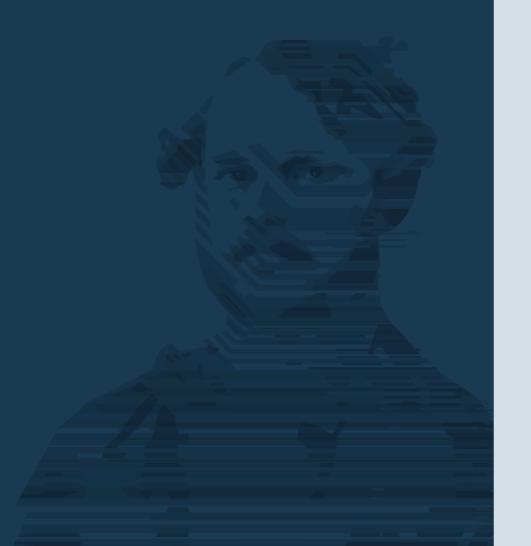


On the way to a digital future

"Always keep the distant future in mind – that's what matters most."

Werner von Siemens Founder of Siemens



)4

Ingenuity for life

06

Business to society

180

Innovations drive world progress

14

Electrification, automation, digitalization – our path forward

16

Leading the future of manufacturing

22

Enhancing sustainable energy

28

Developing intelligent infrastructure

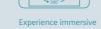








r device at Ex





Shaping a digital future

The world today is undergoing a fundamental paradigm shift. Our business environment is characterized with a high level of volatility, uncertainty, complexity and ambiguity. As the era of big data arrives, digitalization has become a game changer for the future of all industries. Disruptive and digital innovations as well as Internet-based business models are changing the lives of everyone.

China is now in a critical stage of transformation. The country is pushing forward "Made in China 2025" and "Belt and Road" initiatives for innovation-driven and shared development. Enterprises also need to upgrade and transform themselves in the digital age for shorter time-to-market, greater flexibility, higher efficiency and better quality. Such revolution requires support from partners - partners with expertise in electrification, automation and digitalization, partners who think long term and do not sidestep the challenges ahead. Siemens is that kind of partner.

More than 170 years ago, it was our company founder Werner von Siemens who first defined purpose of the company. He said: "Always keep the distant future in mind – that's what matters most." Since entering China 145 years ago, Siemens has remained true to that purpose by making contributions to a sustainable future of China. As the digitalization wave rises, we are ready to partner with China to jointly master opportunities and challenges of digitalization.

Here, you will experience an innovative, responsible and excellent Siemens that delivers its promises to customers, employees and the society.

Lothar Herrmann CEO Siemens Greater China

6. Morran



Business to society

Driving the economy

~ 162,000



Technical support for \sim 162,000 Chinese industrial enterprises by fiscal 2016

> 45%



> 45% of China's fossil power plants use Siemens' highly-efficient turbine technologies

> 1,000



> 1,000 Chinese SMEs upgraded their equipment through Siemens financial solutions by fiscal 2016

Improving quality of life





31 metro lines in 14 Chinese cities used Siemens signaling systems by 2016, which brought about efficient, reliable and convenient transportation for people

> 1/4



> 1/4 of China's mid and high-end buildings rely on Siemens fire alarm systems to ensure safety for people's lives and property

> 650



> 650 people per day in China go through heart surgery with the support of Siemens medical equipment

Developing local jobs and skills

> 31,000



> 31,000 jobs created in China. In 2014-2017, Siemens ranked as the No.1 most attractive employer by Universum in engineering and manufacturing industry among engineering students of China for four consecutive years

> 8,500



> 8,500 participations per year in trainings provided by Learning Campus China of Siemens

> 250



Offline Core Learning Program and > 250 courses on E-Learning Platform open for employees in China

Value-added for innovations and societal transformation

> 24,000



> 24,000 innovative engineering talents cultivated by 2017 via "Siemens Cup" China Intelligent Manufacturing Contest held for 11 years

> 25



Create level-playing field through Collective Action and Siemens Integrity Initiative with \sim 55 projects in > 25 countries

> 100



Cooperation with > 100 Chinese EPCs in > 60 overseas markets by 2016

Sustaining the environment

> 50%



> 50% of offshore wind turbines installed in 2014 and 2015 in China were manufactured with Siemens technology

18



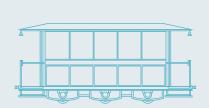
Contributed to construction of 18 HVDC lines in China by early 2017

> 20,000



> 20,000 children in nine cities across China benefited from Siemens I-Green Education Program by 2016

* All figures relate to fiscal 2016 (October 1, 2015 – September 30, 2016) unless stated otherwise





World's first electric streetcar built



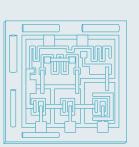
1939

Series production of electron microscope started



1958

World's first cardiac pacemaker installed



1965

Europe's first mass produced integrated circuit presented



ICE train with top speed of 300 km/h delivered



2009

World's first ± 800 kV HVDC line, Yunnan-Guangdong HVDC power transmission system, began operation



2016

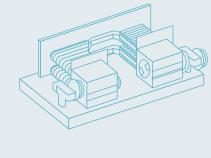
The cloud-based, open loT operating system
MindSphere launched

1866

1847

World's first pointer telegraph invented

> World's first dynamo machine invented



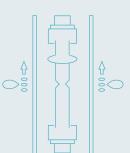
Germany's first automatic traffic signal system installed



1924

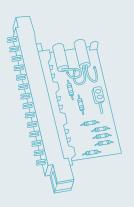
1953

High purity silicon production procedure developed



1958

SIMATIC controllers launched



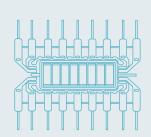
1974

Siemens' first computed tomography scanner launched



1988

The first 1-MB chips developed



2010

Engineering software platform TIA Portal introduced







World's first electric streetcar built



1939

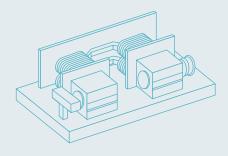
Series production of electron microscope started



World's first pointer telegraph invented

1866

World's first dynamo machine invented



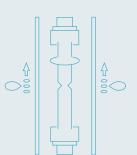
1924

Germany's first automatic traffic signal system installed



1953

High purity silicon production procedure developed



Innovations drive world progress

0

BE LOCAL, STAY OPEN, GO DIGITAL



Be local, stay open, go digital

As a cornerstone of Siemens' success, innovations have transformed our company from a small workshop into a leading global enterprise. In the future, innovations will continue to move us forward and enable us to lead the race of digitalization.

In China, we focus on digital innovations and combine our extensive network of innovation centers and global R&D systems with local business needs. We develop innovative products and solutions to fulfill the needs of local customers and breathe fresh life into transformation and upgrade of China's industries.

Meanwhile, Siemens spares no efforts to build an open innovation eco-system in China. We partner with local governments, leading enterprises, medium, small and micro-sized enterprises and start-ups, as well as universities and scientific research institutions to jointly develop future-oriented innovations and achieve win-win situation for all parties.



2 1



"Ideas alone have little value. An innovation's importance lies in its practical implementation."

Werner von Siemens

> 4,500

R&D researchers and engineers



> 11,000

Active patents and patent applications



20

R&D hubs



87

Universities and education organizations in R&D cooperation



- Siemens Corporate Technology China boasts extensive innovation network covering Beijing, Shanghai, Suzhou, Nanjing, Wuhan, Wuxi, Qingdao and Tianjin, etc.
- "Siemens China Innovation Center" Initiative develops digital innovations in areas including industrial big data analytics, industrial Internet of Things, connected city solutions, industrial cyber defense, digital enterprise, digital power plant and autonomous robotics, etc.
- Center of Knowledge Interchange (CKI) strategic ties established with Tsinghua University to promote cooperation on scientific and technical exchanges as well as talent cultivation
- The global separate unit next47 fosters disruptive ideas and accelerates development of new technologies
- * All figures relate to fiscal 2016 unless stated otherwise

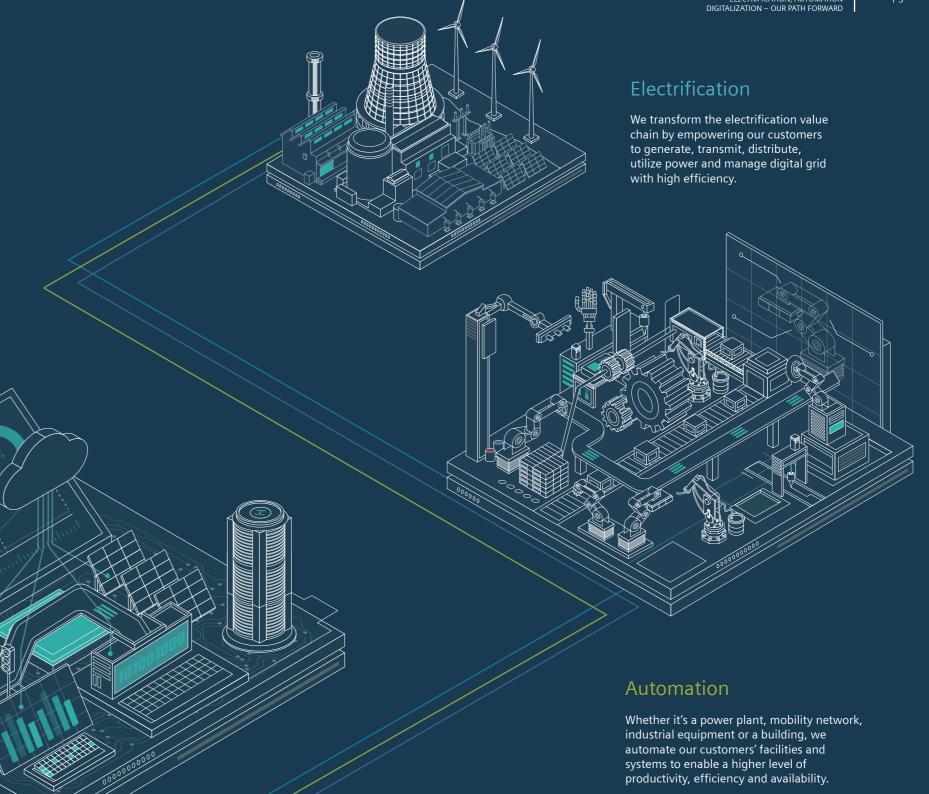
Electrification Automation Digitalization

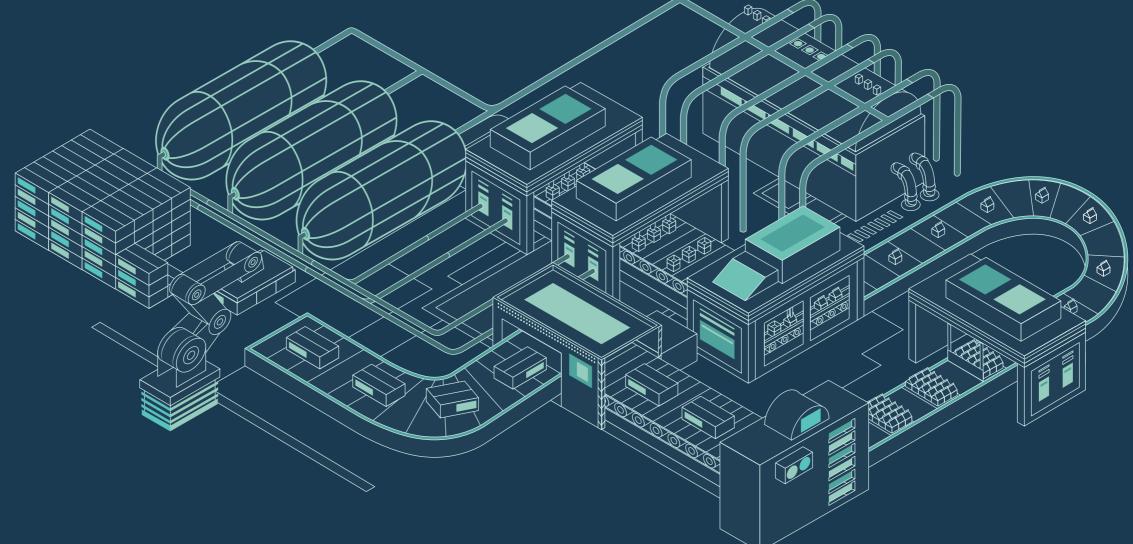
our path forward

On the way to Vision 2020, we focus on the growth fields along electrification, automation and digitalization. We make real what matters by setting the benchmark in the way we electrify, automate and digitalize the world around us.

Digitalizatior

With a combination of hardware, software, industry know-how and data, we push for mergence of the physical and virtual worlds to benefit customers from design and engineering, to production and operation as well as maintenance and service.





Leading the future of manufacturing

China's manufacturing industry is accelerating transformation and upgrade in line with the national strategy "Made in China 2025". The fast changing requirements of consumers are also placing manufacturers under growing pressures to achieve shorter time-to-market, greater flexibility, higher efficiency and better quality.

Our Digital Enterprise solutions encompass four cornerstones: industrial software and automation, industrial communication, industrial security and industrial services. By merging the physical and virtual worlds, our Digital Enterprise Suite for discrete industries and the solutions from Integrated Engineering to Integrated Operations for process industries digitalize and integrate all steps along the complete manufacturing lifecycle on the basis of "Digital Twin".

With MindSphere, our cloud-based, open operating system for the Internet of Things, we make it possible to generate customer value by collecting, analyzing and utilizing data. MindSphere also provides a solid foundation for applications and data-based services from Siemens and third-party providers, for example in the areas of predictive maintenance, energy data management and resource optimization.



The world's largest semi-submersible drilling rig BLUEWHALE I

"In our close cooperation over the past few years, Siemens has never let us down."

Hou Liping
Manager of the TCT Department
Yantai CIMC Raffles Offshore Ltd.

- Siemens' Power Package System ensures its efficient stable and safe operation
- 11% of savings in fuel consumption enabled by DP3 Closed Ring Power Solution
- 20% of CO₂ emission reduction



CO2 emission reduction savings in fuel consumption

Siemens is a trusted partner in close cooperation with China's manufacturers. In 1903, we provided a motor for Tsingtao Brewery. It can still work well after running for nearly 100 years.



145 西门子携手中国 Siemens in China Since 1872

The world's drilling rig

China's leading dairy maker - Mengniu





- Siemens' SIMATIC IT Unilab and Totally Integrated Automation systems help ensure food safety and improve productivity
- ~ 1,400 quality test methods digitally documented and calculated
- > 15% increase in quality test efficiency







Partnering with Ministry of Education for talent cultivation

- > 24,000 innovative engineering talents cultivated by 2017 via "Siemens Cup" China Intelligent Manufacturing Contest held for 11 years
- > 300 labs built together with educational organizations
- > 3,000 teachers trained

> 300

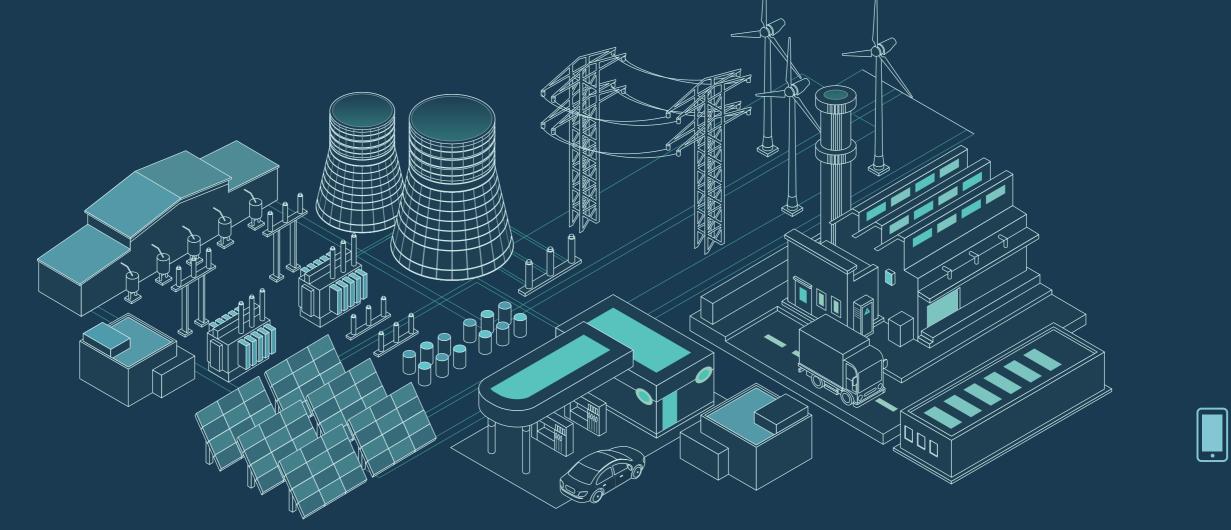
> 3,000

Siemens is a trusted partner in close cooperation with China's manufacturers. In 1903, we provided a motor for Tsingtao Brewery. It can still work well after running for nearly 100 years.



Since 1872

ENHANCING SUSTAINABLE



Enhancing sustainable energy

China's economic development creates increasing demands for sustainable energy. Meanwhile, the country is sparing no effort to reduce its CO₂ emissions per unit of GDP by 40%-45% by 2020 from a 2005 basis. China's Energy Development Initiative Strategic Action Plan (2014-2020) has set a clear goal to build a clean, efficient, safe and sustainable modern energy system. The constantly changing energy markets and development of renewable energy and distributed energy are bringing about both challenges and opportunities for the energy system.

With a strong position along the entire electrification value chain, Siemens helps address China's energy and climate challenges together with our customers and partners. By combining data and industry know-how, we help build the energy system of the future.

From fossil fuels to renewables, our power generation solutions ensure maximum efficiency. With innovative digitalization technologies, we help build digital power plant where data is leveraged to conduct predictive diagnosis, optimize plant assets and support decision-making. In addition, our energy management portfolio helps establish

an efficient and reliable power infrastructure covering power transmission, distribution and digital grid. In the field of energy utilization, our products and technologies in buildings, manufacturing and mobility stand out with high efficiency and low carbon footprint.

Distributed energy is witnessing fast development and growth in China. With advanced solutions in power generation, energy management and smart buildings, we can support Chinese customers to reach the target of developing distributed energy systems as well as reduce their operational costs and carbon emissions.



"With Siemens' high-efficiency power plant technology and its broad experience in constructing large-scale plants, we are able to fulfill the community's desire for improved environmental standards, provide reliable and reasonably-priced electricity to our customers and make contribution to a sustainable energy future for Hong Kong."

Director - Generation Engineering CLP Power Hong Ko

- The first H-class power plant in greater China, with 8000H gas turbine and other equipment from Siemens
- The plant will have an installed total capacity of 550 megawatts
- The plant to provide electricity for \sim 1 million households per month

550 MW plant's installed total capacity

million

households per month supplied with electricity Siemens' contribution to China's energy development dates back to over a century ago. In 1910, Yunnan Shilongba Hydropower Plant imported two hydro-electric generators from Siemens, marking the start of China's hydropower development.



Siemens in China Since 1872

Black Point in Hong Ko

The first H-class power p with 8000H gas turbine

The plant will have an in

• The plant to provide elec-

households per month

from Siemens

550 megawatts

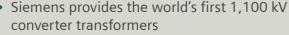
Changji-Guquan – world's first 1,100 kV HVDC line



- Siemens provides the world's first 1,100 kV converter transformers
- Transmission distance: 3,284 km
- Transmission capacity: 12 gigawatts



12 GW





One of China's highest buildings – Shanghai Tower

- Power consumption of the tower is equivalent to that of a small town with a population of 50,000
- · Siemens' advanced energy management and intelligent building systems make the tower more energy-efficient, safe and reliable
- Energy Automation System can help the tower save 5%-10% of energy

50,000

5%-10%

Siemens' contribution to China's energy development dates back to over a century ago. In 1910, Yunnan Shilongba Hydropower Plant imported two hydro-electric generators from Siemens, marking the start of China's hydropower development.



Since 1872

DEVELOPING INTELLIGENT



Developing intelligent infrastructure

China's urbanization process is expected to reach 60% by 2020. Infrastructure is a crucial driver of urban development. It moves people and goods, powers our lives and fuels economic growth. Yet Chinese big cities are coming under increasing strains. The challenges of traffic congestion, environmental pollution and resource waste have to be addressed.

City cluster development requires further improvement in infrastructure, such as strengthened mobility network, greater information connectivity and cleaner energy.

With unmatched engineering and data expertise, we help improve efficiency and capacity of information-enabled intelligent infrastructure to build digital cities, and make cities and city clusters more efficient, livable, resilient and sustainable.

With the most cutting-edge digital technologies, we ensure efficient, safe and environment-friendly passenger and freight transportation. Our integrated mobility solutions cover mainline transport, intercity transport, mass transit as well as road traffic.

Meanwhile, Siemens offers comprehensive portfolio of building automation and control systems, room automation, field devices and fire safety products. We ensure perfect room climate for building users, keep people and assets safe as well as reduce energy consumption and operation costs of buildings.

Moreover, we have the most comprehensive energy management portfolio from high-voltage transmission systems to medium and low-voltage distribution infrastructure and systems, and digital grid solutions, serving such sectors as utilities, manufacturing, infrastructure and buildings.





Since 1899 when Siemens built China's first tramline in Beijing, we have been providing strong support to China's infrastructure sector.





Zhuhai inte informatio

Passive House Technology Center at Qingdao Sino-German Ecopark

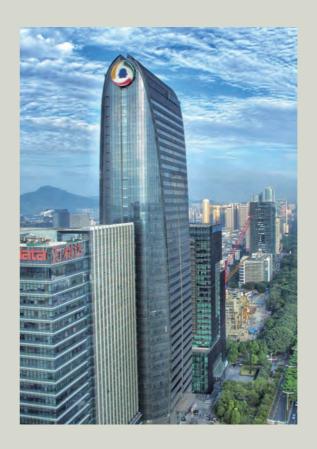




- Siemens' Building Automation System integrates subsystems into one platform to maximize energy efficiency
- Siemens products and systems optimize management of lighting, shading and HVAC systems
- The center saves > 90% of enery







Tencent data center

- Tencent data center stores data of > 1,000 PB (1PB=1,024 TB), more than that of the world's 15,000 largest libraries
- Siemens' Totally Integrated Power solutions ensure stable and safe power supply
- Chiller plant optimization solution from Siemens protects data center server to ensure smooth operation and maximum energy efficiency



> 1,000 PB Tencent data center data storage

Since 1899 when Siemens built China's first tramline in Beijing, we have been providing strong support to China's infrastructure sector.









We are engineers, scientists, sales personnel, designers or consultants, etc. We work in a global community, from shop floor to executive offices, all contributing to our products and solutions that benefit everyone.

We take on tough projects. We build infrastructures, energize the world, help industries run smoothly and create a digital tomorrow. We care about our people and train and develop them to master these challenges.

We are respectful, inclusive and diverse. Everyone has a variety of opportunities and everyone is treated in a fair way.



Talent acquisition



Career development



1847

Werner von Siemens founded Siemens & Halske

1899

China's first tramline built in Beijing, and the first trams produced for the country

1904

Siemens' first permanent office in China set up in Shanghai

1937

John Rabe, then Siemens representative in Nanjing, saved more than 250,000 lives from massacre

145 years in China

145 西门子携手中国 Siemens in China Since 1872

1872

The first pointer telegraph supplied to China, marking the start of China's modern telecommunications

1899

China's first power plant built in Beijing to generate energy to light a number of city districts and drive the tramline

1910

Yunnan Shilongba Hydropower Plant imported two hydro-electric generators from Siemens, marking the start of China's hydropower development

1985

Cooperation memorandum inked with China, the first of its kind among foreign enterprises in China. The memorandum was renewed in 2011 and 2016. The cooperation was deepened in 2017 in areas of innovation and in the application of digital technologies

1994

Siemens Ltd., China established, the first holding company formed by a foreign investor in China

2010

As a global partner of Expo Shanghai, Siemens supplied advanced technologies and solutions to help build a green Expo

2012

Siemens Employee Volunteer Association established to provide a volunteerism platform for employees, the company and the society, focusing on creating value for the society

2016

"Siemens China Innovation Center" Initiative launched to explore digital innovations

2017

Siemens' first Digitalization Experience Center in Asia-Pacific Region opened in Beijing

2006

Siemens China Corporate
Technology officially opened in
Beijing. It has become one of the
largest Siemens corporate R&D
bases outside Germany

2011

Cooperation memorandum signed with the Ministry of Education to jointly promote education of China's engineering talents. The memorandum was renewed in 2016

2013

Siemens' first digital factory in China began operation in Chengdu

2017

Continued strategic partnership with Chinese enterprises to jointly push forward intelligent manufacturing on their way toward "Made in China 2025" and Industrie 4.0





Siemens Ltd., China

No.7 Wangjing Zhonghuan Nanlu Chaoyang District, Beijing, P.R. China Company Hotline: 400 616 2020 Email: contact.slc@siemens.com

For further information on Siemens Ltd., China, please visit: **www.siemens.com.cn**

please visit. www.siemens.com.cn

For more stories of Siemens, please visit: www.siemens.com.cn/stories

Notice

The information provided in this brochure contains merely general descriptions or characteristics of the products, which in case of actual use may not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All designations used in this brochure may be trademarks or product names owned by Siemens AG or its supplier companies, the use of which by any third parties for their own purposes could violate the rights of the owners.

Article Number: DFCG-B80001-00-6CCN ©2017 by Siemens Ltd., China