



# French-Dutch urban planning conference

30-05-2024

# The Energy Trilemma

## Sustainability

**-45%** GHG emissions needed by 2030 to meet 1.5°C trajectory

**+9%** emissions by 2030 based on Current National Plans of 195 Parties

Source: UNFCCC, OPEC, IEA, Eurostat, European Commission

## Affordability

**44%** world population is energy poor

**100%** new energy demand from emerging markets

**€604Bn** EU energy import bill in 2022, vs. **€163Bn** in 2020

## Security

**80%** of world crude oil produced in **13** countries

**9.3%** EU Population unable to keep home adequately warm in 2022



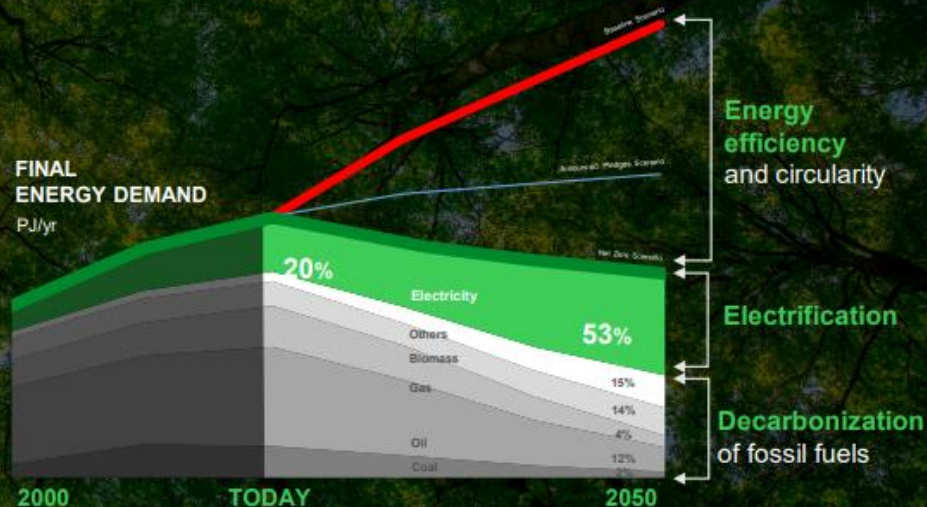
# Fast-forward to Net Zero 2050

Bring Energy to 3Bn people + Curb Emissions radically

TODAY → 2050

8BN	World Population	9.8BN
800Mn	People Without Access to Energy	ZERO
3BN	Middle Class Population	7BN

Sources: Net Zero by 2050, International Energy Agency; Announced Pledges Scenario, International Energy Agency; Back to 2050, Schneider Electric Sustainability Research Institute; Oxford University Press



# Different energy dynamics across different geographies

2021 CO<sub>2</sub> Emissions  
Energy-related

**399.7K** **454.2K**  
Total Final Energy Consumption (PJ/yr)  
2020 2050

Mature Economies  
**41%** **29%**  
165.2K 134.0K

**35%**

**32%**

China  
**25%** **20%**  
98.0K 88.9K

New Economies  
**28%** **39%**  
111.4K 177.4K

**24%**

**7%**

India  
**6%** **12%**  
25.2K 53.9K

Source: Announced Pledge Scenario, IEA, 2021

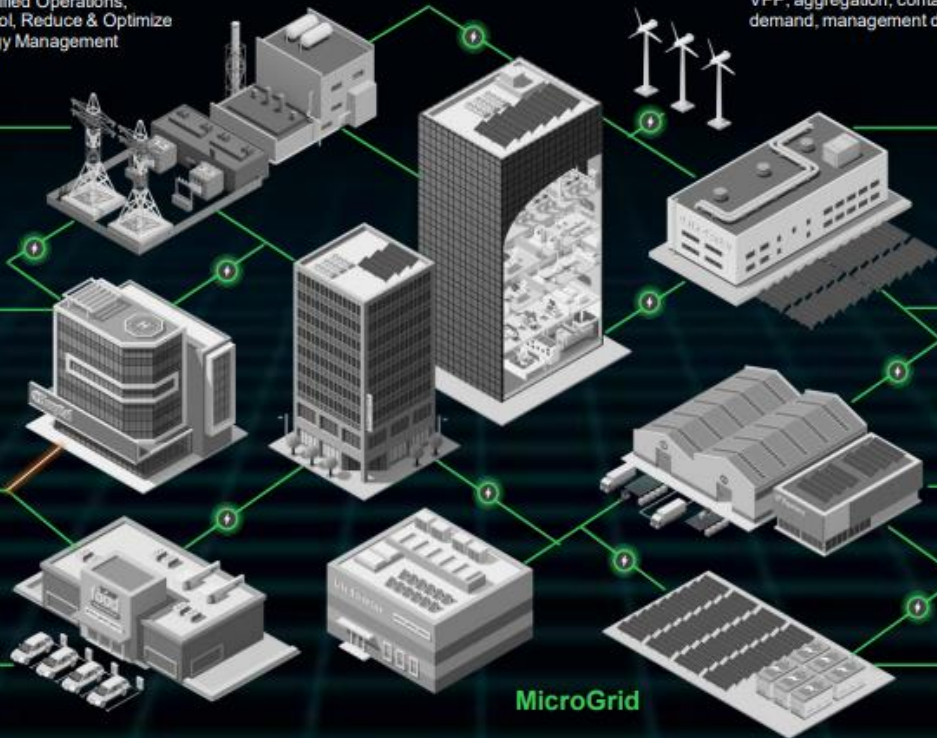


# Cities of the future: enabled by data from plant to plug



## Grid Connected Assets

Electrified Operations,  
Control, Reduce & Optimize  
Energy Management



## Smart Grid

VPP, aggregation, control &  
demand, management dispatch



# Full Year 2023 – record performance in milestone year



Energy Management

**€28bn**  
FY23 revenues

**+14%**  
org. growth

Industrial Automation

**€8bn**  
FY23 revenues

**+7%**  
org. growth

**Group**

**€36bn** **+13%**  
FY23 revenues org. growth

**17.9%**  
Adj. EBITA margin

**+180bps**  
org. improvement

**Adj. EBITA up +25% org. exceeding targeted range**

End-markets exposure<sup>1</sup>

Data Centers & Networks 21%

Buildings 32%

Industry 34%

Infrastructure 13%

<sup>1</sup> Based on 2023 Orders

# Schneider Electric The Netherlands





# The Equation for the Future

Automation

Software  
Data  
Decarbonization

Digital + Electric = Sustainable

Electric

Green and Smart





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