

Siemens and Municipal Government of Nanjing jointly release the “Zero-Carbon Sustainability Report”

- **Siemens analytical tools for sustainable urban development used for evaluation of energy-saving and emission-reduction technologies and quantitative performance analysis**
- **Providing Nanjing with efficient and workable energy-saving and emission-reduction solutions and technology portfolio**
- **Helping Nanjing deliver its “Zero-Carbon Sustainability Vision 2020”**

Recently, Siemens Global Center of Competence Cities and Municipal Government of Nanjing jointly released the “Zero-Carbon Sustainability Report of Nanjing” in Munich, Germany. The report was created to provide cost-effective and workable implementation plans for sustainable development of Nanjing through Siemens’ global technical expertise, helping the city deliver its “Zero-Carbon Sustainability Vision 2020”, in response to the national target to peak CO₂ emission by 2030. “As a global company with a comprehensive city and environmental portfolio, Siemens has always been committed to addressing daunting challenges during urban development. We sincerely appreciate the strong focus and decisive actions of Municipal Government of Nanjing on sustainable urban development, which is the first Asian city to deploy Siemens analytical tools for sustainable urban development. This report serves as a solid enabler for Nanjing to implement green development strategies and deliver long-term sustainable urban development,” said Mr. Pedro Miranda, Head of Siemens Global Center of Competence Cities.

Nanjing, one of the Chinese cities with the greatest potential, puts combating climate change and realizing green development onto its highest agenda. As a part of this ongoing effort, the analytical tools for sustainable urban development developed by Siemens Global Center of Competence Cities was leveraged to evaluate more than 70 energy-saving and emission-reduction technologies in such fields as energy, building, mobility and industry available for cities, and quantify their effects in terms of CO₂ emission, improvement of air quality, infrastructure investment and employment. “Green and low-carbon urban development is an undeviating road for Nanjing. I firmly believe that the sustainability report created through close collaborations between Siemens and Nanjing will provide a very valuable reference on sustainable urban development to not only Nanjing, but also other cities of China.” Huang Lan, deputy mayor of Nanjing, said at the release ceremony.

Based on a holistic review and examination of the current emissions in Nanjing, the report envisions Nanjing’s 2020 energy-saving and emission-reduction targets in the four fields of building, mobility, energy and industry. Benchmarked against data from Siemens’ best practice and typical cases worldwide, the report uses relevant models to analyze cost-effect of different technologies for energy-saving and emission-reduction, providing suitable technology portfolio and efficient and workable energy-saving & emission-reduction solutions for administrators of Nanjing City. Major findings and suggestions of the report are as follows:

- On the premise that economic development and employment are not compromised, city administrators of Nanjing may leverage appropriate technologies to realize emission reduction, and strengthen the incentive and punishment policies.
- Industrial restructuring shall be carried out in steps, and verification of emission indicators of energy-demanding companies conducted in a timely manner. Carbon trading mechanism shall be established and carbon emission reduction efforts promoted.

- Focus shall be put on improvement of industrial system efficiency, efficiency upgrade of old power plants, deployment of distributed energy systems and smart grids, wide promotion of efficient lighting, heat-insulated building envelopes, smart building, continuous expansion of rail transit network, intelligent transportation and congestion charging, as well as promotion of electronic vehicles and its relevant sharing network, to empower the local energy-saving and emission-reduction green industries.

To address various challenges for urbanization in different regions across the globe in a more efficient way, Siemens set up the Global Center of Competence Cities in London in 2012, and the regional Center of Competence Cities for Asia and America market respectively in Shanghai and New York, to provide solutions and suggestions for sustainable urban development.

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About Siemens in China:

Siemens AG, founded in 1847, is a global technology powerhouse active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient and resource-saving technologies, Siemens has leading positions in offshore wind turbine construction, combined cycle turbines for power generation, power transmission solutions, infrastructure solutions, automation, drive and software solutions, as well as medical imaging equipment and laboratory diagnostics. For more than 140 years since its entering into China in 1872, Siemens has pioneered cooperation with the country with its solutions, technologies and products, and has been known in the country for its quality and reliability, technological excellence and innovation. In Fiscal Year 2014 (October 1, 2013– September 30, 2014), Siemens generated revenue of €6.44 billion in China, with more than 32,000 employees. Siemens has become an integral part of the Chinese economy and society, and continues to partner with the country to address her pursuit of sustainable development.