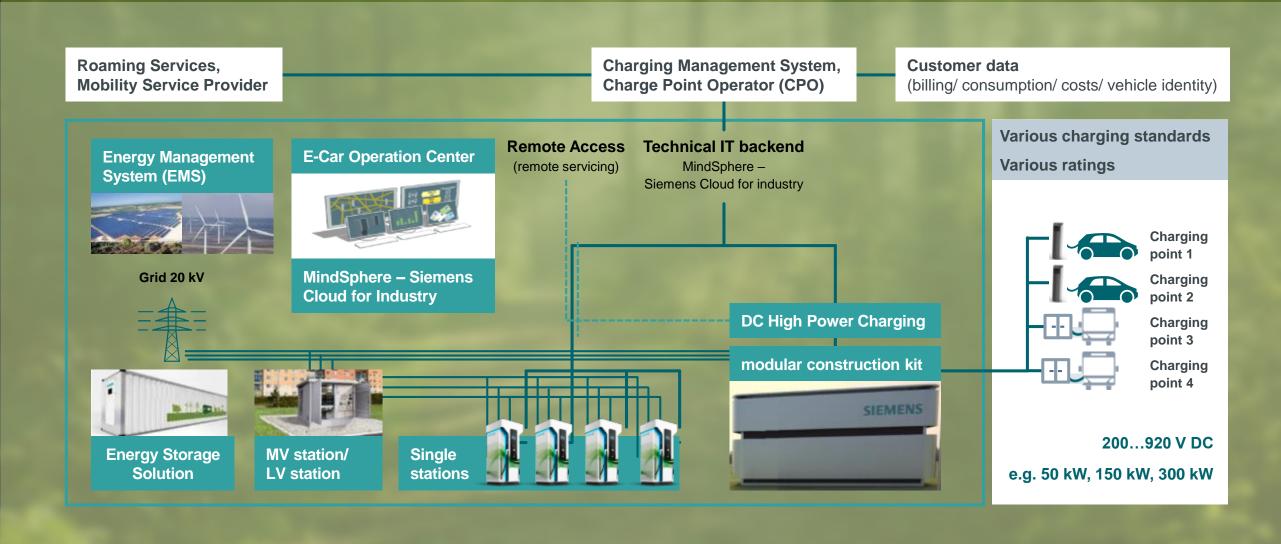
Monitoring & control SW



Consulting, oper. & managed services

eMobility Infrastructure

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Trucks electrification Contributing to a sustainable transportation

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Customer priorities:

- Operational costs optimization
- Environmentally friendly solution



Siemens Solution

- The hybrid solution reduce the use of fossil fuels and truck operating costs, at the same time eliminating local emissions such as CO2 and nitrogen oxides
- Sustainable, clean and economical mine operation

Electric flight Modeling the future of flight





The first prototype of an electric plane was presented during the Paris Air Show 2019.

The prototype is based on Siemens' all-electric propulsion systems for aircraft.



Cocreate innovative solutions with customers

Public Policies and initiatives to assure further development

Regulation in the transportation segment

Carbon Pricing to sustainable growth

