



Siemens Taiwan Introduction

December 2019

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Siemens – Milestones of a 172-year history

SIEMENS
Ingenuity for life

1816 – 1892

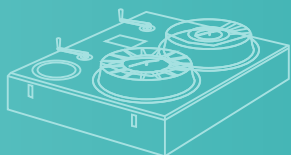
Company founder, visionary and inventor



Werner von Siemens

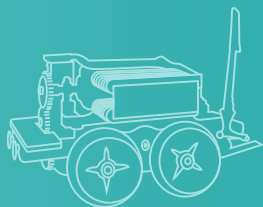
1847

Pointer telegraph lays the foundation of Siemens as a global company



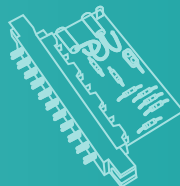
1879

World's first electric railway



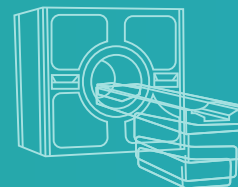
1959

SIMATIC makes Siemens a leader in automation technology



1983

First magnetic resonance scanner goes into operation



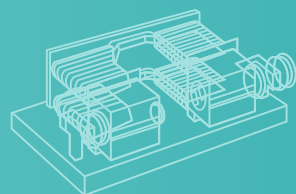
2012

Test operation of the world's largest rotor for offshore wind turbines



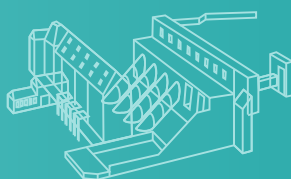
2018

Charter of Trust; a joint initiative for a secure digital world



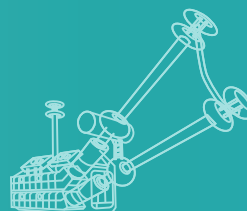
1866

The dynamo makes electricity part of everyday life



1925

Siemens electrifies the Irish Free State with a hydroelectric power plant



1975

Breakthrough of high-voltage direct current (HVDC) transmission



2010

TIA Portal takes automation a stage further



2016

MindSphere, the cloud-based operating system for the Internet of Things



2019

Start of first project for Siemensstadt 2.0

About Siemens

SIEMENS
Ingenuity for life

- Headquartered in Berlin and Munich, Germany
- Headed by CEO Joe Kaeser since August 2013
- Nearly 385,000 employees in over 200 countries
- Revenue of € 87 billion in FY 2019
- Net Income of € 5.6 billion in FY 2019
- #1 Most Sustainable Company by Corporate Knights in 2019 (Industrial conglomerates)
- One of the Most Sustainable Company by Dow Jones in 2019 (Industrial conglomerates)
- Aims to be climate neutral by 2030 (achieve net-zero carbon footprint)
- The B2B giant in Electrification, Automation & Digitalization

Strategic Direction and Positioning of Siemens



Megatrends challenges that are transforming our world



Digitalization



Globalization



Urbanization



Demographic change

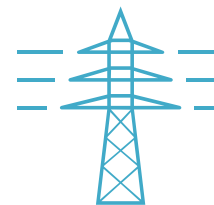


Climate change

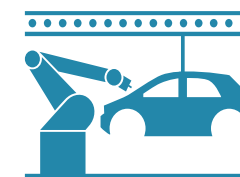
Trusted Technology Partner



Electrification



Automation



Digitalization



Sustainability Thought Leader

Siemens aims to be net carbon-neutral by 2030



CO₂ saving realized up to now

41%

of CO₂ emissions reduced since the launch of Siemens' CO₂ neutral program



Siemens Energy Efficiency Program

20 mil.

Euros savings expected annually from 2020 onwards as a result of investments in energy-efficiency projects



Green power for Siemens

60%

of the electricity consumption of our sites globally is covered by renewables



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Innovation – that’s how we shape the future

€ 5.7 bn

R&D expenditures¹

45,200

R&D employees²

Siemens is the European champion of patents

6,850

Inventions¹

3,750

Patent applications¹

¹ In FY 2019; continuing operations

² Averaged in FY 2019. With beginning of FY 2018, part time employees are included to the full extent

Siemens' Core Technologies for the Digital Future



Additive
Manufacturing

Autonomous
Robotics

Blockchain
Applications

Connected
(e)Mobility

Connectivity and
Edge Devices

Cybersecurity

Data Analytics,
Artificial Intelligence

Distributed
Energy Systems

Energy
Storage

Future of
Automation

Materials

Power Electronics

Simulation
and Digital Twin

Software Systems
and Processes



Data analysis



Artificial intelligence



Simulation tools



Cloud and platforms



Secure networking



Cyber security

Design

Operate

Service

IoT – Consulting & Integration

Siemens Software

Siemens Digital Services

MindSphere – the open IoT operating system

Digitally optimized automation

Digitally optimized electrification



Digital Twin (products and infrastructure)

Our digital portfolio

~1.4 million

connected devices and systems via MindSphere

~500

digital offerings

€10 bn

invested in digital companies in the past ten years

39,600

employees in digital jobs at Siemens

Top 10

Siemens is one of the top 10 software companies

About Siemens in Taiwan



- Earliest presence in 1955; officially established in 1989
- Strategic alliance with MOEA in 1994
- Headed by CEO Erdal Elver since July 2012
- **Green Systems Partner Award** (by MOEA) in 2012
- **Best Company to Work For** (by Taipei City Government) in 2013
- **Diversified Innovation Partner Award** (by MOEA) in 2014
- **Innovation Propeller Award** (by MOEA) in 2016
- **Innovative Application Partner Award** (by MOEA) in 2018
- **Global Corporate Sustainability Awards** (by TAISE) in 2018
- 700 Employees at 4 office sites in Taiwan

Our business activities have contributed to the development of Taiwan in many aspects

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- Around 20% of Taiwan's power capacity is generated by Siemens' equipment
- The island-wide power dispatch network uses Siemens' energy management system
- Assists TAIPEI 101 with energy-saving solutions, making it the world's tallest green building
- Equips 70% of the major semiconductor & TFT LCD manufacturers with automation solutions
- A leading supplier to Taiwan's rail transportation systems
- Siemens Healthineers (affiliate) leads in next-generation healthcare through trend-setting innovations
- Siemens Gamesa Renewable Energy (affiliate) erects the first two offshore wind turbines in Taiwan

Corporate Citizenship: Embracing our responsibility to society

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Discover the Power of
Digitalization –
The Digital Escape



Campus science education programs educating our next generation the concept of Digitalization applied in **Future of Manufacturing, Sustainable Energy and Intelligent Infrastructure** through simple coding missions and puzzle-solving via the use of smart digital devices.



Our portfolio matches Taiwan's 5+2 Innovative Industrial Plans and supports Taiwan's transformations



Siemens portfolio

Taiwan Government's innovative plans



Future of Manufacturing

Smart Machinery



next47 – innovation startup unit

Asia Silicon Valley



Sustainable Energy

Green Energy



Healthineers

Biomedicine



Machine Tools

National Defense and Aerospace

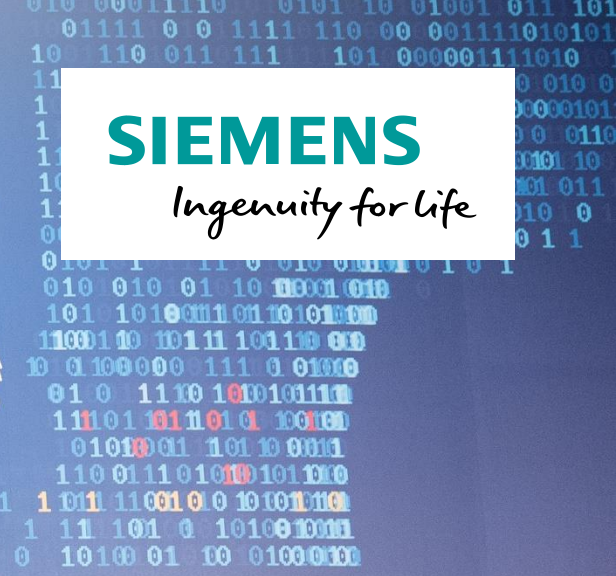


Smart 2019 臺灣永續峰會

以產業人工智慧共構數位臺灣

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Commits to assist Taiwan in its energy, industrial, infrastructure and digital transformations

Commits to bring in our CCPP technologies and experiences to provide stable & reliable energy supply

MindSphere

**Commits to support the Asian
Silicon Valley initiative with our
open, cloud-based IoT operating
system MindSphere**

Commits to bring in our deep domain know-how in City 4.0 to connect and digitalize critical infrastructure of Taiwan



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**Commits to bring in our
knowledge in Industrial A.I. to
support Taiwan's Digi+ initiative**

Thank you!

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