

Technology to transform the grid



BofA Grid Infrastructure Outlook Seminar
November 6th, 2023

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Due to rounding, numbers presented throughout this and other documents may not add up precisely to the totals provided and percentages may not precisely reflect the absolute figures.

All information is preliminary.

Electrification of everything accelerates electricity demand, increasing pressure on grid stability, renewable integration and transmission capacity

Electrification
of everything

3x
higher electricity
demand by 2050

40 years
Age of one third of European
low Voltage grids

>30%
Renewable electricity capacity
additions in 2023



Siemens Smart Infrastructure is best positioned to address these challenges, operating in the markets of electrification, buildings and electrical products

Smart Infrastructure Facts and figures FY22



€17.4 bn

Revenue



12.8%

Profit margin



72,700

Employees



– Electrification

- Power distribution systems
- Distributed energy technology
- Grid simulation and management
- Micro grids
- Charging infrastructure for e-vehicles



– Buildings

- Management of Heating, Air Conditioning and Ventilation
- Fire Safety and Security
- Energy and performance services



– Electrical Products

- Safe power supply for buildings and communities
- Low voltage power distribution
- Power monitoring & optimization

Q3 Guidance for FY23



14-16%

comp. revenue growth



14.5-15.5%




profit margin

How to cope with the growing demand? By transforming the existing grid with digitalization and software and expanding it with smart and sustainable technology

2x grid capacity required by 2040



Grid transformation

-  Expansion with smart and sustainable technologies
-  Software and digitalization to find and build exponential capacity in existing infrastructure
-  Sector coupling

Frontrunner in Smart Electrification

Leading market position

- in software portfolio for grid planning and control
- in medium-voltage gas insulated switchgear (GIS), protection and automation

Innovation leaders

- Next Gen Grid Management Software Suite incl. LV Insights X for low voltage grid management
- SIPROTEC DigitalTwin

Expanding position

in market share

First to market

with “blue” clean-air GIS (SF₆ free)

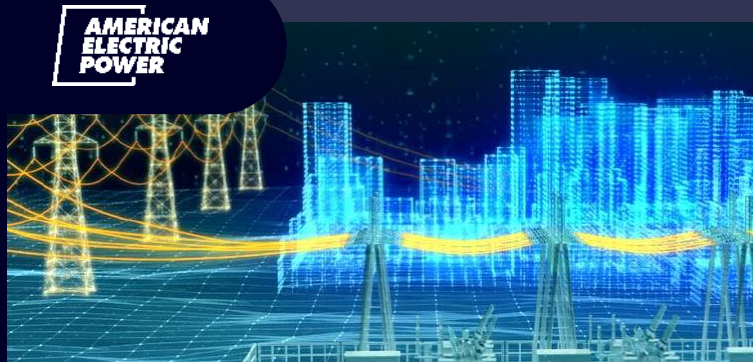


The demand is here, we have the offerings, and we work with leading customers on innovative solutions

Digital twin of largest US transmission system

Customer benefits:

- Less effort for network model management
- Centralized data and simplified grid management
- Efficiency, safety and reliability



Intelligent substation for EV charging

Customer benefits:

- Upgrade with ultra-fast EV charging technology
- Highest reliability and better grid utilization
- Optimal usage of assets



EnergyIP Meter Data Management and Analytics

Customer benefits:

- Full network transparency, enabling analysis of complex scenarios
- > 99.99% of data issues resolved automatically
- Future-proof



We enable the grid transformation from 3 different perspectives:
Technology and innovation, customer centricity and speed of implementation

01 | **Technology and innovation**



Digitalization

Grid Software

MV power distribution

EV charging infrastructure



Sustainability

Automation, Protection & Communication for HV and MV systems

LV power distribution and electrical installation technology

02 | **Customer centricity**



Co-created SaaS offering addressing customers' recurring needs



Develop products that scale

03 | **Speed**



Minimum configuration needed



Siemens Xcelerator portfolio

Our digital offering on Siemens Xcelerator provides the transparency and intelligence on the grid infrastructure necessary to accelerate implementation

Electrification X



LV Insights X

Digital substation Jabel

Customer benefits:

- Maximized availability
- Continuous monitoring, enabling anomalies detection



LV grid transparency

Customer benefits:

- Double grid capacity in seven years
- Future-proof distribution grid management
- Cost-savings and improved grid stability


Elvia




We are perfectly positioned to continue to win market share in a growing market

Continue investments in

 Innovative and scalable technologies

 Digitalization and sustainability

 Siemens Xcelerator portfolio

