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可持续城市能源规划与低碳城镇化

Sustainable City Energy Planning and Low-carbon Urbanization

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可持续城市、低碳城镇化相关概念
Concepts

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可持续城市Sustainable city

概念：指经济增长、社会公平、具有更高的生活质量和更好的环境的城市。

Refers to the economic growth, social equity, with higher quality of life and a better environment in the city.

低碳城镇化Low-carbon urbanization

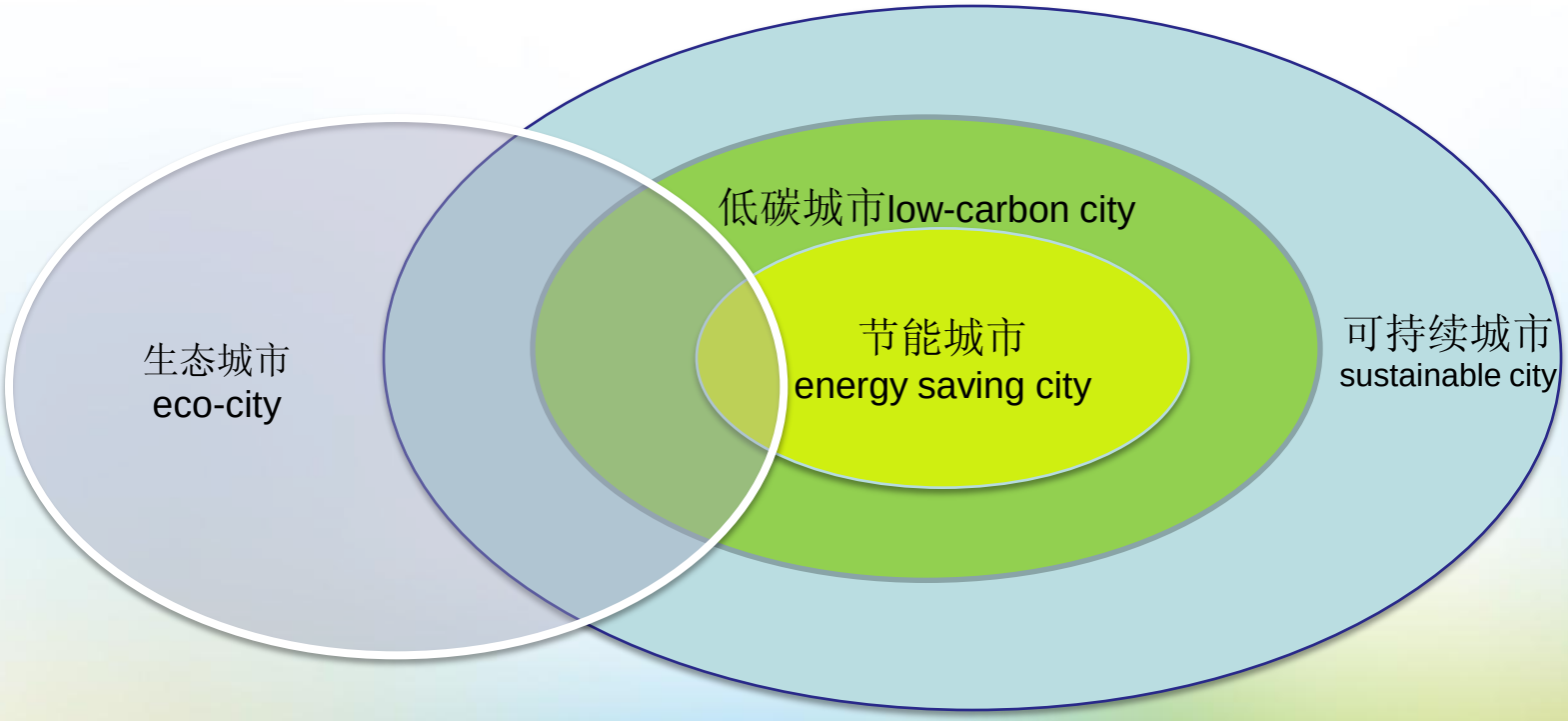
概念： 用低碳经济理念来引领城镇化,即低碳城镇化,就是要在城镇化进程中以低能耗、低污染、低排放、高效率、高产出为特征来进行低碳城市的规划设计与建设。

Low-carbon urbanization means that with a low-carbon economy concept to guide urbanization, in the process of urbanization with low power consumption, low pollution, low-emission, high efficiency, high output as the characteristics to conduct low-carbon urban planning, designing and building.

可持续城市、低碳城镇化相关概念
Concepts

低碳城市与可持续城市及相关概念的相互关系

The relationship between low-carbon city and sustainable city



可持续城市能源规划的内涵
The Connation of Sustainable City Energy Planning

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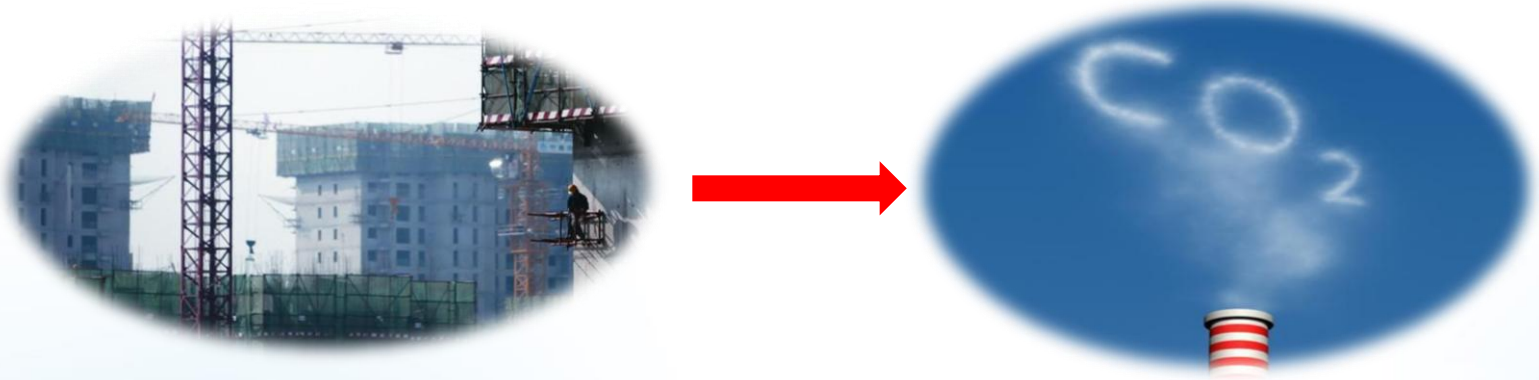
中国城镇化与碳排放Urbanization and carbon emission



- 我国城镇化正处于快速发展的进程中，并且这种态势还将会保持一段较长时间。China's urbanization is in the process of rapid development, and this trend will remain for a longer period.
- 生产、建设性能耗和碳排放是广大城镇能耗和碳排放快速增长的主要原因，并占到了全国城镇总能耗和碳排放的80-90%。The majority of urban energy consumption and carbon emission getting rapid growth are due to their production and construction, and accounting for 80-90% of national urban energy consumption and carbon emission.
- 在此背景下，中国城镇化应走低碳城镇化路线，并应进行可持续能源规划。At the background, china's urbanization should be low-carbon urbanization, and implement sustainable energy planning.

可持续城市能源规划与低碳城镇化
Sustainable City Energy Planning and Low-carbon Urbanization

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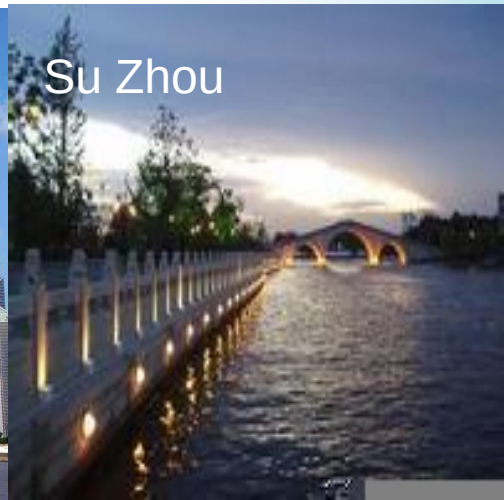
- 中国低碳城镇发展进入全国试点阶段Low-carbon urban development in China is in pilot period
  - 第一批低碳试点城市：天津、重庆、深圳、厦门、杭州、南昌、贵阳、保定（8个） The first batch of national pilot low-carbon cities: Tianjin, Chongqing,Shenzhen,Xiamen,Hangzhou,Nanchang,Guiyang,Baoding(8)
  - 第二批低碳试点城市：北京、上海、石家庄、秦皇岛、苏州、淮安、镇江、宁波、温州等（27个）The second batch of national pilot low-carbon cities: Beijing, Shanghai,Shijiazhuang,Qinhuangdao,Suzhou,Huaian,Zhenjiang, Ningbo,Wenzhou…(27)



可持续城市能源规划要点

Essential of sustainable city energy planning

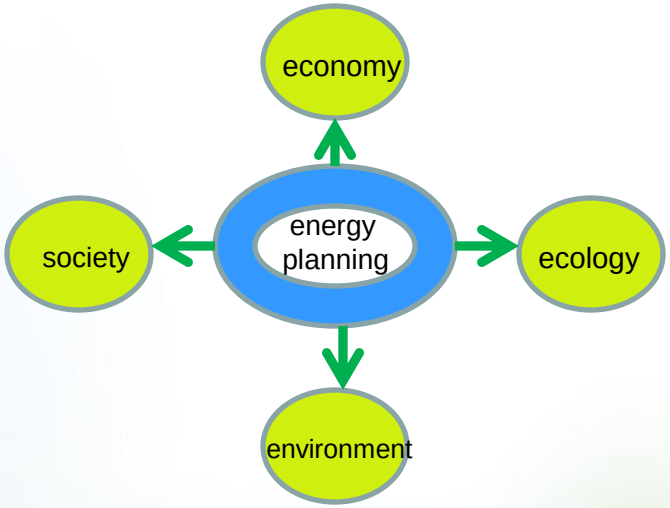
- （1）构建可持续城市能源指标体系：衡量能源系统，指导能源规划

  Building energy index system for sustainable city: measure energy system, guide energy planning

一级指标	二级指标	三级指标
城市能源可持续发展指标	驱动力指标	人均GDP
		人口密度
	压力指标	人均能源消耗量状态指标
	状态指标	人均可供消消费的能源量
		清洁能源使用率
		可再生能源比重
	影响指标	基础设施投融资
		GDP总量
	响应指标	能源建设运行管理

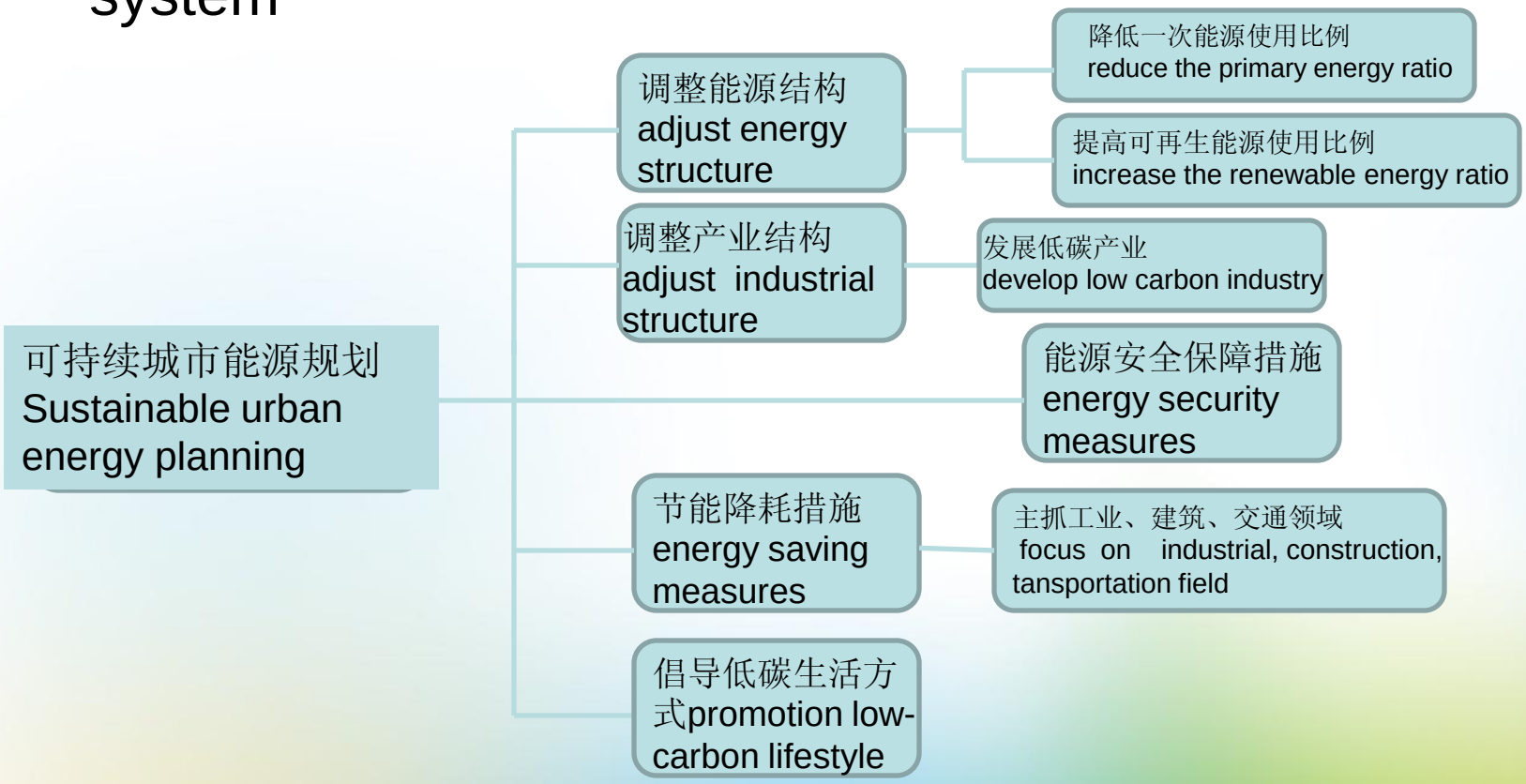
可持续城市能源规划要点 Essential of sustainable city energy planning

- （2）可持续城市能源规划是一个多目标、多价值决策过程，需要综合统筹（经济、社会、生态、环境）。Sustainable energy planning requires integrating comprehensive factors :economic, social, ecological, environmental.



- （3）注重城市能源供应可持续的同时，还应注重提高低碳能源使用比例。Improving the utilize proportion of low-carbon energy should get the same value with sustainable urban energy supply.

- 可持续城市能源规划How to plan the sustainable energy system



目前能源规划现状Current status of energy planning

1、多从能源部门行业角度出发，没有综合统筹城市经济、居民生活水平、生态环境等因素的影响；

Usually viewed from energy department, did not integrate urban economy, living standards, ecologic environment and other factors;

2、注重能源系统可持续化的同时，没有重视能源低碳化的转变;

Made much of energy system sustainable, but not value the low-carbon energy transition;

3、没有重视与城镇体系的空间结构相结合

Did no value the combination of energy planning and spatial structure of urban system.

几点建议Suggestions

- 低碳城镇化的可持续能源规划sustainable energy planning for low-carbon urbanization

1、能源规划应结合城镇开发规划同步制定 Energy planning should be combined with the urban development planning and synchronous planning.

2、应比常规的能源规划设立更优先的战略目标 Should establish a higher priority strategic objectives than conventional energy planning.

3、应与城镇体系的空间布局结构相结合 Should combine with the spatial layout of the urban system.

4、应注重低碳规划、低碳产业、低碳生活、低碳观念等低碳因素Pay attention to low-carbon factors.

5、应加强生态、环保理念在能源规划中的地位Should strengthen the status of ecological and environmental concept in the energy planning.

6、应考虑进城农民的就业和他们对能源品级（清洁能源）的接受度Should consider the employment of migrant farmers and their acceptance of energy grade (clean energy).

Thank you !

低碳地球　　护佑未来
A low-carbon earth to protect our future