



A Collection of Primary Tools



Compact Urban Development

Tool CUD 4: Eco-low carbon urban planning methodology.

What this tool does:

The eco-low carbon (ELC) urban planning methodology was prepared with support from China's Ministry of Housing and Urban Rural Development (MOHURD) and co-funding from the UK's Foreign and Commonwealth Office (FCO) Prosperity Fund. Preparation of the methodology was led by European consultants in close collaboration with the China Society for Urban Studies (CSUS). Based on both international and Chinese ELC urban planning best practice, the methodology is aimed at providing clear, practical guidance for ELC urban planning in China.

China's National New Urbanization Plan (2014-2020) issued in March 2014 emphasizes the importance of sustainable development and sets out a clear vision of green eco-low carbon smart development. The process and outcome of urban development is to be changed to create new cities that are resource efficient, green and healthy places people want to live in. This means transforming and evolving the whole urban form – the transport systems and street layouts, the building forms and services, the green and public spaces and the energy infrastructure. The eco-low carbon urban planning methodology that was developed by MOHURD to plan cities that meet the aspirations of the New Urbanization Plan.

How does it work:

The principle of the ELC approach is to follow step by step the traditional Chinese Planning process and then at each step to suggest the data, analysis and techniques that can be incorporated to the plan that will change the design from a conventional to a low carbon / resource efficient solution. It then sets out the communications for the approval process to get outputs from this new approach accepted at the different administrative levels of government as required. The technical, social and economic factors related to each area are described to help the planner to prepare and get approved a feasible planning application. Consideration is also given to the practicalities of the implementation phase, how the plan will be taken to detailed design how the project will be financed, constructed and finally its performance monitored.



Process: This ELC urban planning approach can be broken down into 6 stepsⁱ

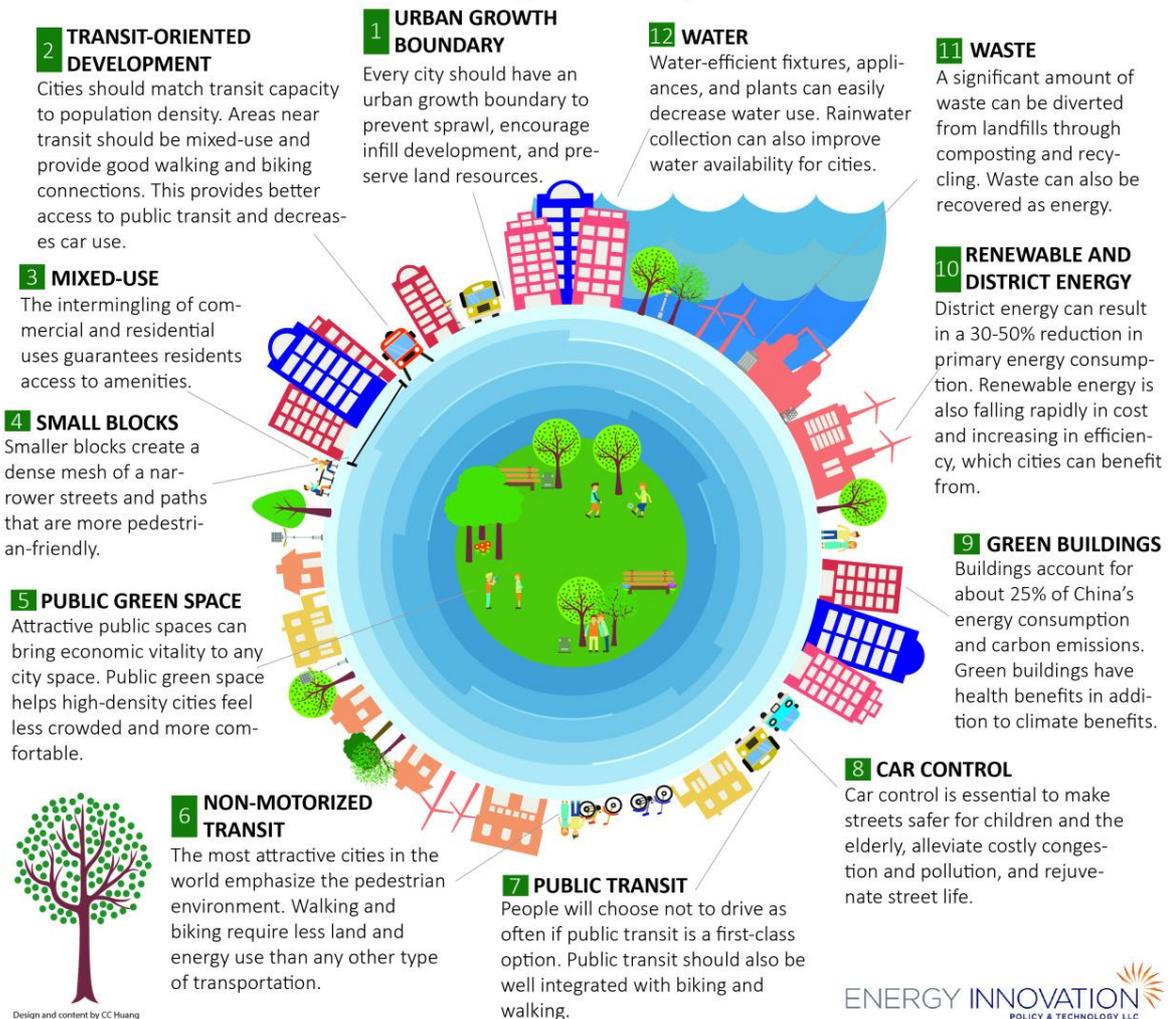
- STEP 1: Socio-Economic and Industrial Development Analysis
- STEP 2: Background Understanding and Eco-security Pattern
- STEP 3: Development Strategy Formulation
- STEP 4: Creating the Plan
- STEP 5: Detailing Urban Form
- STEP 6: Financing Implementation and Monitoring

Designing Green Cities

The Green & Smart Guidelines are based on the principle that a few key actions taken by urban planners can help create a great city. The graphic below explains our approach in incorporating good policy design principles into each of the 12 guidelines in order to ensure they are beneficial, measureable and practical. Designed as a tool for cities, the guidelines also provide a quantitative benchmark to help urban planners and others in city government fulfill the criteria.

DESIGNING GREEN CITIES

12 GUIDELINES TO CREATING HAPPIER, HEALTHIER, AND MORE SUSTAINABLE CITIES



Literature / further information:

- China Society for Urban Studies (CSUS) and Atkins. 2013. *Eco-Low Carbon Urban Planning Methodology*. <http://www.atkinsglobal.com/en-GB/group/sectors-and-services/services/future-proofing-cities/china>
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- UCLG. 2016. *GOLD IV. Co-Creating The Urban Future. The Agenda of Metropolises, Cities and Territories*. Fourth Global Report on Decentralization and Local Democracy. Barcelona. https://www.uclg.org/sites/default/files/goldiv_eng.pdf

ⁱ Source: China Society for Urban Studies (CSUS) and Atkins. 2013. *Eco-Low Carbon Urban Planning Methodology*. <http://www.atkinsglobal.com/en-GB/group/sectors-and-services/services/future-proofing-cities/china>