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## ABB in China

ABB is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels.

ABB was formed in 1988, when the Swedish Asea and the Swiss BBC Brown Boveri merged under the name of ABB, headquartered in Zurich, Switzerland. With a history of excellence stretching back more than 130 years, ABB's success is driven by about 110,000 talented employees in over 100 countries.

ABB's relationship with China dates back to 1907, when it delivered a steam boiler to the country. After decades of fast development, ABB today has a full range of business activities in China, including R&D, manufacturing, sales and services, 28 local companies with 15,000 employees located in over 130 cities and online and offline channels across around 700 cities. ABB has invested more than US\$ 2.4 billion in China since 1992. China is ABB's second-largest market worldwide with more than 90% of sales from locally-made products, solutions and services.

### Driving the digital transformation of industries

ABB has been a pioneering leader in digitalization for more than 40 years, combining deep domain expertise with rich experience in connectivity. With its technology and business highly aligned with the focuses of China's "new infrastructure", ABB is making strategic presence in such key areas as digitalization, industrial Internet, artificial intelligence, smart manufacturing, smart transportation and smart energy infrastructure, and working proactively with its customers and partners to support China's industry upgrading and digital transformation.

Since ABB Ability™ was launched in China market in 2017, ABB has delivered customized digital solutions for local customers of many industries, helping them to plan, build and operate industrial operations with higher productivity and safety at lower costs. ABB has in-depth cooperation with the world's top technology enterprises to create and deliver leading IoT solutions through collaborative innovation. In 2019, ABB established the strategic partnership with Huawei to further grow industrial digital solutions in the Chinese market. This year, the successful release of ABB Ability™ platform on Huawei cloud will further support China's industrial digitalization.

### In China, for China and the World

ABB is a participant, witness and beneficiary of China's economic take-off. Following the long-term commitment of "In China, for China and the World", ABB has continuously invested in China, further optimizing its business footprint, and driving the localization of the whole value chain. In November 2018, ABB opened a major innovation and manufacturing hub in Xiamen to integrate its local businesses, representing a RMB 2 billion investment. In March 2020, ABB completed the acquisition of Chargedot Shanghai New Energy Technology Co. Ltd., further strengthening ABB's e-mobility portfolio in China. ABB's new robotics factory with investment of RMB 1 billion is under construction and expected to open in 2021, which will be ABB's most advanced, automated and flexible factory worldwide.

ABB has been at the forefront of every industrial revolution with its leading technologies throughout the history, promoting the evolution and development of many industries. In China, ABB regards



innovation as a key to keep its long-term competitive edge and has continuously improved its local R&D capabilities. In recent years, the China R&D teams have led or participated in the research and development of smart sensors, dual-arm robot YuMi®, i-Jia smart home system, Terra 63Z DC fast charger and HDS water-cooled AC synchronous permanent magnet servo motor, ABB Ability™ NB-IoT solution for measurement device and so on. In 2019, the local R&D team filed 21% more PCT and invention patents than in the previous year.

The Belt and Road initiative has created vast new opportunities for both Chinese and foreign companies. With a business network covering more than 100 countries around the world, and abundant overseas project management experience, ABB has actively supported Chinese enterprises to explore overseas market and enhance competitiveness around the world.

ABB's technology strength and innovation capabilities in electrification and automation have been highly recognized by the industry. In 2020, five ABB local companies were named "China Top 100 Electric Companies" and honored with 9 awards; ABB also won seven awards at CAIAC 2020 including the award of "China Top Automation Enterprise" and six industry awards at CAIMRS 2020.

## Energizing the transformation of society for a sustainable future

ABB has a clear commitment to society. As a multinational company rooted in China market, ABB has participated in many key national projects and is also deeply engaged in local communities. ABB Group executives have been members of mayor's or governor's advisors in Beijing, Shanghai, Chongqing and Guangdong, proposing forward-looking advices to support China's economic transformation and sustainable growth.

ABB participate in various charity activities, such as supporting education, caring for senior citizens, planting trees, volunteering in communities, and hosting electrical safety seminars. In response to the outbreak of COVID-19, ABB took immediate action to participate in key epidemic prevention and control projects, provided timely assistance to enable the safe operation of critical infrastructure, and donated money and face masks to the medical front line. In the field of education, ABB has donated about RMB 16 million accumulatively via ABB-New Great Wall Fund, 16 years in a row, benefiting nearly 5,000 students from 46 universities and colleges. ABB is also actively strengthening cooperation with universities and supporting talent cultivation by hosting the annual ABB Cup Innovation Contest.

Technology makes life better. ABB embeds sustainability in everything they do to promote protect the environment and drive sustainable development. In 2019, ABB reduced its greenhouse gas emissions by 41 percent compared to 2013, exceeding the 40 percent target that was set for 2020. ABB's eco-efficiency portfolio, which enables sustainable smart cities, industries and transport systems to mitigate climate change and conserve non-renewable resources, accounted for 57 percent of total revenues in 2019. The company is on track to reach 60 percent of revenues by the end of 2020. ABB's long-term ambition is to achieve fully carbon-neutral.

Today, ABB has unrivalled expertise in sustainable transport with more than 14,000 fast-charging points in over 80 countries worldwide. As title partner of ABB Formula E, the fully electric international FIA motorsport class, ABB is pushing the boundaries of e-mobility to contribute to a sustainable future together.



## Milestones in China

- 1974 Set up first China office in Hong Kong
- 1979 Set up permanent office in Beijing
- 1992 Established first manufacturing joint venture in China
- 1994 Moved ABB China's headquarters to Beijing
- 1995 Established holding company – ABB (China) Ltd.
- 2004 Won major Three Gorges orders
- 2005 Set up global research centers in Beijing & Shanghai
- 2006 Moved global Robotics center to China
- 2006-2008 Contributed to over 30 Beijing Olympics projects
- 2009 Launched the first locally developed robot – IRB 120
- 2010 Started e-commerce business in China
- 2011 Set up global marine propulsion system base in Shanghai
- 2012 Launched ABB University Innovation Contest
- 2014 Announced investment of RMB2 billion to set up an industrial hub in Xiamen
- 2017 Launched industry-leading digital solutions offering ABB Ability™ in China
- 2018 Announced investment to build ABB's most advanced robotics factory in Shanghai
- 2019 ABB Formula E Championship held in Hong Kong & Sanya
- 2020 Completed the acquisition of Chargedot Shanghai New Energy Technology Co., Ltd.

## Contact us:

ABB (China) Ltd.  
Universal Plaza  
10 Jiuxianqiao Lu  
Chaoyang District, Beijing  
100015  
Tel: 010 8456 6688  
Fax: 010 6423 1613  
[www.abb.com.cn](http://www.abb.com.cn)



Wechat: [abb\\_in\\_china](#)