

**EC-Link Pilot projects**  
**European cooperation to make**  
**Zhuhai a Resilient city**



# European cooperation to make Zhuhai a Resilient city

## EC-Link Pilot projects



Zhuhai challenge to climate change started at the end of 2017, when the city realized that typhoons, that every summer impact the coast and consequent floods, invading the majority of urban areas, represent the most important issue to focus on. Finding proper solutions to make the city resilient, adapting it to climate change impact is crucial to safeguard the safeness of citizens and Zhuhai economical development.

The opportunity to cooperate with EC-Link project was therefore caught with enthusiasm by local administrators, aware of how this pilot project can also represent a model to be used by the many Southern Chinese cities affected from same natural disasters.

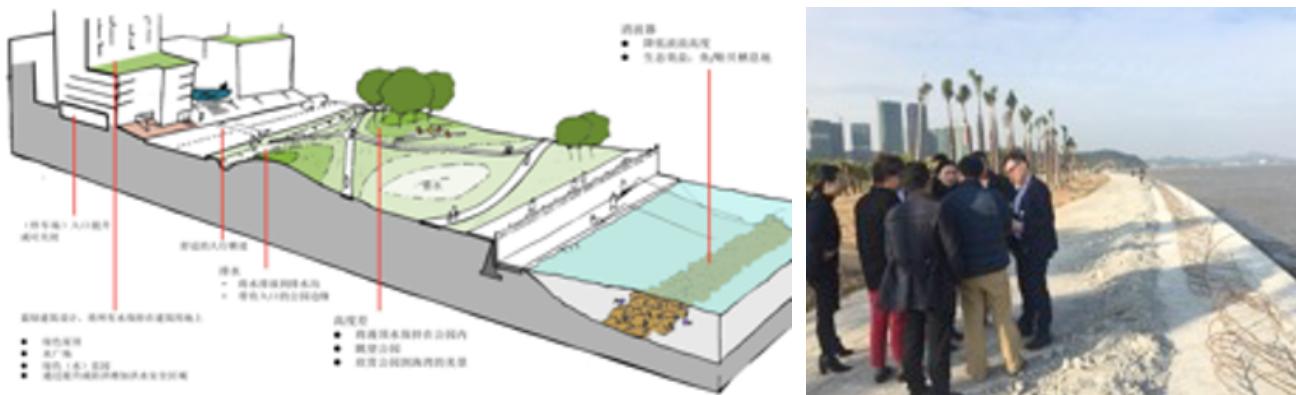


The best EU competences have been selected to support Zhuhai in this challenging mission regarding both water cycle management and spatial design, to integrate technical solutions to protect the city from strong rains and raising sea level with a proper design and functionality of residential areas and coastal waterfront. The latter represents a precious resource that makes Zhuhai a very attractive touristic city.

Three Pilot project components have been agreed with Zhuhai administrators, mainly regarding Resilient city, but also to make cleaner and safer the management of solid waste and industrial waste waters, important sectors on which the city is investing to pursue its low carbon development:



- 1 Pilot project component “Resilient City” in different areas in Zhuhai
    - Qianhuan Green Belt/ Park resilient planning and design
    - Old city centre neighbourhood resilient/sponge solution with public participation
    - Zhuhai Hengqing & Jingwan areas flooding prevention plan
  - 2 Pilot project component concerning solid waste management in Fushan Eco Industrial Park
  - 3 Pilot project component concerning the industrial waste purification in Fushan Eco Industrial Park
- Since 2018, under request of Zhuhai Housing and Urban Planning Development, a Team of Dutch, Italian and Spanish experts from Amsterdam, Rotterdam, Bologna and Valencia supported the revision of Zhuhai Urban Planning & Technical Standard and Guideline, which is the overall city guideline for urban planning and city development.



## Involvement of citizens in Zhuhai



The support especially focused on flood prevention, rain proof measures and waste waters management, with the aim to not only advice on an overall strategy and policy to guide resilient city development, but also increase the awareness of Zhuhai's citizens, informing the process of resilient city development with local residents' needs and suggestions, to better drive the planning and choices of suitable technical solutions.

Italian experts analysed Beishan Village, and Qi'ao & Huitong Villages, both located in Tangjiawan Town, to collect inputs and information that led to the drafting of a methodology for the preservation and rehabilitation of Zhuhai historical heritage, also taking in consideration environmental aspects. The report provided new norms and standards

to reduce vulnerabilities to expected and unexpected impacts of climate change, also identifying the new possible functionalities of historical areas.

Design activity of EU experts has been integrated with a series of workshops and training sessions to discuss preliminary results of the work in progress and reach a whole sharing of the solutions proposed.



## Fushan Water Purification Plant



Zhuhai identified in Fushan Water purification plant, integrated in Zhuhai Eco-Industrial Park, another relevant opportunity to cooperate with EU experts coming from Spain, to increase the efficiency and environmental sustainability of this important component of the city' water cycle. Software models developed by the Research Institute of Water and Environmental Engineering and the Department of Chemical Engineering of the Polytechnic University of Valencia have been used to identify suitable solutions.

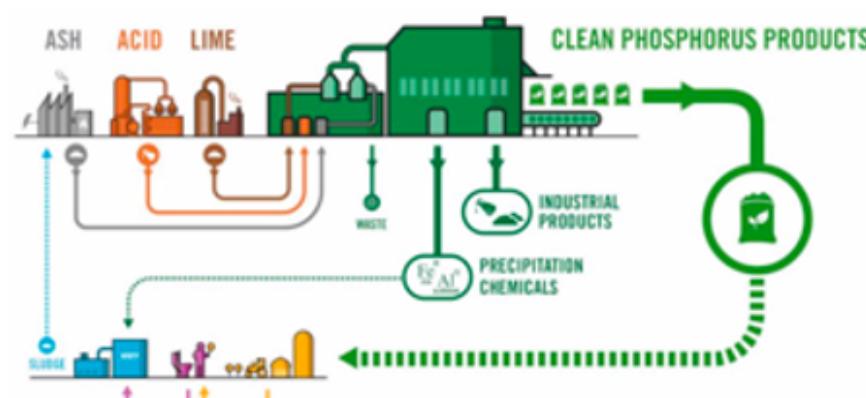
## Fushan Waste to Energy Plant

Zhuhai administrators, aware of the relevance optimising waste management and related energy recovery of the several Waste to Energy (WTE) plants in construction phase and planned for next years, asked for a cooperation with EU experts, coming from Sweden, to improve the efficiency of the WTE facility, located in the same Eco-Industrial Park.

General treatment methods and advanced technologies developed in Europe are presented in the study, to manage hazardous waste as ash and polluted flue gas, providing effective measures for prevention and control of high temperature corrosion, as well as indicating standards to comply for smoke exhaust management.

Zhuhai expressed high appreciation on the support received by EC Link on Pilot project topics and declared its willingness to include the comprehensive design requirements in the new version of Zhuhai Urban Planning Technical Standards and Guidelines within 2020.

Moreover, the city stated that urban planning and construction will be carried out in strict accordance with latest design solutions and relevant planning requirements resulted from collaboration with EU.



EC-LINK  
中欧生态城  
Europe-China Eco-City Link  
中国-欧洲生态城合作项目

I. GENERAL EVALUATION ON THE CONTENTS OF THE REPORT 请您对报告的内容进行评价

very good  
 good  
 not very satisfactory 不太满意  
 unsatisfactory 不满意

II. WHICH OF THE TOPICS WERE OF SPECIAL INTEREST TO YOU? PLEASE EXPLAIN YOUR CHOICES. WHAT IS THE SIGNIFICANCE FOR SUSTAINABLE CITY DEVELOPMENT?  
您认为哪些专题特别感兴趣（请简要介绍一下原因） 对可持续城市发展有何帮助？

本项目的重点在于：希望合作项目能够帮助我们对我们的城市有多重要意义，特别是项目从全生命周期角度，包括：生活垃圾处理设施设备、以及环保利用的制度和政策是城市未来发展的重要支撑。兼闻城市基础设施以及污染防治技术方案。

III. WHICH ADVICE CAN BE USED IN THE FUTURE?  
您认为哪些方面的建议可以在未来 1-2 年内采用？特别是在 3-5 年内会采用？

项目已针对循环经济的建议要求纳入 2020 年度的《珠海市城市规划技术标准与准则》的修编，促进项目在政府层面的推广。并建议在未来的《珠海市城市规划技术标准与准则》和相关规范要求中予以采纳。

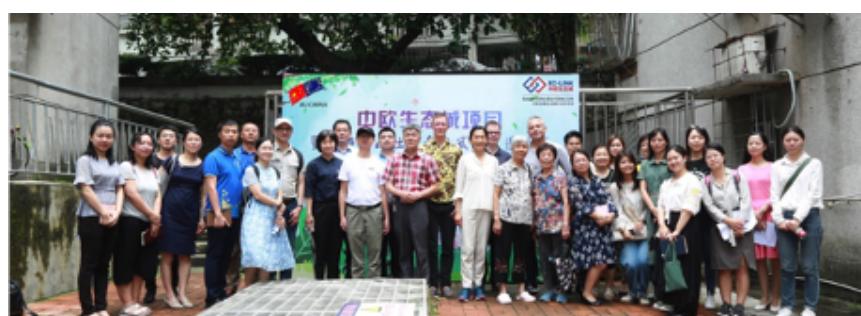
IV. WHICH TOPICS SHOULD HAVE BEEN INCLUDED?  
哪些话题您希望报告中详细阐述？

建议进一步提供与珠海市具有类似情况的欧盟城市项目的成功案例，以供珠海市在未来的建设过程中借鉴学习。

V. SUGGESTIONS AND RECOMMENDATIONS FOR FUTURE COOPERATION BETWEEN INSTITUTIONS, ORGANIZATIONS OR EXPERTS  
请您对未来合作机构及专家提出一些建议和建议。

感谢您投入时间和精力填写此表，表格的内容将作为中欧生态城合作项目进一步工作的参考依据，感谢您的配合！

Thank you very much for taking the time to fill out this evaluation. All the information you provide here will be treated confidentially and will be used with the sole purpose of improving future events hosted by EC-Link. We appreciate your cooperation!





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中欧低碳生态城市合作项目由欧盟资助与住房和城乡建设部合作  
由中国城市科学研究院执行项目管理,德国国际合作机构等提供技术支持