

# Ecopolis: Industrial Transition and Ecosystem Restoration

## 资源型城市转型与生态城市建设方法

论文摘要集

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# Eco-city planning and design approaches: requirements for an eco-city planning concept and supporting examples.

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**【Abstract】** An eco-city planning concept should include the following components:

- Decoupling income progression from increase in energy use at the level of a region.

A case in point seems Singapore, among others through its car ownership restraint, its congestion pricing, its network of trains linked with pedestrian malls and its intermodal Easylink card.

- Life styles favouring non motorized transport clusters all over the region.

A case in point seems Copenhagen, among others through its high-density low-rise urban planning, its bicycle network (36% of commuters using bicycle, notwithstanding the Scandinavian climate), its combination of regional rail covering Copenhagen and Malmö, and its extended pedestrian streets.

Among smaller cities a case in point seems Freiburg (Germany), among others through its urban development clusters and its synergy between low energy buildings and low energy neighborhoods.

- Using opportunities for non motorized transport to policies and measures and actual practices, at urban and regional level.

A case in point seems the City of Portland (Oregon), among others through its systematic reconversion of empty urban blocks into high density mixed use urban development and small public squares (Pearl District) and through its steadily increasing accessibility by transit. At regional level, the Metropolitan Planning Organization METRO, which covers the Urban Growth Boundary, has a directly elected Government, with powers including the development density per areas within the Region and fostering effective transit oriented development.

- Contributing to a complete mobility through effective tram/bus right-of-ways and innovative use of the rented bicycles for short trips.

A case in point seems Paris. The extensive use of bus right of ways (more recently also trams), protected by “banquettes” and passenger information about waiting times has triggered a strong revival of surface transport. In China the City of Kunming may be considered as a pioneer. The Paris bicycle rent “Velib” system, which provides close 20.000 bikes dispersed around the city, is reported as having

substantially modified the life-style in favor of non-motorized transport, as well as having been politically rewarding. Extensions of the system to the periphery and bicycle lanes remain to be implemented.

- Implementing synergy between supply of regional public transport and restraint to the use of the car in the city.

A case in point seems the City of Zurich and its Region. The on-street parking is systematically reserved for registered residents, while automobile commuters are submitted to a limitation of their parking time. Conversely rail commuters have benefited from an increase service supply. The parking measure has brought a return of inhabitants to the City (to be able to park) and has been politically rewarding, while suburban rail travel was made easier.

**【Key words】** *planning and design approaches; eco-city; planning concept*

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