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Zero Carbon Growth

A Sustainable Development Vision
of Nanjing

Siemens Cities Center of Competence Asia

“Zero Carbon Growth” – A sustainable development vision of Nanjing

By taking decisive actions and implementing effective technical levers, it will be possible for Nanjing to achieve “Zero Carbon Growth” by 2020. Total CO₂ emission of the city will be lower than that of 2012 and air quality can also be improved consistently.

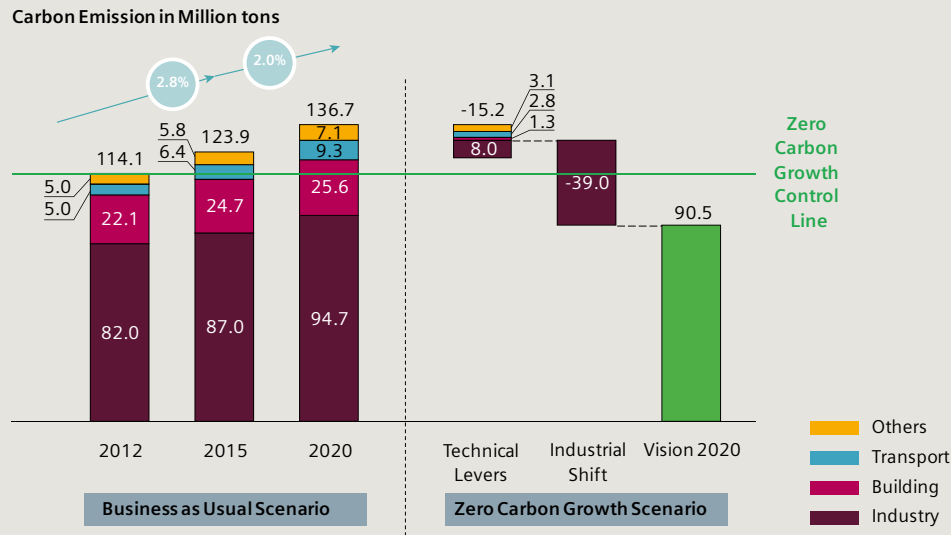


Figure 1: “Zero Carbon Growth” Vision for Nanjing

Action Plan

- Further optimize industrial structure in the city to match the needs of social and economic development;
- Enhance institutional framework for emission reduction, such as energy monitoring and verification of key enterprises, establishment of carbon trading scheme;
- Fully leverage technology levers to reduce emission with enhanced regulations, focusing on:
 - Industrial energy-saving
 - Coal-fired power plant retrofitting
 - Distributed energy supply (CCHP)
 - Green and intelligent building (building automation, efficient lighting, building envelop etc.)
 - New metro lines, intelligent traffic management and e-vehicles

Background

Considering future economic development and transition, population growth, progress in technology deployment and changes in consuming-style, it is predicted that the GHG emission in Nanjing will keep increasing but the growth rate will be slow down. Even though, 136.7 million tons GHG emission will be emitted from the city in 2020, which is almost 20% more than its emission level in 2012.

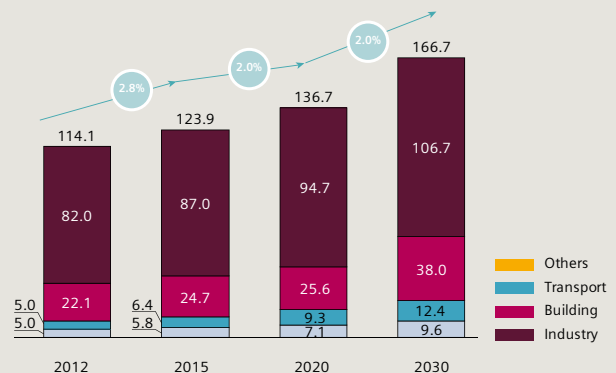


Figure 2: Forecast of energy consumption in BaU scenario