



Using GHG data to support decision-making

温室气体清单的应用











Why developing GHG inventories?

编制温室气体清单的目的

Set target 制定目标



Track progress 进度追踪



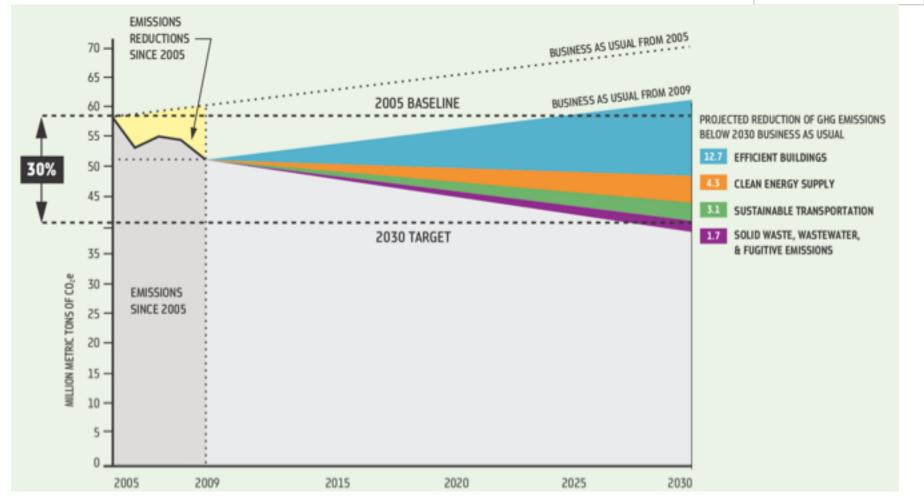
Identify actions 识别行动



Target setting – scenario analysis

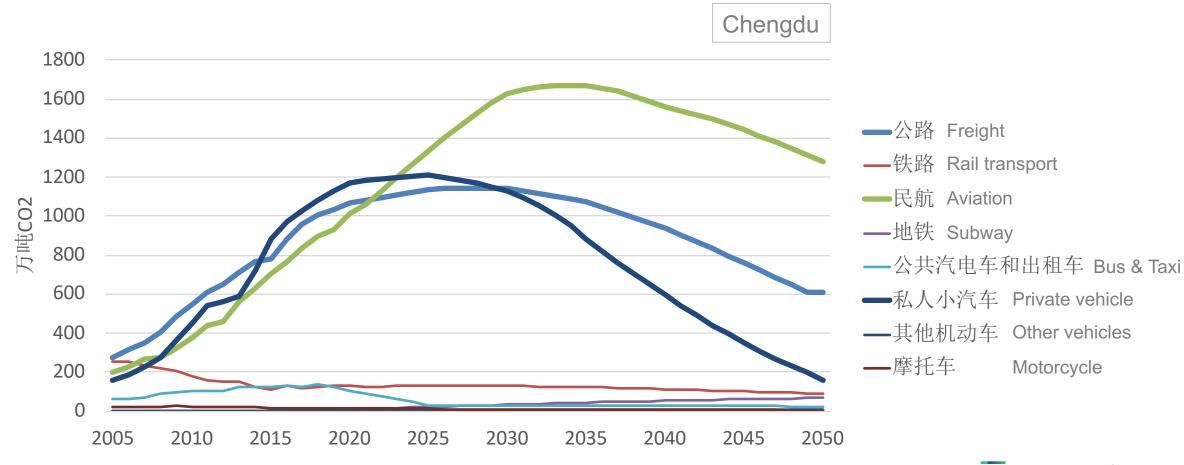
目标制定 - 情景分析

New York City





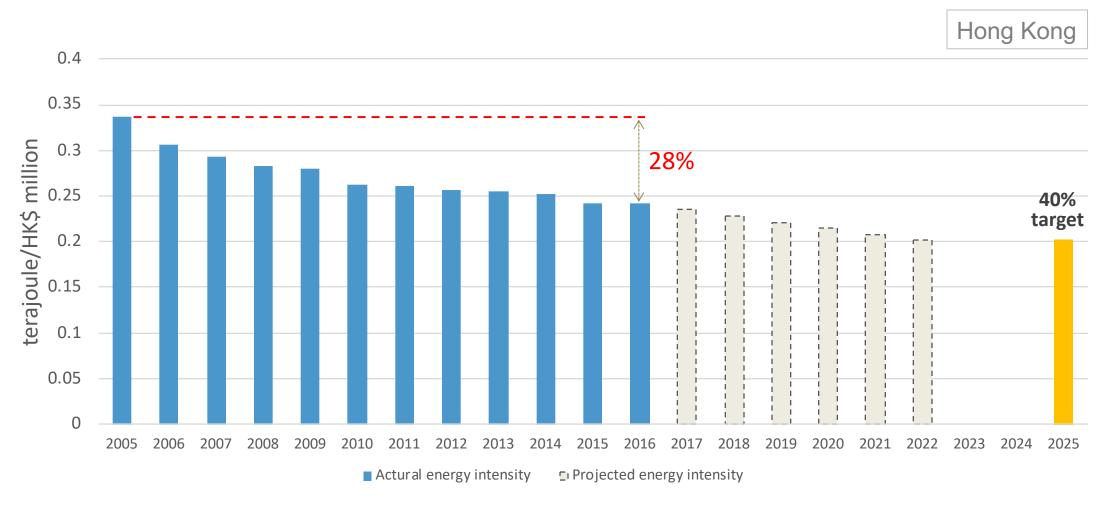
Target setting – scenario analysis 目标制定 – 情景分析



Global
Platform for
Sustainable
Team

Progress tracking – progress towards the target

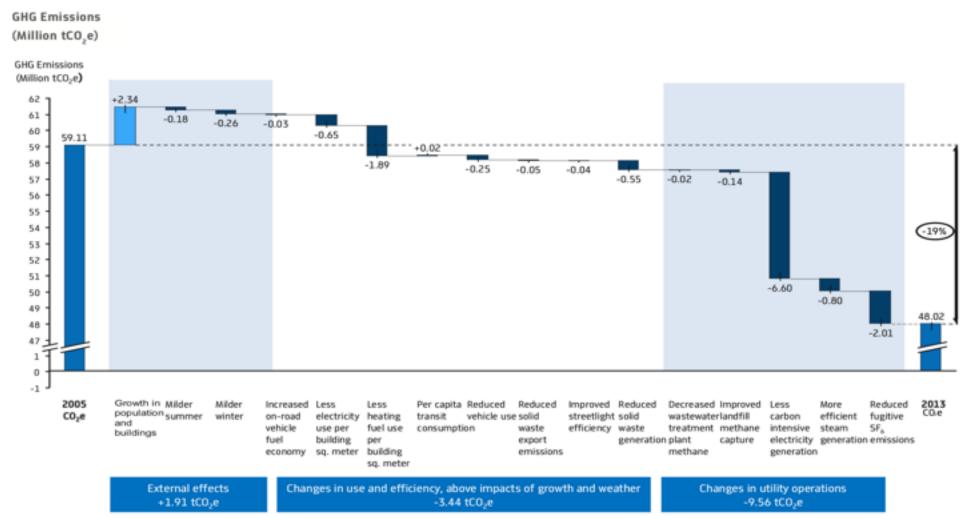
目标追踪和考核





Progress tracking – action evaluation

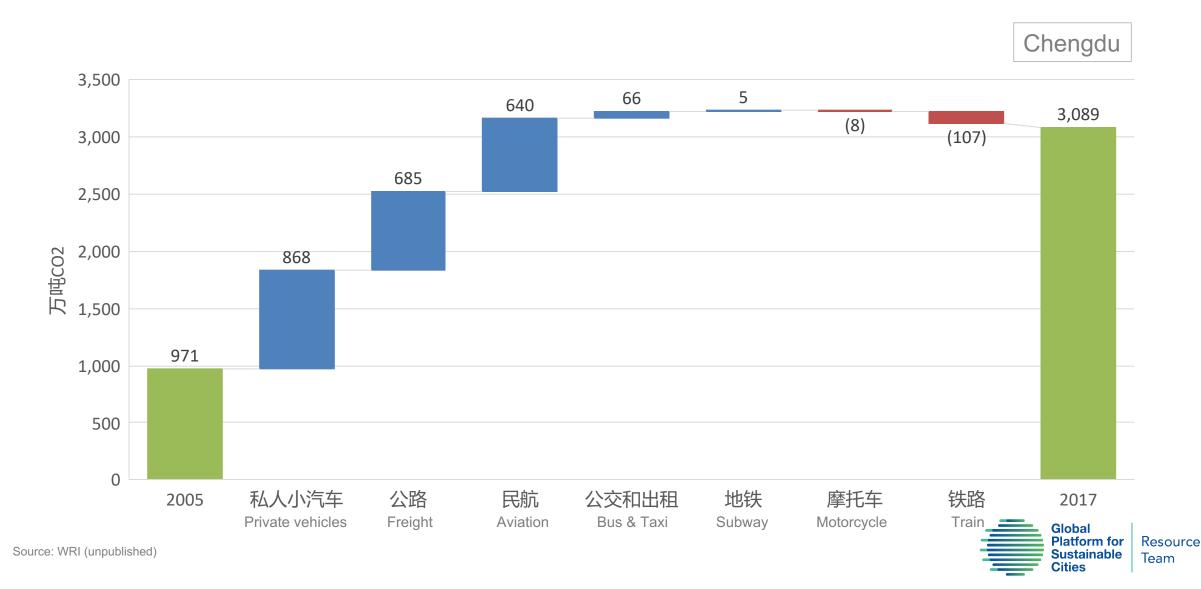
目标追踪 - 减排效果分析





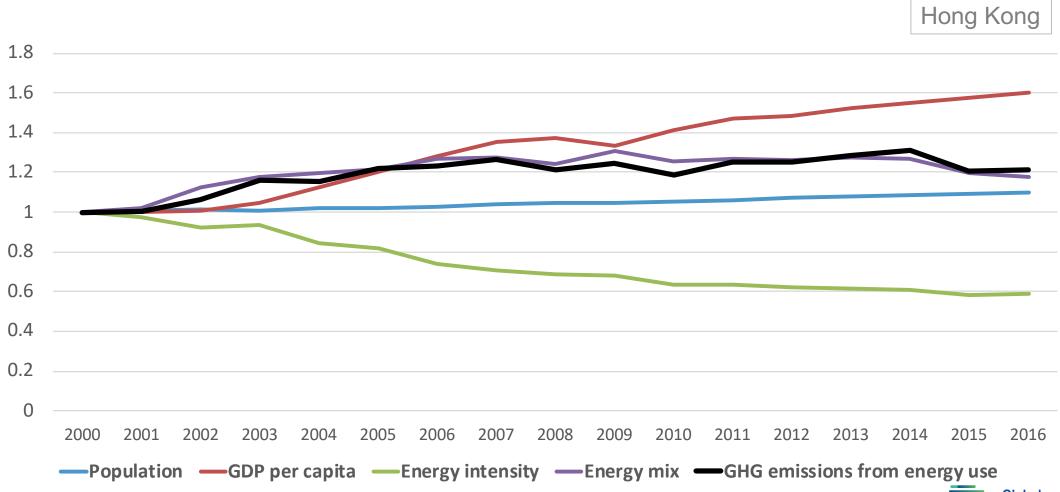
Progress tracking – action evaluation

目标追踪 - 减排效果分析



Progress tracking – Driving force analysis

目标追踪 - 驱动因素分析

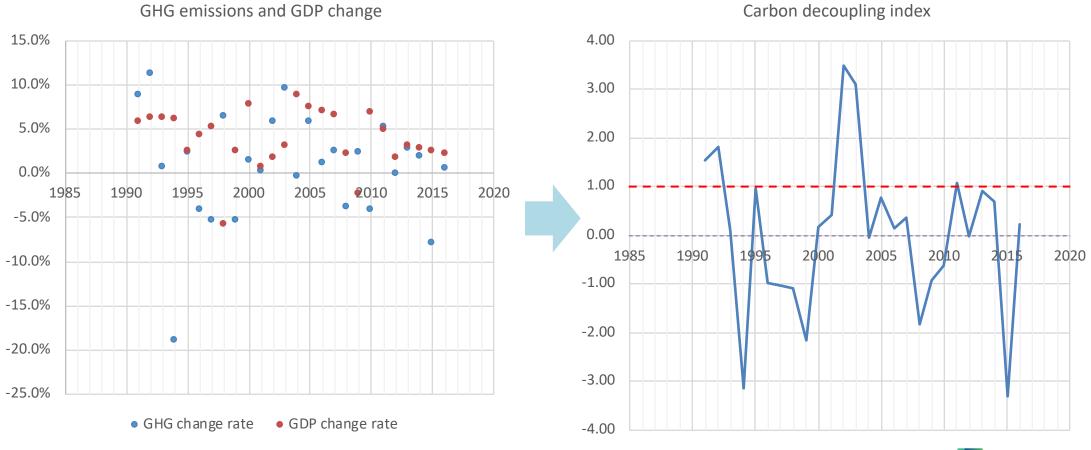




Progress tracking – Carbon decoupling analysis

目标追踪 - 脱钩指数分析

Hong Kong

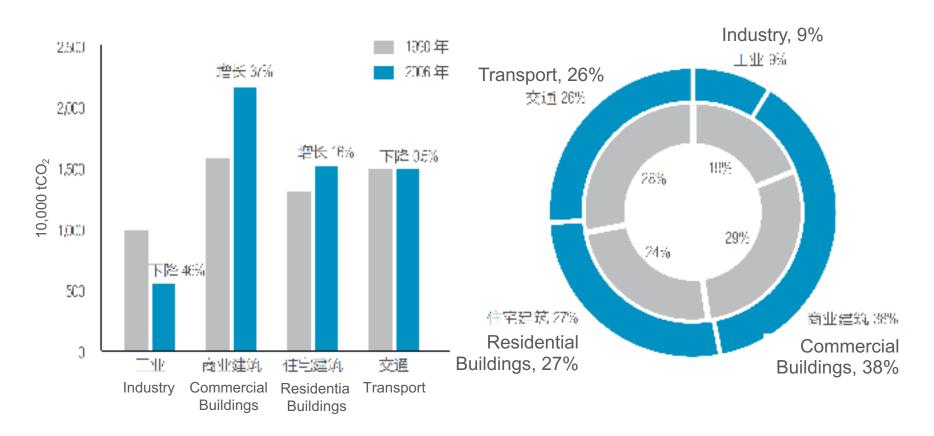




Identifying action – emission hotspots

识别减排行动 - 识别重点排放源

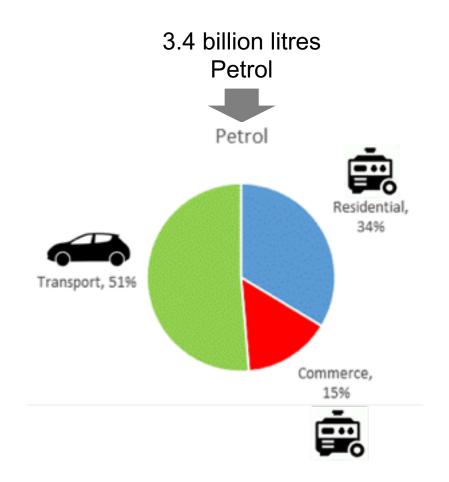
Tokyo

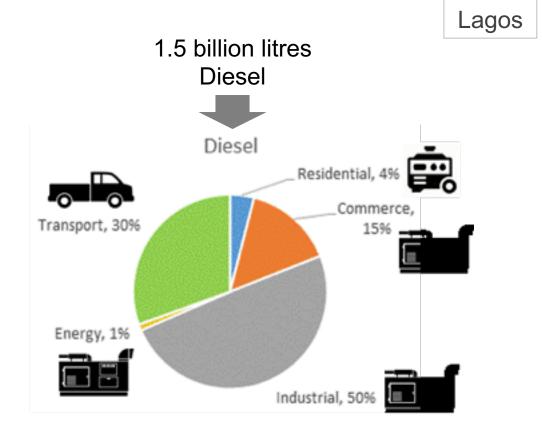




Identifying action – emission hotspots

识别减排行动 - 识别重点排放源

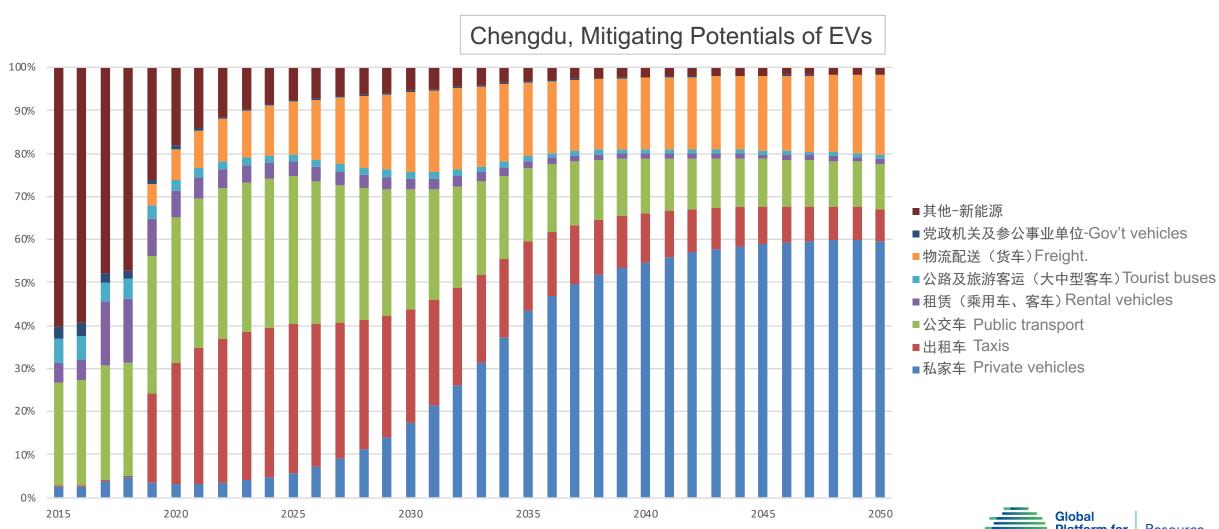






Identifying action - mitigation potential analysis

识别减排行动 - 减排潜力分析



Source: WRI (unpublished)



Conclusion 小结

How to use GHG data to support climate action planning?

温室气体数据如何支撑低碳决策?

Scenario analysis 情景分析

Target setting 目标制定

• Progress tracking 目标追踪

Identifying action 识别行动



What are required to perform these tasks? 温室气体清单应该具备哪些要素?

Annual data 常态化编制

Short time lag 滞后短

• Accurate activity data 活动水平数据科学可靠

• Granular data 精细的数据

• Relevance 反映城市特点

Consistency 数据一致性

• Data analysis 数据分析和应用



清单常态化 - 浙江案例

PROJECT TEAM	LEADING DEPARTMENT	SUPPORTING DEPARTMENT	CONSULTING INSTITUTION
General	Development and Reform Commission	Bureau of Finance Bureau of Statistics	Zhejiang Center for Climate Change and Low-Carbon Development Cooperation
Energy Activity	Development and Reform Commission	Bureau of Statistics Economic and Information Commission Bureau of Commerce Bureau of Public Security Bureau of Transport Bureau of Agriculture State-Owned Assets Supervision and Administration Commission Bureau of Market Supervision Oil and gas companies	Zhejiang Center for Climate Change and Low-Carbon Development Cooperation Zhejiang Province Development Planning Research Institute
Industrial Processes	Economic and Information Commission	Bureau of Statistics State-Owned Assets Supervision and Administration Commission	Zhejiang Center for Climate Change and Low-Carbon Development Cooperation Zhejiang University of Technology
Agriculture	Bureau of Agriculture	Bureau of Statistics	 Zhejiang Center for Climate Change and Low-Carbon Development Cooperation Zhejiang Academy of Agricultural Sciences
Land Use Change and Forestry	Bureau of Forestry	Bureau of Land and Resources Bureau of Statistics	Zhejiang Center for Climate Change and Low-Carbon Development Cooperation Zhejiang Academy of Forestry Sciences
Waste	Bureau of Environmental Protection	Bureau of Statistics Construction committee	Zhejiang Center for Climate Change and Low-Carbon Development Cooperation Zhejiang Institute of Environmental Protection Sciences and Design
City/county Inventory Systems	Development and Reform Commission	Bureau of Statistics	Zhejiang Center for Climate Change and Low-Carbon Development Cooperation

Inter-departmental coordination 多部门协调



Institutionalizing GHG inventories – Zhejiang case study 清单常态化 – 浙江案例

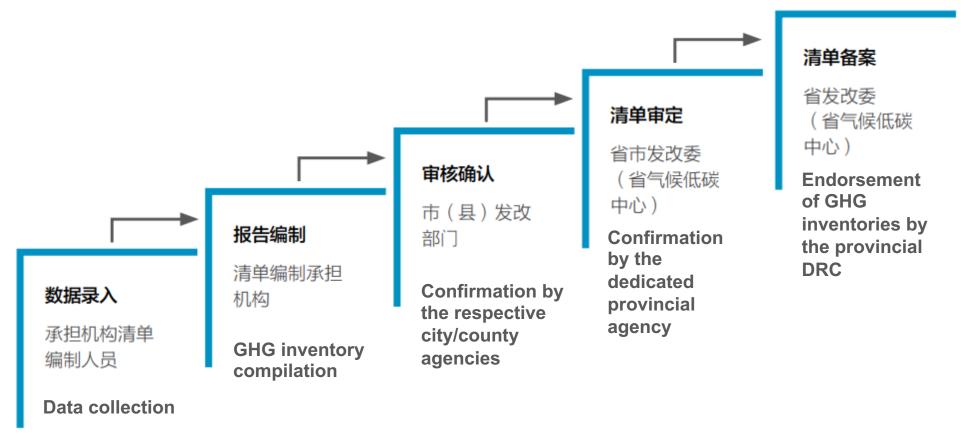
Zhejiang Provincial Guidance for City and County Greenhouse Gas Inventories





清单常态化 - 浙江案例

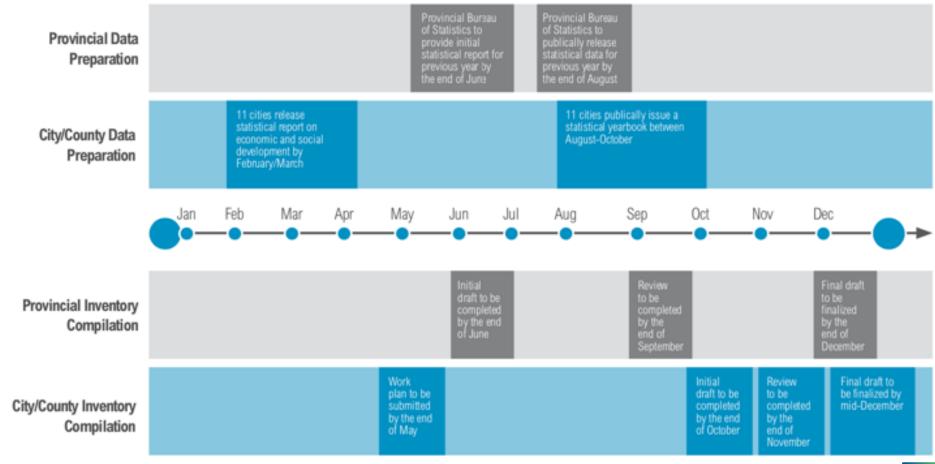
Multi-level approval process 多层评审





清单常态化 - 浙江案例

Annual Inventories 年度清单





清单常态化 - 浙江案例

Online Data Platform 在线平台













