



Green Municipal Finance 绿色市政投融资 How to mobilize capital for urban development 如何调动资本投入城市发展

2019 Xuzhou International Forum on Urban Green Development 2019年徐州城市绿色发展国际论坛 Xuzhou – June 11-12, 2019 徐州 – 2019年6月11-12日

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Introduction - 项目概况



Europe-China Eco-Cities Link 中欧低碳生态城市合作项目

项目执行期 Duration:

后经两次延期至2020年9月- Extended till September 2020

合作方 Beneficiary: 中国住房和城乡建设部 MoHURD

资助方 Funding: 欧盟 EU – DG DEVCO

项目管理办公室 Project Task Force: 中国城市科学研究会 CSUS

技术援助专家组 Technical Assistance Team: 德国国际合作机构 GIZ

官方网站 Website: http://www.eclink.org/







Guilin
Guilin is a prefecture-level city in the



Hefei, capital city of Anhui province, is



Liuzhou
Liuzhou is a prefecture-level city in



Luoyang

Luoyang is a city located in the



Qingdao
Qinqdao is a major city in the east



Weihai
Weihai is a city in the eastern side of



Xixian

Xixian New Area is located on the



Zhuhai
Zhuhai is a prefecture-level city on the



Zhuzhou

Zhuzhou is the second largest



Introduction - 项目概况





Compact Urban Development 紧凑城市/城市更新



Green Transport 绿色交通



Green Building 绿色建筑



Clean Energy 清洁能源



Solid Waste Management 固体废弃物管理



Water Management 水管理



Green Municipal Finance 绿色投融资



Introduction - 项目概况



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透巾是古改立」
3.ls the person in charge trained in energy efficiency?
如有,该部门主管领导是否接受过(建筑) 节能方面的培训?
4.Does this office monitor regularly (annually, monthly) to consumption of each public building? How?
该部门是否阶段性(每月或每年)监督每栋公共建筑的运行能耗?
5.Which energy efficiency measures have been implement planned to improve the public buildings energy efficience
「提升公共建筑能效,贵市已经(或规划)采取何种方能方面?
「Do bu have opposals of EU-Chin Co)」 reity III





Green Municipal Finance 绿色市政投融资



- China's activities to create eco-cities must be seen as part of its contributions to low-carbon development with aim to mitigate climate change 中国积极打造生态城市,是其为减缓气候变化而低碳化发展的一部分
- Municipal finance is about the revenue and expenditure decisions by municipal governments
 - 市政投融资与城市政府所做的收支决策息息相关
- Municipal Finance creates the opportunity to achieving environmental objectives 市政投融资为实现环境目标创造机会



Financial schemes – 金融体系



Green Finance for Municipalities	Sectors covered by Municipal Finance
用于市政的绿色投融资	市政投融资覆盖的行业领域
International Financial Institutions & Agencies	Green/Low carbon/Public transport
国际金融机构	绿色/低碳/公共交通
Green bonds	Green Buildings
绿色债券	绿色建筑
Climate funds	Clean Energy
气候基金	清洁能源
Emission trading schemes 排放交易体系	Sponge city/Water supply/Waste water 海绵城市/水供给/污废水
City government funds	Drainage/Flood Control
城市政府基金	排水系统/洪涝控制
Equity capital	Municipal waste management
权益资本	市政废弃物管理



Operational Challenges – 运营挑战



PROJECT DEVELOPMENT RESOURCES
项目开发资源

ASSESSMENT CRITERIA – HOW GREEN?

评估标准 - 什么程度是"绿色"?

INCENTIVE TO MAXIMISE GREEN 激励绿色最大化

EFFICEINT BLENDING MECHANISMS 高效的混合机制

DEMAND SIDE CAPACITY 需求侧能力

CAPITAL MARKET STRUCTURES 资本市场结构



Institutional Challenges – 机构挑战



TECHNOLOGY IS EXPENSIVE 技术昂贵

HUGE FINANCE NEEDS

资金需求巨大

MONITORING & ENFORCEMENT SYSTEMS

监控和执行系统

GREEN BENEFITS versus REVENUES 绿色效益 对比 收入

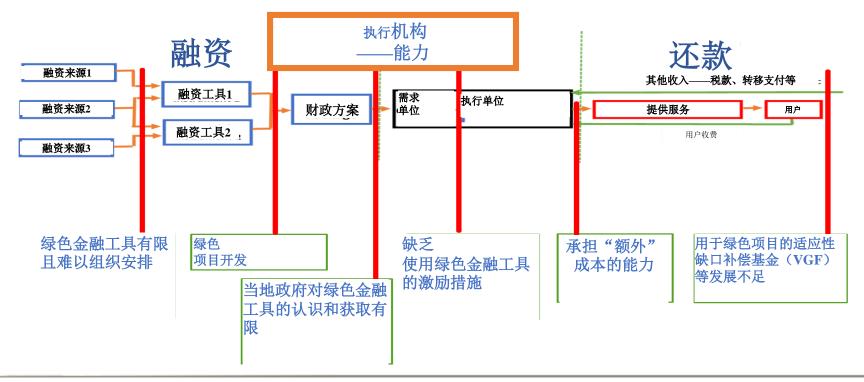
RETURNS ARE CRUCIAL FOR COMMERCIAL FINANCE 回报率对商业资金来说至关重要



约束条件总览



Europe-China Eco-Cities Link 中欧低碳生态城市合作项目





Overcome Green Challenges 克服绿色挑战



BANKABILITY IS THE KEY FOR PROJECTS

对于项目而言,可融资性是关键所在

COORDINATED INSTITUTIONAL MARKET

协同配合的机构市场

ATTRACT PRIVATE FINANCING

吸引私人融资

SUPPORT PRIVATE SECTOR

支持私营部门

SUPPORT TECHNOLOGIES & INNOVATION

支持技术和创新

MATCHING of FINANCING SOURCES

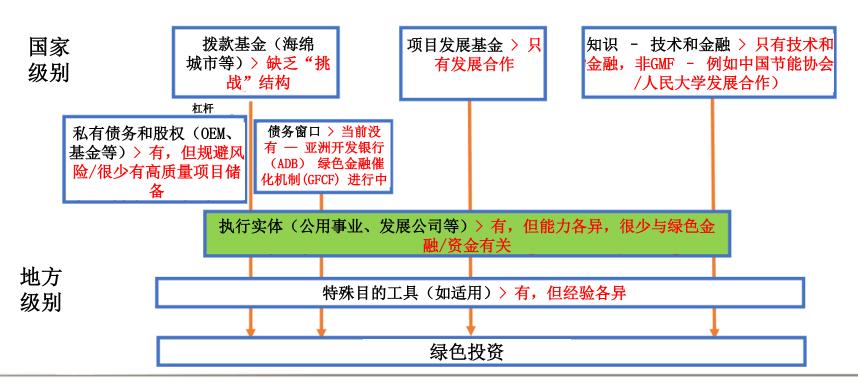
融资来源匹配



欧盟绿色金融体系



Europe-China Eco-Cities Link 中欧低碳生态城市合作项目





EC-Link supporting GMF 中欧生态城支持的绿色市政投融资



Case 1: Qingdao Green Public Transportation system demonstration project

案例1: 青岛绿色公共交通系统示范项目

• The project is designed to be implemented in terms of developing low carbon and green traffic.

实施该项目旨在发展低碳和绿色交通。

• The project comprising 11 sub-projects, which includes the optimization of design on public transport network.

该项目由11个子项目组成,其中包括优化公共交通网络的设计。

• It includes the optimization of design on public transport network, bus lane planning in three major urban areas, bus ticket pricing system research.

包括优化公共交通网络设计、三大主要城市区域的公交线路规划、公交车票定 价系统研究等。



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Case 2: Energy-saving Transformation for Existing Public Buildings

案例2: 为现有的公共建筑进行节能改造

• The Project is designed to retrofit public buildings and residential buildings, for the purpose of reducing energy consumption and improving the energy efficiency for existing buildings. 该项目对公共及住宅建筑进行改造,为现有建筑降低能耗,提高能源效率。

• It will screen out public buildings (with the floor area of 2 million square meters) for energy conservation transformation.

将选出公共建筑(建筑面积达200万平方米)进行节能改造。

• The building retrofitting will meet government criteria on energy savings and conservation, as well as, green building technologies will be applied to the project.

建筑改造将达到政府的节能要求,项目中还将应用绿色建筑技术。



Conclusion - 结论



- China is giving great importance to Green Municipal Finance Sector 中国非常重视绿色市政投融资领域
- Chinese local governments play a fundamental role in the development of "green" projects 中国地方政府在"绿色"项目开发方面发挥着基础性的重要作用
- Demand-side structuring of the "green "projects is the key for municipalities' sustainable development
 - "绿色"项目的需求侧结构是市政可持续发展的关键所在
- "Top to Down" plus "Down to Top" Approach "自上而下"与"自下而上"相结合的方法
- Private Capital & Private Sector are essential in developing resourceful "green" projects 要发展资源充足的"绿色"项目,私人资本和私营部门必不可少





THANKS 謝謝



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