Net Zero Energy Buildings Strategies, Technologies, and Challenges in Scaling Up

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Buildings

40% 33%

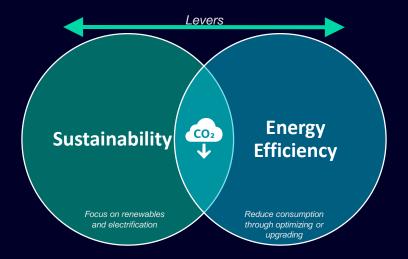
of all energy is used by buildings.

of greenhouse gas emissions

Source: Alliance To Save Energy (ASE)

Energy Transition Goal

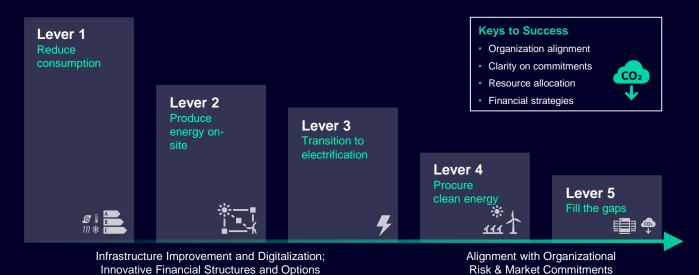
Limit global warming to well below 2.0, preferably to 1.5 °C



Global Energy Transition
Decarbonization. Digitalization. Decentralization.



Decarbonization Roadmap Levers



Digitalization Creating a bridge between real and virtual worlds



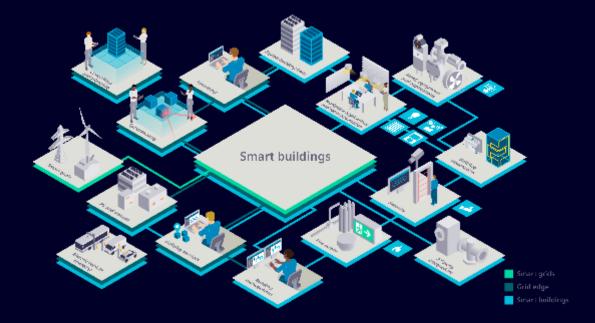
In the built-environment, this means connecting:

Sensor Device Softwar
s s e
to

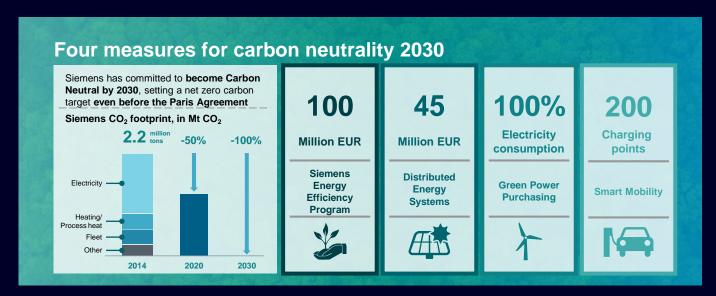
Monitor, Analyze & Respond

Optimize & Improve Resource Utilization

Smart buildings transforming the everyday



We are walking the walk; committed to becoming carbon neutral by 2030



We have saved our customers...



450M kWh

Total Energy Savings



202 MAED

Total Cost Savings

Decarbonization



230,000 MT

Carbon Reduction

Equivalent to:

CO₂ emissions from...





Greenhouse gas emissions equivalent to...



Carbon sequestered by...

80,645





Airports | District Cooling Plants | Hospitals | Industrial Facilities | Educational Institutions | Malls

Hotels | Residential Buildings | Commercial Offices

SIEMENS

Siemens supports the UAE's **American University of Ras Al Khaimah's** energy conservation plan with energy systems retrofit



Partnering for the Future of eMobility in UAE with MoEl and Audi





Accelerate to 2030 The path to net zero buildings is digital