

中国绿建委对碳达峰、碳中和的工作构思

China Green Building Council's Conception of Carbon Dioxide Emission & Carbon Neutrality

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2020年9月22日，中国国家主席习近平在第七十五届联大一般性辩论会上提出“中国力争于2030年前实现二氧化碳排放达峰，2060年实现碳中和”的气候目标（简称“一达峰，二中和”目标），为城市继续推进碳排放和空气质量管理提供了强大的驱动力。

On September 22, 2020, at the General Debate of the 75th Session of the United Nations General Assembly, Xi Jinping, president of the People's Republic of China, pledged that China “aim(ed) to have CO₂ emissions peak before 2030 and achieve carbon neutrality before 2060” (abbreviated as “first carbon peak, then carbon neutrality”) to provide driving forces for managing CO₂ emissions and air quality in cities.

碳排放的理论公式

Formula of CO₂ Emission

日本学者茅阳-- (Kaya Yoichi) 提出

Proposed by Japanese scholar Kaya Yoichi

它揭示出，一个国家或地区碳排放的推动力主要是四个因素。

The formula reveals four main factors of CO₂ emission.

$$\text{CO}_2 = P \times (\text{GDP}/P) \times (\text{E}/\text{GDP}) \times (\text{CO}_2/\text{E})$$

GDP/P: 人均GDP per capita GDP

P: 人口 population

E/GDP: 单位GDP的能源用量 (能源强度) energy intensity of economic activity

CO₂/E: 单位能源用量的碳排放量 (碳强度) carbon intensity of energy

碳达峰理论公式

Formula of CO₂ Emissions Peak

碳达峰指标=GDP增速-单位GDP能耗的降低-单位能耗碳排放量的降低

CO₂ Emissions Peak index = GDP growth - reduction of energy consumption per unit of GDP - reduction of CO₂ emissions per unit of energy consumption

>0 则碳排放总量持续增长

>0 Total CO₂ emissions increase

=0 则碳排放达峰

=0 Total CO₂ emissions reach peak

<0 则碳排放总量持续下降

<0 Total CO₂ emissions decrease

习近平主持召开中央财经委员会第九次会议

Xi Jinping presided over the Ninth Meeting of the Central Committee on Finance and Economics

今后5年，碳达峰重点工作这在能源体系、重点行业、绿色低碳技术、绿色低碳政策和市场体系、绿色低碳生活、生态碳汇能力、国际合作七个方面。

In the next five years, the key work of CO₂ Emissions Peak should focus on seven aspects: energy system, key industries, low-carbon technology, low-carbon policy and market system, low-carbon life, geologic carbon sequestration and international cooperation.

绿建委的双碳工作规划

China Green Building Council's plans for achieving the two goals

绿建委在重点省市编写“本地区绿色低碳建筑技术要点”的基础上，撰写全国的绿色低碳建筑技术白皮书。

Composing “regional green and low-carbon building technology” for key provinces and cities, and then compiling national white paper on green and low-carbon building technology.

绿建委的双碳工作规划

China Green Building Council's plans for achieving the two goals

绿建委组织专家对青少年开展绿色低碳科普教育，分小学、中学、大学三个层次，在国内东部地区下半年率先展开。只有人民大众逐步树立绿色低碳的理念，国家才能扎实地推进绿色低碳发展。

Conducting green and low-carbon popular science education among teenagers in primary school, middle school and university levels. The plan will be first carried out in China's eastern areas in the second half of this year. As our people understand the green and low-carbon conceptions, our country can continuously and solidly promote the green and low-carbon development.

绿建委的双碳工作规划

China Green Building Council's plans for achieving the two goals

绿建委组织下属机构“立体绿化学组”开展生态固碳的调研工作，年末撰写“生态碳汇的可行性报告”。

Organizing its affiliate “Vertical Planting Group” to carry out researches on geologic carbon sequestration and compile “Feasibility Report of Geologic Carbon Sequestration” at the end of this year.

绿建委的双碳工作规划

China Green Building Council's plans for achieving the two goals

选择东部经济发达地区和西南可再生能源发达地区的二个城市，探索率先达峰的典范，摸索相关的方针政策和技术手段。目前已落实广州市的碳达峰途径探索，由绿建委的专家队伍与当地的专家队伍联手进行。

Selecting two cities, one in developed eastern part and the other in southwestern part where renewable energy is developed, to study their experiences in achieving CO₂ Emissions Peak, and explore policies and technologies. Currently, a joint team with experts from our side and Guangzhou has set to explore ways Guangzhou employed.

绿建委的双碳工作规划

China Green Building Council's plans for achieving the two goals

争取选择南方和北方各一幢大型公共建筑，开展碳交易的实施工作。

Planning to choose two large public buildings, one in the northern part and the other in the southern part, for carbon trading.

绿建委的双碳工作规划

China Green Building Council's plans for achieving the two goals

积极开展国际合作，已与美国的**Cornell**大学中国中心与法国绿建委多次洽谈，讨论双方碳达峰合作研究课题及项目实施。

Carrying out international cooperation. We have held rounds of talks with Cornell University China Center and the French Green Building Council about cooperative researches on CO₂ emissions peak, and implementation of projects.

谢谢

Thanks for your time!

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