Microgrids

contributing to the Energy Transition

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The new energy landscape has changed how we produce, integrate, and use electricity

- From linear fossil fuel supply and demand
- to a cleaner energy supply with increasing renewables…
- … and prosumers feeding a bi-directional, flexible grid
- Increasing Electrification is reducing dependency on fossil fuels
- And digital technology is driving demand optimisation

There is a higher demand for Energy across all sectors

Scope 2 and 3 Emissions

The rising cost of energy

Power Reliability

Increasing Grid Complexity

Prosumerism

Decarbonising supply is only one side of the energy coin

Replace
energy supply
45%*

Offsite renewables purchasing
PPAs

Onsite renewables generation
Solar, microgrid, storage

*Contribution to net-zero energy by 2050

We need to look at both sides… and tackle **demand**

Design & Build for Low Carbon
3D-6D BIM design to reduce embodied carbon

Measure, Monitor & Save
Connected systems and software for real-time data, insights and automation

Circularity for sustainability
Choose green by design, with extended life, efficient usage & clean disposal options

Electrify Everywhere
From transport to heat to industrial processes… Reduce fossil fuel demand by transitioning to electric

Reduce
for energy and operational efficiency and circularity
25%

Electrify
processes
30%

*Contribution to net-zero energy by 2050

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Microgrids provide **3 integrated outcomes** for Prosumers

Reliability

MAINTAIN power supply during outages

ENSURE continuous operations

EXPAND site power capacity

Economic Performance

CONSUME energy when prices are low

IDENTIFY saving opportunities

EARN revenues from energy markets

Sustainability

INTEGRATE renewable energy sources

ELECTRIFY operations

REDUCE and track sustainability

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Microgrids can tackle different needs

		Economic performance	Resilience & independence	Sustainability
Renewable Integration	Cut off scope 2 emissions by consuming green and local			☑
Economic Arbitrage	Control local DERs based on utility tariff scheme	☑		
Self consumption	Consume as much as possible from local DERs	☑	☑	
Non wire alternative	Add local capacity in order to cope with the increasing power demand	☑	☑	
Back up power	Increase site's resilience by adding local back up power		☑	
Grid Ancillary services	Monetize site's flexibility by participating in Demand Response and/or FFR mechanism to help grid stability	☑		

Questions? Let's Talk

Do you want to know more about Microgrids? Let's accelerate the ***decarbonization*** *and* ***optimization*** *of the built environment, towards a* ***resilient*** *future powered by technology, together!*

Meet today's speaker:

Frank-Helmut Wehner

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Add me on LinkedIn

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