



April 10th, 2025 Sofia, Bulgaria



Siemens Energy is a global leader in the energy business

~1/6

of global electricity generation is based on our technology.

100,000

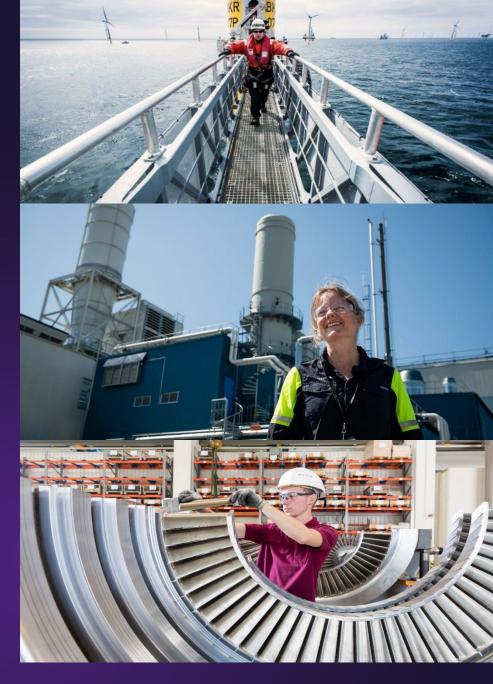
employees work as a team to energize society.¹

We are present in

>90 countries.

We invest around

€1.2bn annually in research and development.



Our financial performance in the Fiscal Year 2024

Orders **€50.2bn** Revenue €34.5bn

Order backlog €123bn

Top end of FY24 guidance reached for all KPIs

- Strong revenue growth and significant margin expansion
- Very strong free cashflow generation
- Record order backlog with improvement margin quality

Electricity market continues with strong growth momentum

- Increasing electricity demand drives infrastructure needs
- Grid remains focus area of customer investments
- Rising demand of data centers



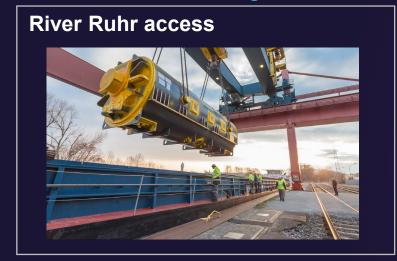
Siemens Energy Site Muelheim an der Ruhr Competence Center for Energy Transition Technologies





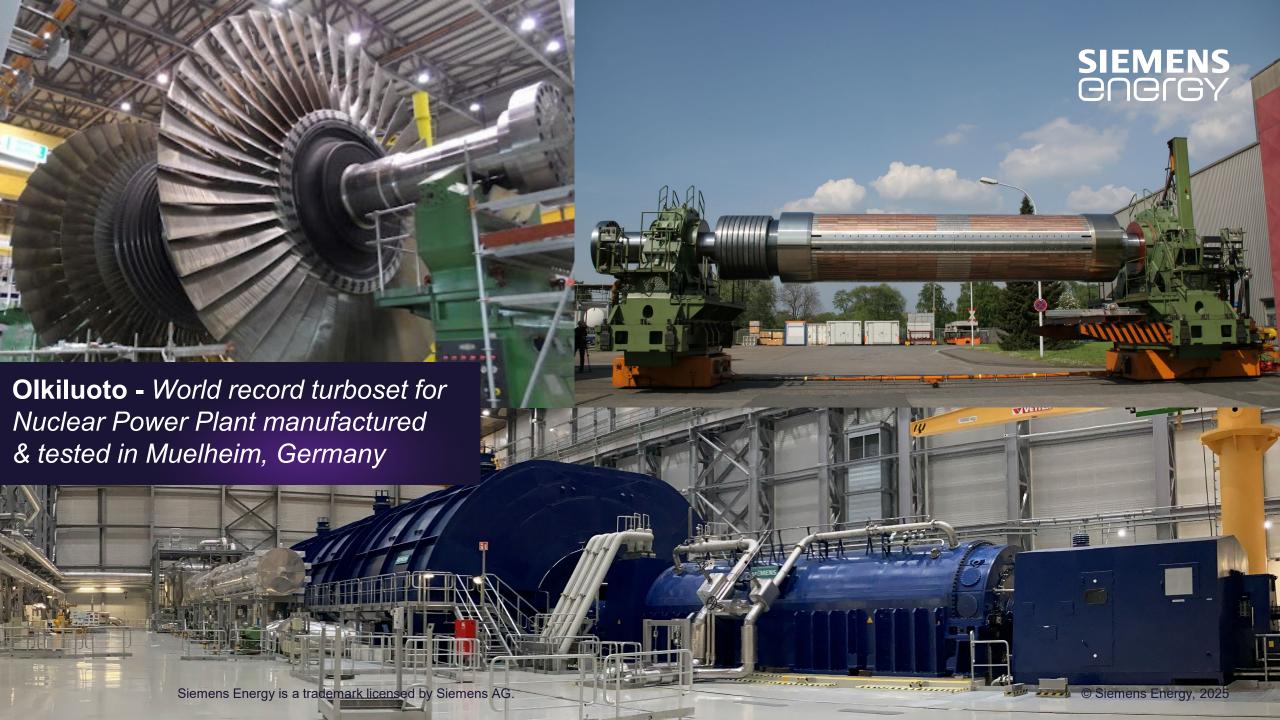


Our locational advantage









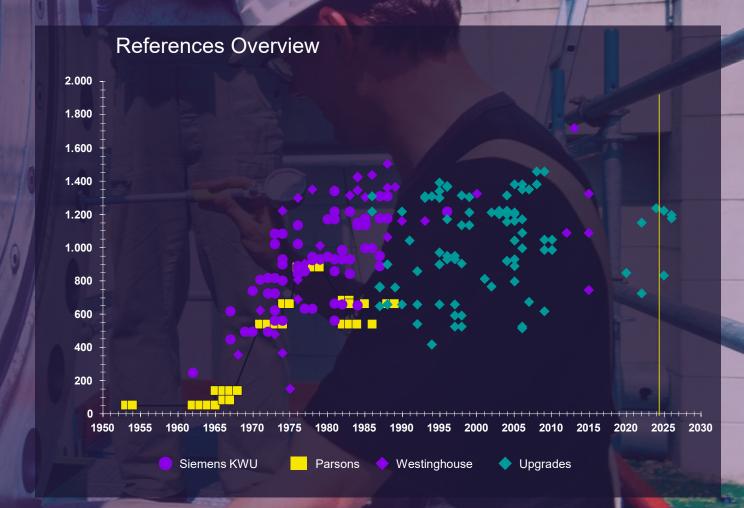
Our Nuclear Steam Turbine Know-How

SIEMENS Cherey

Maintained through Successful Retrofit Market Service

We secure our nuclear steam turbine expertise by effectively serving a demanding market in maintenance, modernizations and upgrades.

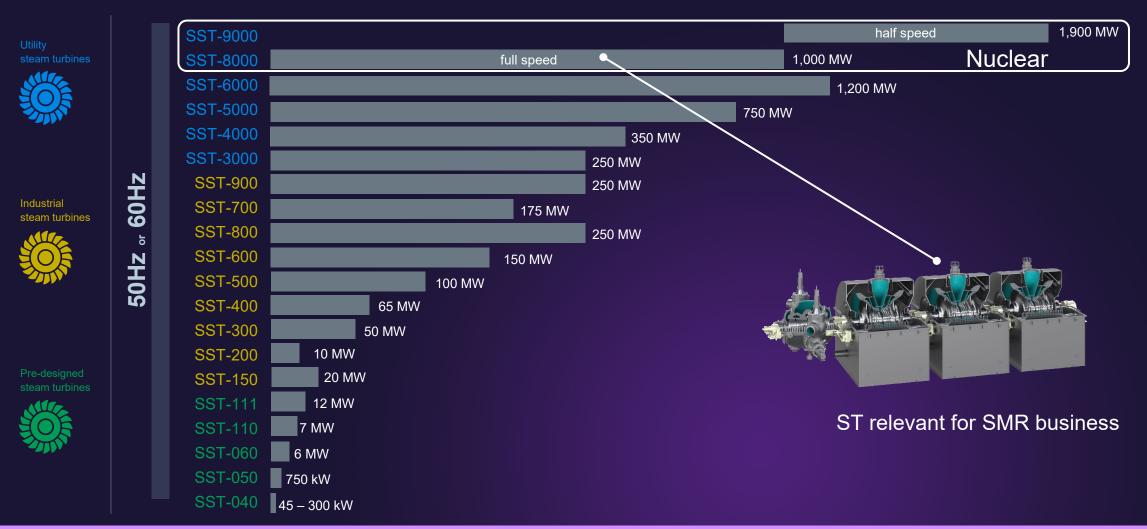
Proudly contributing to nuclear power plant efficiency and reliability worldwide, we are committed to excellence and customer satisfaction.



Siemens Steam Turbines Overview

Broad application range covered by Siemens Energy Portfolio





Efficiency and Reliability as key drivers

Gas Services offers strong regional service capabilities for fast response



7,400 Equipment installed

~ 26,500 **Employees**

> 700
Service project managers

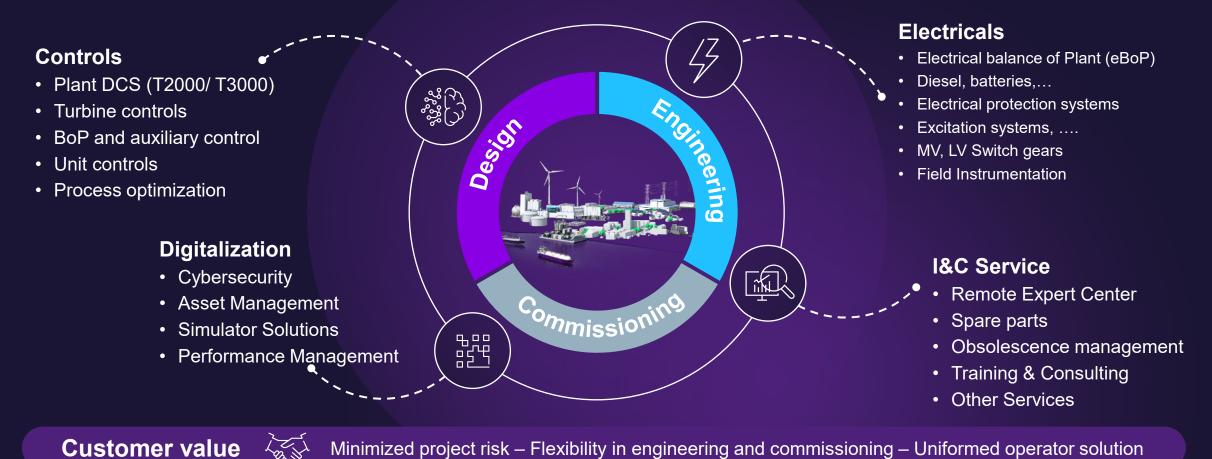
> 3,200 Field service staff



Controls & Digitalization We offer competitive advantages for our customers



Integrated controls, electrical and digital solutions and services



Siemens Energy is the only supplier of operational digital operational I&C for nuclear power plants, provable fully complying with European codes and standards



Our Priorities



We are the **only supplier** of digital operational l&C, **provable complying with European** codes & standards.



We strive for the **best economical** solution for our customers.



We **ensure safe and long-term operation** of nuclear power plants.



We care for the future and contribute to a safe, carbon free power generation

KPIs and Examples

Effectiveness of Paks II supply contract, signature of Sizewell C contract



Tianwan 1&2 with uninterrupted operation since >14 years w/o significant modernizations



15y SPPA-T2000 operation experience in nuclear without incident caused by SPPA-T2000



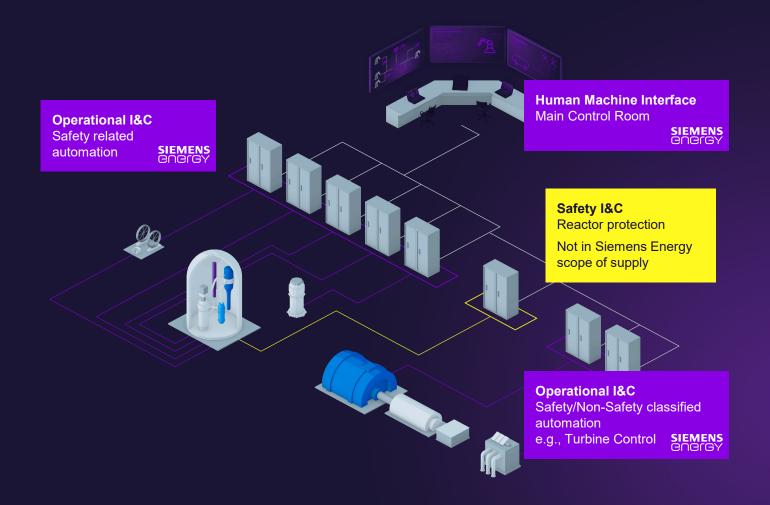
Tianwan 1 saved ~80 million tons of CO2



Nuclear Operational I&C Our platform covers the complete NPP Operation Level









Level 2

Human Machine Interface SPPA-T2000 OM690 Omnivise T3000 HMI



Level 1

Automation SPPA-T2000 AS620B Omnivise T3000 Automation



Level 0

Instrumentation Equipment

SPPA-T2000 is the only platform that is proven to meet all required European Nuclear Codes and Standards for DCS up to Class 2





- IAEA Safety Standards (Safety requirements and Safety Guides)
- IEC standards implement and detail the principles / safety aspects in IAEA code



International Standards for instrumentation and control systems important to safety

Design & Qualification

- IEC 61513 General requirements safety lifecycle I&C architecture and design Quality Management
- IEC 62138 Software and software development requirements
- IEC 60987 Hardware design requirements (class 2 only)
- IEC60780 Equipment qualification
- IEC60980 Seismic qualification
- IEC 62003 EMC testing

I&C Architecture

- IEC 60709 Separation
- IEC 62340 Coping with common cause failures (CCF)
- IEC 61226 Classification of Instrumentation & control functions
- IEC 60671 Surveillance testing

Control Rooms / HMI

- IEC 60964 Control room design
- IEC 60965 Supplementary control for *reactor shut* down
- IEC 61772 Application of visual display units
- IEC 61227 Control rooms Operator controls
- IEC 62241 Alarm functions and presentation

Cyber Security

- IEC 62645 Security programs for computer based systems
- IEC 62859 Coordinating safety and security

Obsolescence Mgmt.

- IEC 62402 Obsolescence management – application guide
- IEC 62342 Management of *Ageing*



AFCEN

founded by EDF and FRAMATOME (AREVA)

RCC-E, 2012, 6th edition French design and construction rules

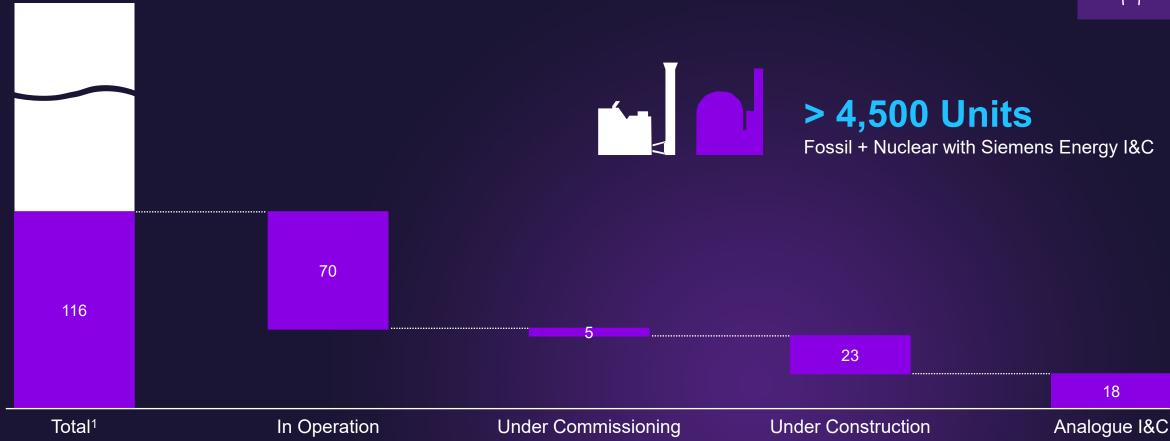
- A General and Quality requirements
- 3 Qualifications and approval
- C Functional system design
- D Installation
- E Parts of equipment
- MC Verification and testing methods

Siemens Energy's platform and process meets the European nuclear qualification requirements

Siemens Energy Operational I&C References 100% of recent Large Scale New Build NPPs in Europe and ~23% of Worldwide NPPs equipped with Siemens Energy I&C







1 Total < (In Operation + Under Commissioning + Under Construction) due to multi counting