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London's transport Problems

伦敦的交通问题







Central London's Problem

伦敦中心区的问题

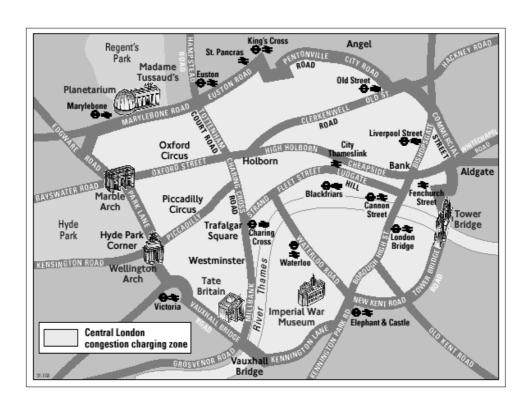
- Greater London largest urban area in Europe, over 7 million population 大伦敦是欧洲最大的城市区,拥有超过7百万的人口
- Central London 1 million workers, heart of UK business, government, media, heritage

伦敦中心区则是英国商业、政府、传媒和文化中心,有1百万人在这区域内工作

- Suffered worst traffic congestion in the UK 在英国交通拥堵状况最严重
 - average traffic speeds 15 km/hr 平均速度在15km/h左右
 - vehicles typically spent half their time in queues 机动车通常路上的一半时间都在排队
- Congestion increasing, costing people and businesses time and money 拥堵增加导致人们居住和商业活动时间和经济上的成本都在增加
- General acceptance 'something must be done' 大家普遍认为"必须采取某种行动来改变这种状况"



The Original Central London Congestion Charging Zone 伦敦中心区最初收取拥堵费的区域



Choice of Scheme 方案选择

 To tackle all day problems and using the most reliable technology available at the time

针对全天的问题并应用最可靠的前沿技术

An area charging scheme covering the whole working day was developed

制定了包括所有工作日在内的固定区域收费方案

- Effective and feasible to implement in first Mayoral term 在市长首个任期内能够实施并产生效果
- Proven technology with camera-based enforcement 采用已经证明成熟的技术并结合摄像来监督实施
- Full choice of payment channels available 提供各种不同的付费途径
- Allows 'anyone' to enter no need for on board equipment or registration



任何人都可以进入,并不需要在车上安装设备或者需要登记

Legislation 立法

 Greater London Authority Act 1999 – established the role and powers of the Mayor and the ability for the Mayor to introduce a Charging Scheme in London

1999年的大伦敦职权法确立了市长的职责和权力,使得市长能够 实施拥堵收费

 The Road User Charging Regulations – specified the exact details of the Enforcement process to issue and pursue penalties for non payment of the charge

道路使用者收费条例明确了对不支付罚款的人员如何惩罚和实施

 The Congestion Charging Scheme Order – defined the area covered by the Scheme, hours of operation, the charges payable, discounts and exemptions

拥堵收费令确定了收费的区域、时间、付费手段、折扣和免费方案



Charge payment 如何付费

 Daily, weekly, monthly or annual payment, for individual vehicle registration number

基于每辆车的车牌号码收取一天、一周、一月或一年费用

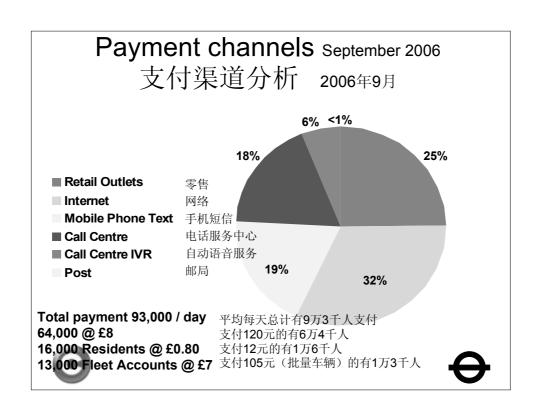
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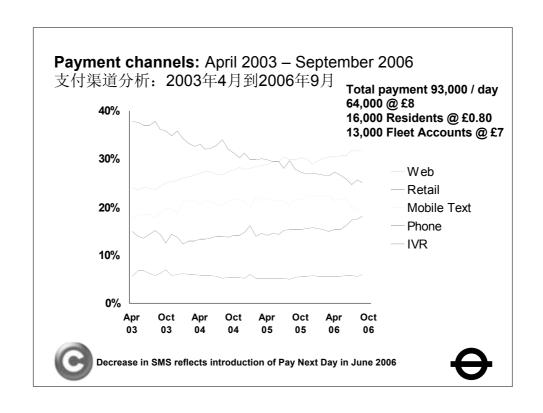
- Flat charge of £8 per day (120 RMB) 一天的费用是120元
- Monday Friday 7am 6pm (was 7am 6.30pm up to 19 February 2007)
 周一到周五早7点到晚6点(07年2月19日前曾是早7点到晚6点半)
- Payment up until midnight on day of travel, but 之前费用必须在半夜前完成支付
- Can now pay next day at a rate of £10 (150 RMB) 但现在可以第二天再支付,不过费用将增加到150元
- Range of exemptions and discounts including 90% discounts for residents

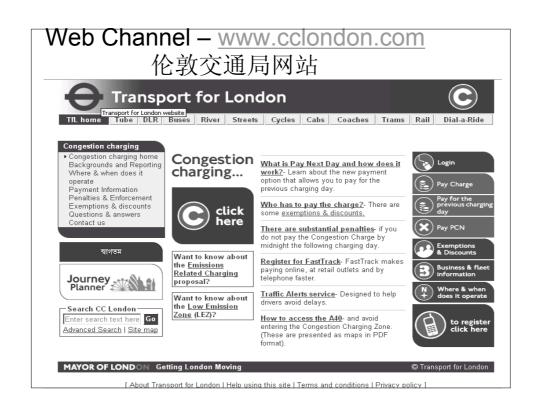
免费和折扣方案中包括对居民提供1折优惠













Camera Enforcement 通过摄像监督实施





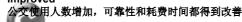




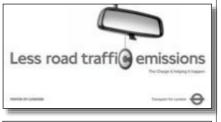
Impacts实施效果

- £122million (1.8 billion RMB) per annum net revenue reinvested in transport improvements in 05/06
 - 05-06年度净利润达到18亿人民币,这些钱又被投 入到改善交通系统
- Traffic entering charging zone reduced by 21% 进入拥堵收费区域的交通减少了21%
- Congestion reduced by 30% in 2003 and still 8% lower than pre Charging levels 2003年的拥堵情况相对以前降低了30%,即便今天 拥堵仍然比实施收费前降低了8%
- Environmental changes环境影响

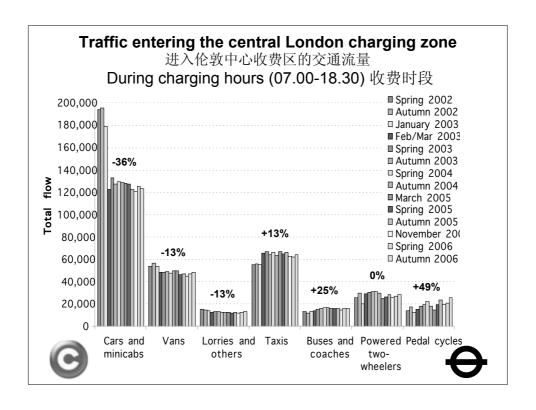
 - NO_x down 13% 氨氧化物降低了13%
 PM₁₀ down 15% PM10颗粒物降低了15%
 - CO₂ down 16% 二氧化碳降低了16%
- Bus patronage up, reliability and journey time











Public Transport, Accidents and Economy 公交、事故和经济

Bus, Underground and Rail - essentially stable

公交、地铁和铁路交通基本稳定

Accidents - further reductions across Greater London with continuing additional Congestion Charging gains

大伦敦地区事故进一步减少

- Economy Central London economy doing well伦敦中心城区经济发展良好
 - Confirms pre-eminence of other factors 确认了其他因素的优秀
 - 3-4 years of data do not suggest significant effects, positive or negative on business performance

3-4年的数据没有显示对商业好的或者 坏的影响





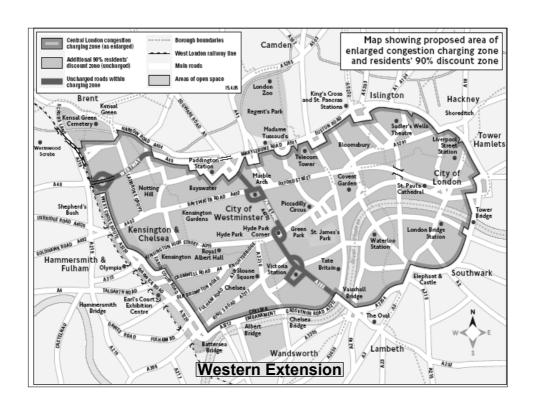
Support for the scheme对计划的支持

- Public opinion was equivocal prior to the introduction of the Central London scheme引入前公众支持度不一
- After its introduction, public opinion shifted decisively in favour of the scheme, with opposition levels falling实施后公众支持增加,反对降低
- Talk of extensions produced a drop in support 扩大收费区范围的讨论降低支持
- After waning support has picked up following benefits campaign 通过效果宣传公众支持度回升

	02	Pre	Pre-CC 03 Post-CC			05	06		
Support	40	38	39	57	50	59	48	40	59
Neither	19	16	18	16	18	15	21	24	12
Oppose	40	43	41	27	31	24	28	35	26







Why an extension to the west?

为什么要向西扩张

- Main concentrations of congestion in central / inner London to the west and south-west of the existing charging zone 主要拥塞在城市中心的西部和西南部
- · High levels of congestion throughout working day
 - 工作日拥堵严重
 - Intense inter-peak congestion 高峰期拥堵压力巨大
- Good public transport throughout the area 该地区公交发达
 - Bus routes and good Underground coverage 地面公交和地下铁路覆盖
- 60% of incoming trips in morning peak by public transport, of which 20% by bus

早晨60%进城雏形通过公交,其中公共汽车占20%

 Feasible boundary route for accommodating diverting traffic 有可行的饶行路线



WEZ Infrastructure WEZ设施

- New cameras 新装电子摄像头
- New telecommunications 新的电信设施









Benefits of WEZ System Architecture WEZ系统的优点

- Cheaper telecommunications 低价的电信系统
- Less public nuisance in laying new cable 铺设新电缆扰民小
- Greater resilience to telecommunications failure 通讯中断风险低
- DR link to all cameras, and no need to buy duplicate ANPR systems DR

连接所有摄像头,不另建ANPR系统

- Greater flexibility of location of data centres 数据中心设置灵活
- Easier future integration with DSRC 'tag and beacon'
 和未来的DSRC容易整合

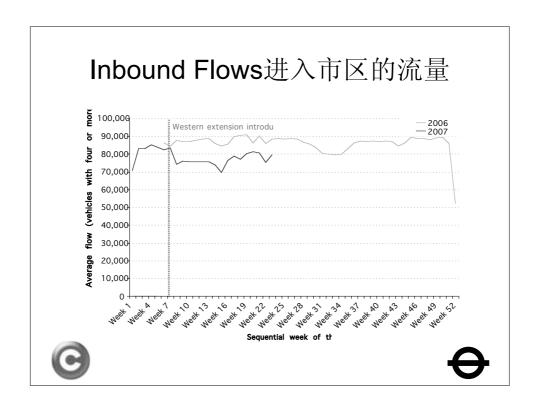


Western Extension: Early Results 西扩的初步结果

- Automatic traffic counter measurement of traffic volumes: traffic entering zone down 10 - 15% 自动流量监控: 进入收费区流量减少10-15%
- Camera and moving car measurements of congestion 摄像头和流动车监测拥堵
- Early results encouraging; accord with TfL's expectations 早期结果显示效果与伦敦交通局预期吻合
- No evidence of operational or traffic problems from the extension







Central Zone Traffic中心地区流量

- Some evidence of increased traffic entering central zone 进入中心区的流量有所增加
- Up to 4% against 2006 at one time; now down to 2% extra

曾经增加4%,目前降到2%

- Partly reflects increased extension residents trips but also partly reflects other factors
 部分因为扩大区居民出行增加,部分为其它原因
- · Not yet any evidence of congestion response

尚未有证据显示对拥堵有影响



Congestion拥堵

 Moving car observer surveys now available (Central zone and Western Extension)

已有流动观察车调查数据(中心区和西扩区)

 Western Extension congestion down by 20-25% against most appropriate comparison surveys. 西扩区拥堵减少20-25%

 Central zone congestion in-line with background trend in 2006 – no evidence so far of extension-related trend 中心区拥堵与2006年背景数据相当-尚未有证据显示与西 扩相关的趋势

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Summary总结

 Western Extension has resulted in forecast reductions in traffic levels and congestion

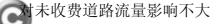
西扩造成的流量较少和堵塞与预期吻合

 Potential negative impacts in the Central zone have not been realised

没有对中心区造成潜在负面影响

 Traffic on Western Extension boundary has increased, but is within manageable levels 在西扩区边缘流量增加但尚可接受

· Traffic on free through route is unchanged





Latest Monitoring Report

最新监测报告

"Central London Congestion Charging Scheme Impacts Monitoring Fifth Annual Report – June 2007"

> 第五次伦敦中心堵塞收费 影响年度报告-2007年6月

http://www.tfl.gov.uk/assets/downloads/fifth-annual-impacts-monitoring-report-2007-07-07.pdf





Key lessons learnt主要经验

- Political commitment of Mayor市长的政治承诺
- Effective research and clear policy objectives 有效的研究和明确的政策目标
- Extensive public consultation and stakeholder engagement 广泛的公众咨询和参与
- Strong project management有力的项目管理
- Adequate public transport alternatives完善的公交体系
- Effective traffic management有效的交通管理
- Strong public information campaign有力的公众信息宣传
- It works and has public support有效的系统和公众支持
- Need for ongoing customer and impacts monitoring, stakeholder engagement and scheme improvements 需要实时的效果监测,公众参与和系统改善
- Need for effective contract management 需要有效的合同管理





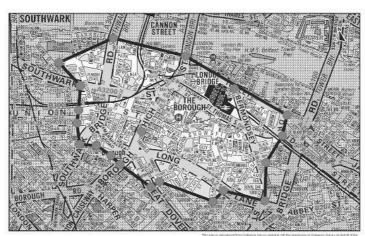
Technology Trials技术实验

- TfL have conducted extensive technology trials since 2003 to understand how well alternative road user charging technologies will work in the 'London' urban environment and when they might readily be available 从2003年起TFL做了大量的技术实验了解多大程度上其他 道路使用收费技术可以用于伦敦的城市环境,并且何时可以付诸实施。
- We have tested, new cameras, road side ANPR, DSRC, satellite and mobile tracking systems
 测试了新的摄像头,路边ANPR,DSRC,卫星和移动检测系统





TfL Mini Zone Trial Site 出TFL微型区检测点







DSRC Infrastructure Borough High Street 2006 DSRC系统







至今为止我们总结如下:

- 改进后的摄像头加ANPR的有效 方法可以用于简单的收费方案(用 在西部外延地区)
- 在敏感的城市区域应用的信标技术,例如根据方向和时间的收费 将在短时间内到位 (到2010年).
- 卫星和移动电话定位系统变得更好和更便宜,但是为了能使他能被接受以及在城市内更加准确还有很多工作要做(可能在2010年后)

To date we have concluded the following:

- Improved cameras plus ANPR effective solution available now for simple charging schemes (used in the western extension)
- Tag and beacon technology for use in sensitive urban areas for more flexible charging eg charging by direction or time of day can be in place in short term (by 2010).
- Satellite and mobile phone location systems for 'specific' link based distance based charging are getting better and cheaper but more still needs to be done to make them more affordable and accurate for use in urban areas (possible post 2010).

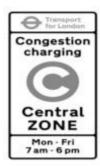




Technologies and Scheme 技术和方案特点 **Features** 根据时间收费 Variable charging by time 根据时间和距离收费 Variable charging by time of day and distance traveled Simple area scheme 多方案地区 Multiple simple area 方案类型 单方案地区 schemes On Board Unit TYPE OF SCHEME 技术 **TECHNOLOGY** 摄像头/ANPR X X X X Camera/ANPR X Tag and Beacon 卫星跟踪 **Satellite Tracking**

与拥堵收费相关 的减排

Emissions Related Congestion Charging







气候变化行动计划 Climate Change Action Plan

- CO₂ 与气候变化相关
- 拥堵费已经有助于减少交通拥堵
- 改变伦敦人的出行方式:
 - 改善公共交通
 - 对步行和自行车交通加大投入
- 鼓励驾驶者改为使用排放少的交通 工具

- CO₂ contributing to climate change
- Congestion charging already helps by reducing traffic
- Changing the way Londoners travel:
 - Improved public transport
 - Investment in walking and cycling
- Incentivise drivers to switch to less polluting vehicles





提议的内容 Context of Proposals CO2 emissions by transport modes Car Bus Fail Underground TramLightRail Walking & Cycling 0 20 40 grams CO 2 / passenger km

- 小型汽车 每人公里的 CO₂ 排放量高
- 通过拥堵收费影响驾驶者 的行为
- 0

- Cars high emissions of CO₂ per passenger km
- Influence driver behaviour through Congestion Charging

与排放相关的拥堵收费提案

Emissions related congestion charging proposals

- Primary objective still to reduce congestion in central London 主要目标依然是减少伦敦中心的拥堵
- Proposed 100% discount for cars emitting 120g/km CO₂ or less – to commence in February 2008 提议小汽车排放CO₂少于120g/km就给予100%

的折扣一2008年2月开始

- Proposed £25 (370 RMB) charge for cars emitting 226g/km CO2 or more to commence in October 2008 提议对排放多于226g/km CO2的小汽车收费 £25 (370 RMB)—2008年2月开始
- No change to £8 (120 RMB) charge for other_ 于其他小汽车收费不变,即 £8 (120 RMB)





更多信息请查询 Find out More at:

www.tfl.gov.uk/co2charging





低排放地区 The Low Emission Zone





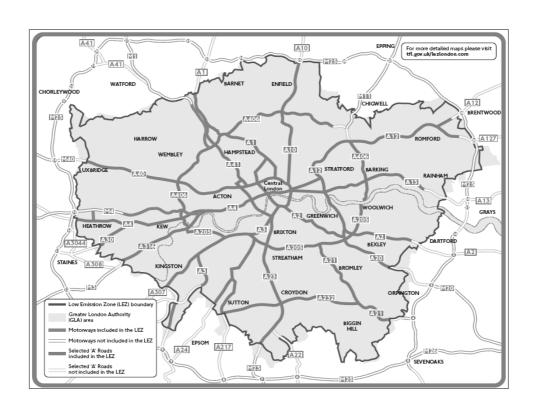


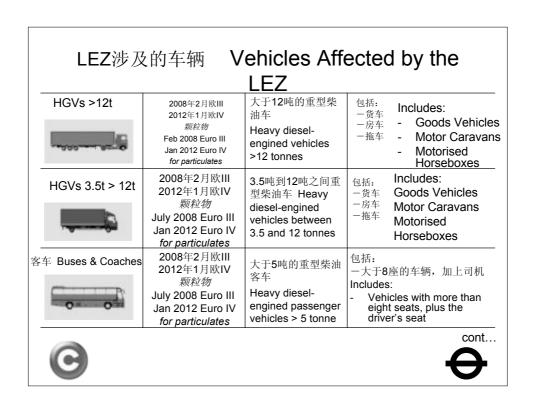
低排放地区概述Overview of Low Emission Zone

- 目的是减少伦敦的个人不环保 交通工具的使用
- 重型柴油车从2008年2月4日开始受影响并将阶段性的实施到 其他车辆中
- 车辆必须满足具体的排放标准
- 在低排放区使用者可以通过每日支付费用来使用不符合标准的车辆
- 包括伦敦的大部分市区以及高 速公路
- 每天全时间运行
- 通过固定和移动的摄像机对不 符合的车辆进行重罚

- Aims to discourage most individually polluting vehicles from being driven in London
- Heavy diesel-engine vehicles affected from 4 February 2008, with a phased introduction for other vehicles
- Vehicles have to meet specified emissions standards
- Operators can pay a daily charge to drive non-compliant vehicles in the LEZ
- Covers the majority of Greater London, inc. Motorways
- Operates all day, every day
- Enforced using fixed and mobile cameras with heavy penalties for non-compliance







LEZ涉及的车辆 Vehicles Affected by the LEZ

大货车Large Vans	颗粒物 欧III 2010年10月 Oct 2010 Euro III for particulates	自重1.205吨到3.5 吨之间的柴油车 Diesel-engined vehicles between 1.205 tonnes unladen and 3.5 tonnes	包括: -救护车 -敞篷车 Includes: - Ambulances - Motor Caravans
中客车 Minibuses	颗粒物 欧III 2010年10月 Oct 2010 Euro III for particulates	小于5吨的柴油机客 车 Diesel-engined passenger vehicles below 5 tonnes	包括: 一小于8座的汽车,加上司机 Includes: - Vehicles with less than eight seats, plus the driver's seat

O Transport

emission





LEZ是如何运行的

- LEZ是一种付费方案一但是可 以通过驾驶合乎要求的车避免 付费
- 在区域内和入口处有标志
- 通过固定或移动的摄像头对 LEZ内的车辆进行监视
- TfL通过一个不符合车辆的登记 薄来核查
- 不符合要求的重型车、客车和 卡车需要每天付£200 (3000 RMB)
- 每年365天从午夜起计时付费

How will the LEZ operate

- The LEZ is a charging scheme but most will avoid paying the charge by driving a compliant vehicle
- There will be signs at entry points and in the zone
- Vehicles which are subject to the LEZ are detected using fixed and mobile cameras
- TfL checks vehicle registration against a register of non compliant vehicles
- Non compliant vehicles have to pay a daily charge £200 (3000 RMB) per day for HGV, buses and coaches
- Charging day midnight to midnight, 365 days a year





LEZ的实施

- 辆将被贴一个每日罚款的 通知:
 - 重型车辆、客车和卡车 是£1000 (14800 RMB) (如果14天内支付会减少 到 £500 (7400 RMB))

Enforcement of the LEZ

- 不符合的或没有注册的车 Vehicles which are non compliant, or which are not on the register will be sent a daily Penalty Charge Notice:
 - £1000 (14800 RMB) (reduced to £500 (7400 RMB) if paid within 14 days) for HGVs, buses & coaches





更多信息请查询 Find out More at:

www.tfl.gov.uk/lezlondon







www.tfl.gov.uk/congestioncharging









Mexico City's Green Plan

Martha Delgado Peralta
Environment Secretary
Federal District Government



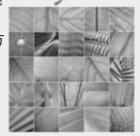
What is the Green Plan? The Green Plan is the Mexico City Government's medium-term (15-year) course of action and guideline comprising strategies and actions to foster the city's sustainable development.

The Green Plan is a communication mechanism as well. A prompt and simple mechanism to provide society with information on how the government assesses environmentally relevant topics, related goals and the high-impact strategies and actions to accomplish them.

This plan is a live instrument which will be permanently subject to both enhancement and evaluation.

"绿色计划"是什么?

"绿色计划"是墨西哥城政府的中期(15年)行动方针和指导纲领,它包括旨在促进墨西哥城可持续发展的战略和措施。



Plan Verde

"绿色计划"还是一种沟通机制。 通过这种快捷而简单的机制,可以向社会提供下述信息:政府如何评估与环境有关的主题、相关目标以及为了实现这些目标将要采取哪些具有重大影响力的战略和措施。

这个计划并非一成不变, 它将始 终得到改进和评估。



Mexico City's

participating agencies

墨西哥城的 参与机构

政府最高领导 管理办公室 管治部 环境部

城市发展和住宅部 公交运输部

公共工程和服务部

公共安全部 教育部

卫生部 社会发展部

农村发展和权益部 有效用能协调办公室

古城保护局





Efficient Use of Energy Coordinating Office

Historic Downtown Authority





Plan Verde

Mexico (spot) to Mexico		Plan V o
Topics	主题	Cina
1. Land and Conservation 2. Habitability and Public Space 3. Water 4. Transportation 5. Air 6. Waste 7. Climate Change and Energy Transversality	1. 土地和保护 2. 居住和公共空间 3. 水资源 4. 交通运输 5. 空气 6. 废弃物 7. 气候变化和能源 横向战略	



Composition of themes and main actions

Theme	Number of strategies	Actions	Actions %
Conservat ion Land	4	19	15
Habitabili ty and public space	3	18	14
Water	5	22	18
Mobility	5	23	18
Air	3	14	11
Waste	4	20	16
Climate Change	3	9	8
Total	27	125	100

主题和主要措施的构成

主题	战略数	措施数	措施所 占百分 比
保护土 地	4	19	15
居住和 公共空 间	3	18	14
水资源	5	22	18
机动性	5	23	18
空气	3	14	11
废弃物	4	20	16
气候变 化	3	9	8
总计	27	125	100



1. Conservation Land

Objective:

To rescue conservation land as a key space for maintaining the ecological balance of Mexico City.



1. 保护土地

且标:

治理保护用地, 并 将保护用地作为保 持墨西哥城生态平 衡的关键区域。

Strategies to carry it out

- Zero human settlement growth in conservation lands (Creation of a specialized surveillance corps for the protection of conservation land, to be launched in 2008)
- **E** Restoration and preservation of
- Magdalena and Eslava river basins in order to achieve 100 percent reversal of its environmental deterioration over a six-year period)
- E Payment of environmental services E 将有偿的环保服务作为补偿
- as a mechanism to compensate for 3 conservation costs
- Promotion of agriculturalecosystems and sustainable
- management of natural resources

- 保护用地的人口迁入率零增 长 (将在 2008 年组建-
 - 个专门的监测团队来加强对 保护用地的保护)
- E 恢复和保护具有高度环境价
- ecosystems with high environmental value (Rescue of the environmental value (Rescue of the environmental value (Rescue of the ecosystems with high ecosyste 间治理马格达莱纳河和艾斯 拉瓦河盆地, 以便完全扭转 其恶化的环境状况)

 - 3 相关损失的一种机制
 - 促进农业生态系统,实现对 E 自然资源的可持续化管理 4



2. Habitability and Public Space

Objective:

To recover and create public spaces in order to transform Mexico City into a place suitable for social integration and capable of offering better habitability, comfort, and equity.



2. 居住和公共空间

<u>且标</u>:

收回并开辟公共空间,以便将墨西 哥城改变成一个有利于社会融合并 且能提供更好的居住条件、舒适度 和权益的地方。

Plan Verde

Strategies to carry it out

为此执行的战略

- re-organizing and regulating large public spaces, designed according to sustainability and habitability criteria (To implement the "Clean Building Guarantee" in all new service facilities and all of those located in major urban corridors; it will be mandatory starting in 2010)
- E2 To recover and improve existing E2 public spaces in order to incorporate them into Integration and Development corridors for recreational and environmental purposes
- To increase green areas and provide public spaces with outdoor furniture and greater accessibility
- To implement projects aimed at E1实施旨在重新组织和管理大型 公共空间的项目, 这些项目 将根据可持续性和适合居住 性标准来设计(对所有新服 务设施和所有位于城市主要 通道中的设施实施"建筑物清 洁保证"标准;该标准将从 2010年开始强制执行)
 - 收回并改善现有的公共空, 以便将它们纳入到出于娱乐 和环保目的而创建的综合通 道和发展通道中
 - 增加绿化面积, 为公共空间提 E3 供户外配套设施, 改善公共 空间的交通便利度



3. Water

Objective:

To achieve water self-sufficiency and improve water management in Mexico City



3. 水资源

目标:

实现墨西哥城的水资源自 足,改善水资源管理

Strategies to carry it out

E1 To attain a balance of aquifer extraction and replenishment E1 实现蓄水层的提取和补给

(Protection of ravines and conservation land; issue of a decree declaring 12 urban ravines as environmentallyvalued areas)

- E2 To reduce residential water consumption
- **E3** To reduce losses in water mains
- To increase re-use and F4 treatment of water

To create lakesides parks in E5 Tláhuac and Xochimilco (To

recover the lakes and canals system in 250 hectares of Tláhuac and Xochimilco, starting in 2008)

- 平衡(保护峡谷和保护用 地; 以法令形式将城区的 12 个峡谷定为具有环保 价值的区域)
- E2 减少生活用水量
- E3 减少供水主管道的水损耗
- E4 增加水资源的重复利,提
- 高水处理能力在 Tláhuac E5 和 Xochimilco 湖修建湖 畔公园(恢复250公顷的 Tláhuac 和 Xochimilco 湖 区旧貌以及运河体系,这 将从 2008 年开始)



Plan Verde

4. Transportation

Objective:

To recover_streets and roads for efficient, non-polluting, mass transportation with properly trained drivers, and to promote non-motorized transportation.



4. 交通运输

目标:

为高效、无污染的公共交通运输开辟道路,对驾驶员进行适当培训,提倡非机动方式的交通运输。

Strategies to carry it out

- E1 To encourage efficient, nonpolluting, mass transportation with properly trained drivers; and to recover the streets and roads for the majority of the population (construction of ten corridors, two per year, by 2012).
- To reduce the number of vehicles in circulation (Circulation of freight vehicles restricted to specific schedules and routes, depending on their cargo, dimensions and fuel technology, starting in 2009)
- To offer incentives to those who use non-motorized transportation (To create pedestrian-only zones in historic downtown areas, neighborhoods and villages in all of the 16 delegations (municipalities) of the Federal District by 2010)

为此执行的战略

- E1 鼓励高效、无污染的公共交通运输,对驾驶员进行适当培训;根据大多数人的利益治理街道和道路(到 2012年修建 10 条通道,每年修建 2 条).
 - 减少流动车辆数量(根据货车的载货类型、载货规模和燃料技术,限制货车只能在规定的时间和按规定的路线出行。这将在2009年开始实施)
- 对采用非机动交通运输方式 E3 的人员给予奖励(到 2010 年,在古城区和周边区域以 及在联邦区的所有 16 个市 的村庄中开辟步行区)



4. Transportation

Objective:

To recover_streets and roads for efficient, non-polluting, mass transportation with properly trained drivers, and to promote non-motorized transportation.



4. 交通运输

目标:

为高效、无污染的公共交通运输开辟道路,对驾驶员进行适 当培训,提倡非机动方式的交通运输。

Strategies to carry it out

- E3 To offer incentives to those who use non-motorized transportation (To create pedestrian-only zones in historic downtown areas, neighborhoods and villages in all of the 16 delegations (municipalities) of the Federal District by 2010)
 - To improve transit and traffic (Intelligent traffic signals installed on all of the city's major arteries over a 36-month period)
 - To foster transit and pedestrian awareness culture aimed at a more harmonious coexistence (Installing 8,000 new cameras and 100 radars as surveillance against violations)

lan Verde

- E3 对采用非机动交通运输 方式的人员给予奖励(到 2010 年,在古城区 和周边区域以及在联邦 区的所有 16 个市的村 庄中开辟步行区)
- 改善路口状况,加强交 通流量的疏导(用 36 个月的时间在墨西哥城 的所有交通要道安装智 能型交通信号灯)
 - 培养交通礼让和行人意识的文明行为,旨在促进更为和谐的共存(新安装 8,000 部摄像机和 100 部雷达用于监测交通违章)



5. Air

Objective:

To control the most prevalent, noxious_atmospheric pollutants (ozone and particulate matter), and to reduce emissions of toxic pollutants.



5. 空气

目标:

控制最常见的有害空气污染 物(臭氧和颗粒物质),减 少有毒污染物的排放。

Strategies to carry it out

- E1 To reduce emissions of pollutants (Replacement of the Mexico City Government's entire_official vehicle fleet by less polluting fuelefficient units by 2012)
- E2 To increase both passenger and freight transportation efficiency (Replacement of 5,000 minibuses by new units equipped with less polluting technologies and with greater passenger capacity, by 2009)
- To enforce the actions proposed by transportation and energy plans, and to measure the benefits yielded by the Green Plan in terms of air quality (Biannual rendering of the effects of the Green Plan's actions and scenarios on air quality)

为此执行的战略

Plan Verde

- 减少污染物排放 (到 2012 年,墨西哥城政府 的所有公务用车都将换上 污染较小的节油装置)
- 提高客运和货运效率(到 2009 年,5,000 辆小型 公共汽车都将换上采用低 **E2** 污染技术的新装置,并将 增大它们的客运能力)

E3

实施交通运输和能源计划 所提议的措施,根据空气 质量评估"绿色计划"所 产生的成效(一年公布 两次绿色计划针对空气质 量采取的措施和方案产生 的效力)



6. Waste

Objective:

To implement comprehensive and sustainable management of solid waste.



6. 废弃物

目标:

对固体废弃物实施综合、 可持续性的管理。



Strategies to carry it out 为此执行的战略

- Enforcement of packing and E1 E1 packaging regulations in order to reduce waste (To promote new packing and packaging designs_using biodegradable and/or easily recyclable materials in order to decrease waste generation)
- E2 Enforcement of the garbage E2 施中实施废弃物分类计 separation program in households, businesses, and industrial facilities in order to increase recycling (from 3 to 30 percent by 2012)
- 通过实施包装管理来减 少废弃物(提倡新型包 装设计,鼓励使用生物 可降解和/或易于回收的 材料,以减少废弃物的 产生)
- 在家庭、商业和工业设 划,以增强回收能力(到 2012 年,将废弃物 回收率从 3% 提高到 30%)



Plan Verde

6. Waste

Objective:

To implement comprehensive and sustainable management of solid waste



6. 废弃物

目标:

对固体废弃物实施综合、可持续性的管理。

Strategies to carry it out

- E3 Fostering commerciallyviable recycling operations in order to increase the use of such materials (Large-scale production and use of compost by 2008)
- E4 Modernization of waste collection, concentration, transfer, treatment, and disposal methods [Building of a new waste separation plant and modernization of all other plants (2010)]

为此执行的战略

- 通过促进商业上可行的回收应用,提高回收物质的利用率(到 2008 年将大规模地生产和使用堆肥)
- 实现废弃物收集、 集中、运输、处理 和处置方式的现代 化[新建废弃物分 离厂,并且实现其 他所有工厂的现 化(2010年)]



7. Climate change and Energy Objective:

To reduce greenhouse gas emissions, to foster the establishment of renewable energy markets, and to promote adaptations to climate change among the population.



7. 气候变化和能源

目标:

减少温室气体排放,鼓励创建 可再生能源市场,以及增强公 众对气候变化的适应性。



Strategies to carry it out

- To deliver the Climate
 Change Action Plan for
 Mexico City
- E2 To endorse all actions proposed by the transportation, water, air, public spaces, waste and energy plans aimed at the reduction of greenhouse gas emissions
- E3 To reduce Mexico City's vulnerability to climate change by implementing measures that allow the general population to adapt to it
- 颁布墨西哥城的气候 ① 变化行动计划
- E2 实施在交通运输、水 资源、空气、公共 空间、废弃物和能 源计划中提出的旨 在减少温室气体排 放的所有措施
- E3 通过采取能让所有人 逐步适应气候变化 的措施,减小气候 变化对墨西哥城造 成的影响





Transversality

The achievement of the Green Plan's goals requires to go beyond the technical and operational reach of government's responsibility and tasks.

It requires to develop transversal strategies which longitudinally cross each proposed action.

Thus, we can count on gaining acceptance by society as well as supply of the means and resources necessary to fulfill the goals.

Funding

·Legal, regulative and institutional framework

•Environmental education and public communication

Society participation

 Metropolization and regionalization

 Transparency and accountability

 Monitoring and evaluation

Internationalization

横向战略

为了实现绿色计划的 '资金来源 目标,我们必须在技 术和运作上跳出政府 的职责和任务范围。

它要求我们制定贯穿 •社会参与 在每一项建议措施之 • 大都市化和地区化 中的横向战略。

只有这样,该计划才 •国际化 有可能获得社会的认 同,并且才有希望通 过群策群力来实现其 目标。

·法律、调控和制度 框架

·环保意识教育和公 共宣传

·透明性和责任机制

•监督和评估



The Green Plan is a live instrument which must be permanently evaluated and enhanced.

Mexico City's Green Plan **Evaluation and Monitoring** Board

It will acknowledge and feedback the programs derived from the Green Plan.

It will reinforce the communication task of promoting the implementation of the Green Plan among the community.

It will evaluate and monitor the actions executed by the Mexico City Government and 哥城政府和其他任何 any other authorities in order to fulfill the Green Plan.

这个"绿色计划"不是 The Green Plan's Evaluation and Monitoring Board -成不变的,必须始

墨西哥城绿色计划评 估与监督委员会

它将确认源自绿色计 划的方案并提供反馈

它将承担旨在促进绿 色计划实施的公众交 流任务。

它将评估和监督墨西 机构执行的绿色计划 实施措施。

Humberto Bravo Álvarez, Ph. D., Atmospheric Sciences Center, UNAM 终对它进行评估和改 Atmospheric Sciences Center, Orecan.

Sergio Aguayo Quezada, Ph. D., El Colegio de México Víctor Lichtinger, B. A., Environmental

Héctor Mayagoitia Domínguez, Ph. D., IPN

Marisa Mazari Hiriart, Ph. D., Instituto de Ecología, UNAM Alfonso Iracheta, Ph. D., Colegio Mexiquense Rodolfo Lacy, M. Sc., Centro Mario Molina Odón de Buen, engineer, Consultant Representative

Leonardo Álvarez, Environment and Ecological Protection Commission, Legislative Assembly of the Federal District

Rep. Bernardo Navarro, UAM, Campus Xochimilco Rep. Ma. Eugenia Negrete Salas, El Colegio de México

Gabriel Quadri de la Torre, Engineer, Environmental Consultant

Ana Romero Salcedo, M.B.A., Presencia Ciudadana Mexicana, A. C.

Isabelle Romieu Romero, Ph. D., Instituto Nacional de Salud Pública. (INSP) Jorge Sánchez Gómez, Engineer, FEMISCA Carlos Sandoval Olvera, CONIECO, S. A. Sylvie Turpin Marion, Ph. D., UAM, campus Eduardo Vega, M.B.A, Facultad de Economía UNAM

Lorenzo Ysasi, B.A., National Chamber of Commerce, Mexico City

绿色计划评估与监督委员会

Humberto Bravo Álvarez,博士,大 气科学中心,UNAM Sergio Aguayo Quezada,博士,El Colegio de México Víctor Lichtinger,学士,环境顾问 ーラー、テエ、 外児駅門 Héctor Mayagoitia Domínguez、博士 , IPN

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Rodolfo Lacy, 工科硕士, Centro Mario Molina

Odón de Buen, 工程师, 顾问代表 Leonardo Álvarez,环境和生态保护 委员会,联邦区立法会 代表, Bernardo Navarro, UAM, Campus Xochimilco

代表,**Ma. Eugenia Negrete Salas**,El Colegio de México - Gabriel Quadri de la Torre,工程师, 环境顾问

Ana Romero Salcedo, 工商管理硕士 Presencia Ciudadana Mexicana, A. C Isabelle Romieu Romero, 博士, Instituto Nacional de Salud Pública (INSP)₀

Jorge Sánchez Gómez,工程师, FEMISCA Carlos Sandoval Olvera, CONIECO,

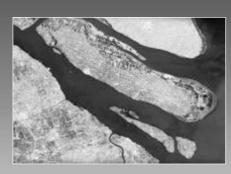
Sylvie Turpin Marion,博士,UAM,campus Azcapotzalco

Eduardo Vega, 工商管理硕士, Facultad de Economía, UNAM Lorenzo Ysasi,文学学士,全国商会 墨西哥城分会



崇明 三岛总体规划

崇明岛是我国第三大岛,是长江入海口的一颗明珠。 2001年5月,国务院正式批复的《上海市城市总体规划 (1999-2020年)》,明确提出崇明、长兴、横沙三岛是21 世纪上海可持续发展的重要战略空间。





崇明 三岛总体规划

2004年7月27日,胡锦涛总书记在视察崇明时,对上海及崇明的发展作出重要指示。2005年5月18日,国务院正式批复同意长兴、横沙两岛划归崇明县管辖。编制三岛联动规划对上海未来发展具有十分重要的意义。





崇明 三岛总体规划

一、现状条件分析

崇明三岛现状包括13个镇、3个乡和3个国营农场、2个军垦农场。三岛陆域总面积为1411平方公里,其中崇明岛1267平方公里,长兴岛88平方公里,横沙岛56平方公里。三岛现状总人口70.4万,其中崇明岛63.5万人,长兴岛3.6万人,横沙岛3.3万人。



崇明 三岛总体规划

作为上海唯一的国家级生态示范区,崇明三岛的发展具有 生态环境、地理位置、土地资源、岸线条件等诸多优势,但也 面临对外交通不够便捷、经济水平相对落后、市政设施配套不 足等因素制约。





崇明 三岛总体规划

中央领导对崇明发展的高度重视和关注,市委、市政府举 全市之力支持崇明生态岛建设的战略举措,以及上海长江隧桥 工程的启动建设,为崇明未来跨越式发展提供了重大的机遇。





二、发展目标和功能定位

崇明的发展要以科学发展观为统领,按照构建社会主义和谐社会的要求,围绕建设现代化生态岛区的总目标,大力实施科教兴县主战略,坚持三岛功能、产业、人口、基础设施联动,分别建设综合生态岛、海洋装备岛和生态休闲岛,依托科技创新,推行循环经济,发展生态产业,努力把崇明建成环境和谐优美、资源集约利用、经济社会协调发展的现代化生态岛区。





崇明 三岛总体规划

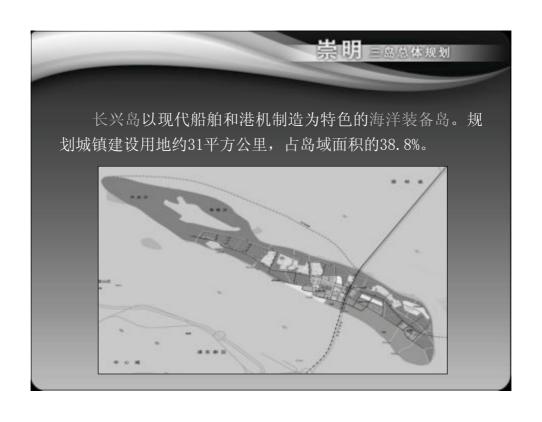
崇明三岛总体规划提出系统的指标体系,包括经济发展 指标、环境发展指标和社会发展指标三大类共计19项。

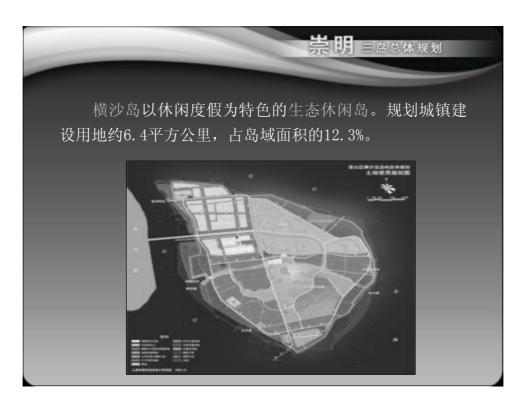




			崇明 三岛总体规							
	240V140E			Formula						
指标		单位	島城現状	年日梓	島城2020 年日報	要达陶家 以上水平	中科技基 本現代化 指标体系	国家生态市 建设指标	上海2020 年全市総計	
STREET, STREET	JUIGOP	美荒	1200	4000	20000	10000	>5000	≥4000		
	第三产业占COP比重		40	45	65	65	60	⇒45		
	研发投入占GDP比重	%	1	2	3	2.2-3	>3			
	申信GDP能被消耗	吨标煤/万元	1.0	0.85	0.5			≤1.4		
环境发展指标	森林整洲草	- %	13.6	26	55	30		≥15		
	地東水区境质量		W. HERE	11-11	1 - 1 + R24			-		
	大气环境质量	级	1-2	1-2	1	1	≥2	-19,3008.6		
	越越生活为大阪中央理事	1%	-	30	100		>60	>70%		
	网络大腿的现在分词	- %	147.000	60	100		>80	100%		
	工业用水钢环利用章	- %	8.33	25	60			>50%		
	人均公共採地製明	平方米		10	20		>10	>11		
社会发展指导	手均抵期有命	3	76.3	77	80	77.5	15000	-		
	活的人口大专学生北麓	- %			50			≥30		
	教育支出占GDP比重			3.5	5	5.4	>5			
	人均減性期限	平方米			35	35	>30			
	4人用机工业数	J.		>5	6.5		>5			
	1105/1524			90	100	90-100				







(一) 四类规划区域

遵循"循环经济和可持续发展"的理念,依照不同 区域的生态保护和发展要求,将三岛划分为四类区域:



崇明 三岛总体规划

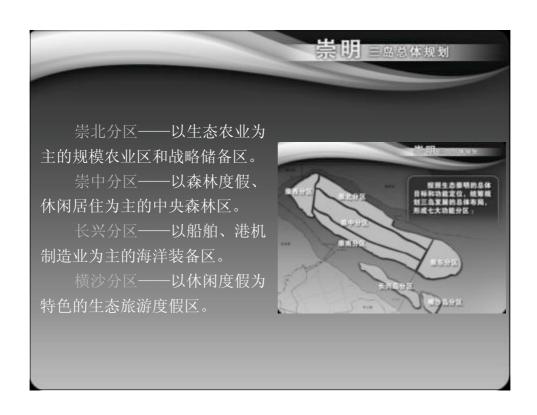
永久保护区,是指禁止开发建设的区域,只允许进行生态 培育和维护,允许适度的人群入内活动,如科研实验、观测、 观光等,永久保护区约占三岛土地面积的55%。

开发控制区,是指以生态保护为主,允许人类在其间进行适度生产、生活的区域,约占三岛土地面积的20%。

战略储备区,是指为市级重大项目入三岛预留的发展备用 地,约占三岛土地面积的10%。

适度建设区,是指规划期内的可建设发展用地,包括城镇 建设用地和产业用地,约占三岛土地面积的15%。

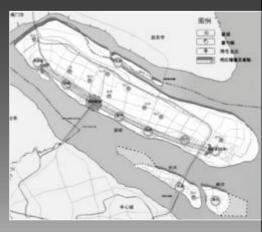




四、人口规模与城镇分布

(一)人口规模

规划至2020年,三岛 人口规模控制在80万以 内。其中,崇明岛人口规 模控制在65万以内,长兴 岛规划人口13万左右,横 沙岛规划人口2万以内。



(二)城镇体系 按照统筹城乡、协调发展的要求,规划形成"新城一新市镇一中心村"的三级城镇体系。 1个新城——城桥新城。城桥新城是三岛的政治、经济、文化中心和水上门户,规划建设成为田园城市、亲水城市和宜居城市,规划人口20万。

9个新市镇——包括堡镇、凤凰、新河、向化、庙镇 5个综合型新市镇和陈家镇、明珠湖、北湖、新民4个休 闲型新市镇,规划总人口42.5万。其中,崇南链状新市 镇群将成为三岛经济和人口集中的主要导入地带。

200个左右中心村——加快推进"三个集中"发展战略,将现有的自然村落逐步予以归并,规划形成200个左右中心村,总人口约为17.5万。

崇明 三岛总体规划

五、产业发展规划

根据建设生态岛的总体目标,崇明三岛要积极创造条件,逐步实现三次产业的融合发展。





崇明产业发展的重点是:

(一) 旅游度假和户外运动产业

重点发展户外假日运动基地、大型主题乐园、度假和休 疗养中心、国际邮轮、长江游艇停泊港和农家乐旅游等。





崇明 三岛总体规划

(二)现代观光农业

大力推进以高效生态农业为主的现代农业,重点发展绿色种养业、观光农业,建设明珠湖生态观光园、东平国家森林公园、前卫村生态农业示范区等三大观光农业基地。





(三) 现代办公服务业

崇明拥有上海地区最接近大自然的良好生态环境,有条件 建设上海现代服务业高地、吸引国际组织和公司总部进入。主 要发展方向包括跨国公司总部、研发中心、国际组织机构所在 地、国际高等教育办学区、商务会展设施等。







崇明 三岛总体规划

(四)海洋装备及清洁型工业

倡导循环经济,推行清洁生产。重点依托长兴岛发展船舶制造和港机制造产业,拓展海洋装备产业的发展空间;依托现代化农业园区,发展具有自然资源优势的绿色食品加工业;依托绿色产业园区,发展具有现代生态理念的科技密集型产业;依托市级工业园区,发展能创造较多就业岗位的都市型工业。





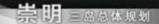
六、公共服务设施和市政基础设施规划

(一) 公共服务设施规划

按照构建社会主义和谐社会的要求,合理配置公共服务设施,重点包括:

- 1、教育:规划在崇明岛(城桥、陈家镇、堡镇)布置五所高级中学。在长兴岛建设1—2所高中,横沙岛建1所完全中学。
- 2、医疗:规划在崇明岛建准三级标准的全岛医疗服务中心,完善三岛公共卫生体系。
- 3、文化:在新市镇按照不低于7000平方米的标准,建设社区公共文化设施,并相应设置文化休闲广场。
- 4、体育:规划在城桥新城建设体育中心;在各新市镇设置 社区级公共体育设施。





1、道路交通规划

崇明岛形成"一环三横十 五纵"的公路网络。长江隧桥 及沪苏高速公路(A14)按双 向6车道设计,局部地区分离 为风景区快速道路,体现生态 岛的公路建设特色和亮点。

规划预留长江越江通道西 线(A13)方案。沪苏高速公 路与崇明岛上的陈海一级公路 构成公路的主环。



崇明 三岛总体规划

2、轨道交通规划

依据上海市轨道交通系统规划,轨道交通9号线将经长兴岛延伸至崇明。目前有关部门正在结合长江隧桥工程建设,研究同步建设9号线至三岛的可行性。







3、水路交通规划

进一步改善和发展三岛与上海市 区的水上交通。在长兴岛建设中心渔 港。规划在城桥新城、陈家镇、横沙 岛设置旅游码头。在新河港设置集装 箱码头。

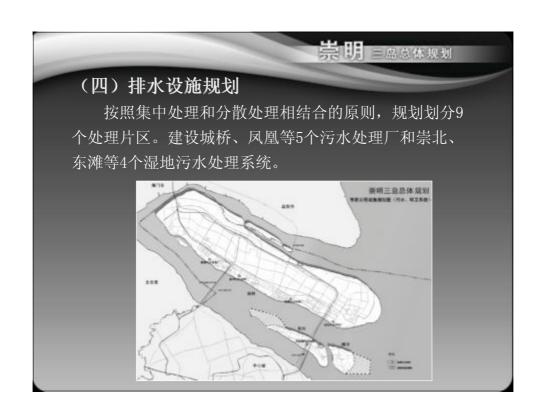


规划在陈家镇、明珠湖休闲度假 区以及横沙岛北侧设置直升机起降 点,满足特定需求。











(二) 绿化系统建设

以公共绿地和生态景观区建设为重点,通过环岛防护林带、水源涵养林和通道林以及具有四季特色的森林公园的建设,形成完善的城乡森林网络体系,进一步提高崇明三岛的森林覆盖率,达到55%。

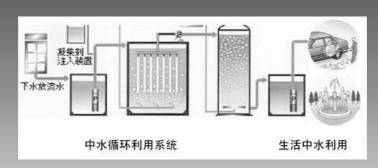




崇明 三岛总体规划

(三) 垃圾污水处理

加强垃圾和污水的处置及循环利用。实施从生活垃圾源头 到最终处置进行全过程管理,推动固体废弃物的减量化、无 害化和资源化进程。



(四) 清洁能源利用

进一步改变能源结构,积极推广清洁能源的使用。启动建设崇明东滩风力发电厂一期,进一步建成产业化运作并具有相当规模的风能发电场。在建筑(尤其是生态建筑)中广泛使用太阳能,成为建筑设计指导性要求。





崇明 三岛总体规划

八、近期建设的重点地区

(一) 城桥新城—森林公园地区

城桥新城总体规划已经市政府批准。规划用地面积28平 方公里,规划人口20万,建设以田园风貌为特色的现代化的 海岛花园新城。

东平国家森林公园是崇明岛目前主要的旅游接待区。规 划区总面积约99.6平方公里。

(二) 陈家镇-东滩地区

企业的建设,全面推进长兴海 洋装备岛的开发,加快市政基 础设施建设,同步建设好凤凰 新市镇。长兴岛规划人口约13

陈家镇地处崇明岛东部,是上海试点建设城镇之一。 《陈家镇总体规划》已经市政府批准。规划人口10-12万人, 城镇建设用地12平方公里,规划将建成为海岛花园式的生态 城镇。

陈家镇一东滩地区规划占地约220平方公里,资源丰富,生态环境优越,拥有国际重要的东滩湿地及国家级鸟类自然保护区、中华鲟等自然保护区。近期将重点建设一个体现国际先进理念和水准的"生态实验社区",与上海2010年世博会相呼应。

(三)长兴海洋装备岛 长兴岛是上海近期重点建 设的六大产业基地之一,也是 配合世博会的产业动迁基地。 规划结合中船集团、振华港 机、中海集团等海洋装备大型









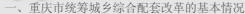


- 一、重庆市统筹城乡综合配套改革的基本情况
- 1. Basic Situation

2007年3月8日,胡锦涛总书记在参加重庆代表团讨论时发表重要讲话,为重庆"定向导航",作出"**314**"总体部署,要求重庆加快建设成为城乡统筹发展的直辖市。

President Hu Jintao visited Chongqing and encouraged the acceleration of integrating urban-rural harmonization and development





1. Basic Situation

"3 1 4"总体部署 Strategy

三大定位

努力把重庆加快建设成为西 部地区的重要增长极、长 江上游地区的经济中心、 城乡统筹发展的直辖市;

一大目标

在西部地区率先实现全面建设小康社会目标;

Positioning

(1)One pillar for western China development (2) Economic Center for Upstream of Yangzi River, and (3) Harmonized Urban-Rural development of Central-Control Municipal

Goal

Achieve the target that the whole society reach equal, well-off, socioeconomic status

统筹城乡改革试点工作

一、重庆市统筹城乡综合配套改革的基本情况

1. Basic Situation

"314"总体部署

Strategy

四大任务

- 加大以工促农、以城带乡力度,扎实推进社会主义新农村建设;
- 切实转变经济增长方式,加快老工业基地调整改革步伐;
- 着力解决好民生问题,积极构建社会主义和谐社会;
- 全面加强城市建设,提高城市管理水平。

Taskforces

- Promote industry development, enhance agriculture development, promote the construction of modern rural development
- Transform the economic growth pattern, reform the older industrial base
- Address life quality issues, promote harmonized social development
- Enhance the construction and administration of urban development



、重庆市统筹城乡综合配套改革的基本情况 综合配套改革试验的主要目标

Goals for the pilots of integrated urban-rural development

- 全市经济总量比2006年翻一番以上,人 均地区生产总值超过27000元;
- 非农产业增加值比重超过90%,非农产 业就业比重达到65%;
- 万元GDP综合能耗降低25%达到1.08吨标 准煤,森林覆盖率达到38%;
- 城镇化率达到55%以上,城镇户籍人口 增加300万人;
- 城乡居民收入差距缩小到3:1,圈"与"两翼"人均GDP之比缩2.2:1。 人均GDP之比缩小到



By 2012

- GDP doubled from that in 2006, and GDP per capita reach 27,000RMB
- Non-Agriculture growth account for 90% total growth, employment for nonagriculture reach 65%
- Energy Intensity reduced by 25% and reach 1.08TCE/10K RMB, and forest cover rate reach 38%
- Urbanization rate reach 55%, urban population increase by 3M.
- Income difference ratio between urban and rural reach less than 3:1, and GDP ratio between Center Chongqing and rural area decrease to 2.2:1

统筹城乡改革试点工作

、重庆市统筹城乡综合配套改革的基本情况

1. Basic Situation

2020年

- 全市经济总量比2012年翻一番以上,人均地区生产总值超过 65000元;
- 非农产业增加值比重超过95%, 非农产业就业比重达到80%;
- 万元GDP综合能耗降低20%达到 0.86吨标准煤,森林覆盖率达 到40%;
- 城镇化率达到70%以上,城镇户 籍人口增加700万人;
- 城乡居民收入差距缩小到 2.5:1, "一圈"与"两翼" 人均GDP之比缩小到1.9:

By 2020

- GDP doubled again from that in 2012, reach 65,000 per capita
- Non-Agriculture growth account for 95% of total growth, non-agriculture employment account for 80% for total job positions
- Energy Intensity reduced by another 20% and reach 0.86 tce/10K RMB, forest covering rate reach 40%
- Urbanization rate reach 70%, urban population increase by 7M.
- Income difference ratio between urban and rural reach less than 2.5:1, and GDP ratio between Center Chongqing and rural area decrease to 1.9:1







- 3. 推动三级城镇建设, 合理吸纳富余人口
- 主城区重在完善功能、集聚产业,吸引较高素质人口聚集,进一步增强核心竞争力和辐射功能。
- 区县重在做大做强、扩大容量,加快人口就业性转移进程,进一步增强以城带乡的传导功能。
- 小城镇重在优化布局、改善条件,适度吸纳人口就业安居,进一步增强沟通城乡的基础功能。



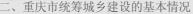
- For city core, enhance function, consolidate industry and convene high quality people, enhance the core competition and influence
- For county level cities, enhance the capacity and promote the shift from agriculture to non-agriculture employment, enhance the influence to rural area
- For small towns, optimize city layout, improve the living situation, attract people to stay, and enhance the relationship with rural area



统筹城乡改革试点工作 一、重庆市统筹城乡综合配套改革的基本情况 4. 抓住六个关键环节,建立农民工双向流动制度 Six key elements to enhance the free flow of farmers between city and rural 社保解忧 技能培训 **Social Security Skill Training** 服务均衡 ◎ ◀ 就业指导 关键环 **Employment Neutral Service** Guiding 转户进城 安居扶持 Easy shift to urban Support for residents staying







2. Current Status

9月20日, 国务院正式批准重庆市城乡总体规划。

规划至2010年全市总人口3千万人,城镇人口1615万人,城镇化水平达53.8%;至2020年总人口为3100万人,城镇人口2160万人,城镇化水平达到70%左右。

规划至2020年形成一个特大城市,六个大城市, 25个中等城市和小城市,495个左右的小城镇的 城镇体系。



Urban-Rural Development Master Plan was approved by the State Council on Sept. 20

Upon the plan, by 2010, population reaches 30M, where 16.15M in city, urbanization level is 53.8%; by 2020, population reach 31M, and urbanization level reaches 70%

By 2020, forms a city complex with one metropolitan, 6 big cities, 25 middle size city and 495 small towns

统筹城乡改革试点工作

二、重庆市统筹城乡建设的基本情况

2. Current Status

我们在城乡建设中,将按照城乡总体规划要求,进一步加大城乡建设统筹力 度,继续加强城市基础设施建设的同时,要在统筹城乡基础设施建设上迈出实质 性步伐,加快村镇基础设施建设,缩小城乡居民享有基础设施服务水平的差距。

Enhance the pace of harmonizing urban-rural development, enhance the rural infrastructure development, and reduce the gap of infrastructure service level between urban and rural area





重庆市统筹城乡建设的基本情况

2. Basic Status

积极实施村镇基础设施建设"七大工程",切实改善农村水、电、路、 气、讯、环卫等设施。

7 key engineering projects for rural infrastructure development

农村畅通工程

农村饮水工程 农村治污工程

农村能源工程

农电保障工程

农村通信工程

Transportation system

Drink water treatment

Pollution control

Energy Supply

Agriculture electricity supply

Communication

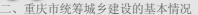
Housing and re-construction

统筹城乡改革试点工作

- 重庆市统筹城乡建设的基本情况
- 2. Current Status
- 1. 农村畅通工程
- 至2012年, 计划投资172亿元, 新建乡村公路46万公里,实现 100%的行政村通达,100%的镇 乡和50%以上的行政村公路实现 油化、硬化 (通畅)。通村公 路尽可能向农民集中聚居点延 伸。
- 至2012年, 计划投资7.6亿元, 力争完成20000个集居20户以上 自然村的步行便道,修建便道 2-3万公里。

- 1. Rural Transportation System Development
- Plan to invest 17.2 trillion RMB by 2012 to develop 460,000km rural roads, and ensure 100% road access to villages and towns, half of the roads are high quality and reach the houses of farmers
- By 2012, invest 760 million RMB to establish the walkway system for over 20,000 small villages with more than 20 households





- 2. 农村饮水工程
- 2. Drink water treatment
- 至2012年,镇乡用水普及率 达到80%以上,水质基本达 标。村用水普及率达 到 50%,水质基本达标。
- By 2012, water treatment system cover 80% of the towns, and water quality reach the national standards, water treatment system cover 50% of the villages and water quality meet the national standards.



统筹城乡改革试点工作

二、重庆市统筹城乡建设的基本情况 Current Situation

3. 农村治污工程

至2012年,总投资5亿元,建成400个镇乡简易污水处理设施。在市域范围内,总理设施。在市域范围内,总进行垃圾处理厂布点,设施。投资2.5亿元,修建镇级保发。500个镇乡垃圾处理厂,收运商人处理。积极推广高、业大量,企业的形式,实现上,并及率50%以上。

3. Pollution Control

• By 2012, invest 500M RMB to establish 400 simple waste water treatment facilities. Locate reasonable solid waste treatment plants with total investment of 250M. Establish transfer stations and solid waste treatment plants that ensure the deposit of 500 towns. Promote integrated animal feeding, hygienic toilets, and methane-generating pit system, and make it popular for 50% usage of the total toilets



二、重庆市统筹城乡建设的基本情况

The Contemporary Status of Urban-Rural Coordinated Reform in Chongqing

- 4. 农村能源工程
- 至2012年,发展农村沼气池170万口,力争沼气普及率达到60%,完成 大中型畜食规模养殖场沼气工程400处,总投资27.41亿元,配套建设 沼气服务体系。推广运用秸杆气化炉和大中型秸杆气化生物技术。
- 4. Rural Energy Supply

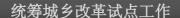
By 2012, develop 1.7M methane-generating pit, and cover 60% the rural energy use. Develop 400 large-medium size methanegenerating plants using animal feeding, with total investment of 2.74 B, establish affiliated service system and promote the crop gasification stove and biologic technologies.



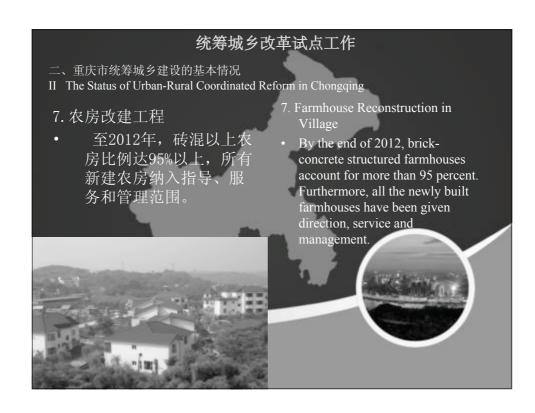
统筹城乡改革试点工作

- 二、重庆市统筹城乡建设的基本情况
- The Contemporary Status of Urban-Rural Coordinated Reform in Chongqing
 - 5. 农电保障工程
 - 对一、二期农网建设变电 站进行双电源双变及自动 化改造,提高供电质量和 供电可靠性。至2012年, 总投资87.7亿元。
- 5. Rural Electricity Security Engineering
- To achieve double-power supply and automatic control technology in the I, II Rural Power Network Substation, so that the quality and reliability of the power supply would be improved. By the end of 2012, the total investment will reach 8.77 billion US dollars.





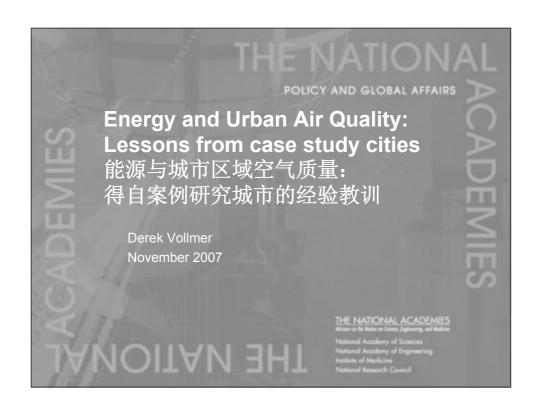
- 二、重庆市统筹城乡建设的基本情况
- II The Contemporary Status of Urban-Rural Coordinated Reform in Chongqing
 - 6. 农村通信工程
 - 至2012年,全面解决我市 所有20户以上集居的自然 村的通电话,实现所有 中心镇宽带接入。
- 6. Rural Communication Engineering
- By the end of 2012, we hope to help natural villages with more than 20 households have communication equipment and help central towns have access to broad band.



目前,重庆统筹城乡综合配套改革工作正处于 探索和试验阶段,工作刚刚起步。希望得到国内外 市长和专家、学者对重庆市建设和发展的关注和支 持。

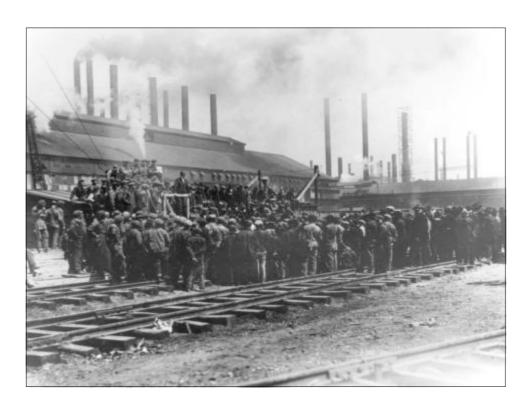
The Urban-Rural Coordinated Reform in Chongqing so far is in an exploration stage. Therefore, we hope mayors and experts at home and abroad could pay more attention to the construction and development of Chongqing.











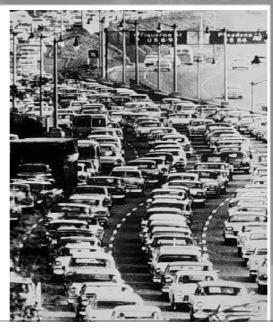




Traffic on World's First Freeway

世界上第一座高速公 路交通状况





Current

Frame Monteractions between federal, state, and local government, as well as:

- Citizen involvement
 - Groups educating the public on air pollution, clean transportation and energy alternatives
- University research
 - Research on pollution sources/impacts, clean energy, green building, etc.
- Complimentary local initiatives on clean energy and climate protection
 - Alternative energy targets
 - Climate Protection Initiatives

当前概况

- 联邦,州和地方政府间的 重要互动,例如:
 - 公民的参与
 - 对公众进行空气污染,清洁交通和替代能源方面的教育
 - 大学的研究
 - 开展污染源及其影响,清洁能源和绿色建筑等方面的研究
 - 州和地方关于清洁能 源和气候保护方面的 补充动作
 - 替代能源的目标
 - 气候保护的动作

Lessons learned from U.S. cities

- Retrofits are costly but necessary to mitigate costs of pollution impacts
- Stricter standards yielded results without detriment to the economy
- Energy efficiency (particularly in existing buildings) is still not being fully realized
- Personal vehicles now a major energy consumer and air pollution source
- Transit-oriented design, urban infill create opportunities to slow sprawl and decrease vehicle use

从美国城市得到的经验教训

- 设备改造花费高昂但却是 减轻污染影响代价的必要 之举
- 更严格的标准起到了效果 并且并未损害经济
- 建筑,尤其是现有建筑的能效并未完全实现
- 私人车辆现已成为一个能 耗大户和主要空气污染源
- 针对客运的城市设计和城区回流创造了减缓城市扩张和减少车辆使用的机会

COSTS OF CONTROL

<0.1% GDP per year

BENEFITS OF CONTROL

~\$44 in health benefits for each \$1 of control (1970-1990)

~\$4 in health benefits for each \$1 of control (1990-2010)

>0.1% GDP in revenues for air pollution control

污染控制代价

少于国内生产总值的0.1%

污染控制利益

污染控制上每1美金花销带来约44美金在健康方面的收益 (1970-1990)

污染控制上每1美金花销带来约 4美金在健康方面的收益 (1990-2010)

空气污染控制为全国带来的岁 入大于国内生产总值的0.1%

Huainan: Setting and Goals 淮南:架构和目标

- Major coal production region
- Economy dominated by coal and chemicals production and agriculture
- Research capacity through Anhui University of Science and Technology and local industries
- Goals target major expansions of coal and electricity production

- 主要产煤区
- 经济由产煤,化工和农业主导
- 安徽理工大学和当地工业企业的研究实力
- 目标锁定于产煤和发电的主要扩展项目

Lessons and opportunities

- Closing down highly polluting and inefficient industries yielded substantial improvements
- Adopting advanced pollution controls and cleaner coal conversion technologies
- Need for expanded monitoring and access to data
- Need to examine PM2.5 and additional sources of pollution, including waste and agricultural burning

经验教训和机遇

- 关停高污染低能效工 业企业收效显著
- 采用先进的污染控制 措施和清洁煤转化技术
- 需要更广泛的监测和数据获取
- 需要检查PM2.5和其 他污染源,包括废物 和农业的焚烧还肥

Dalian: Setting and Goals

- Goals Car-oriented, modern coastal city
 - National leader in environmental management and standards
 - Recently constructed LRT, but bike ridership low and city developing laterally
 - Goals target major expansions of shipping industry and energy production

大连:架构和目标

- 适宜车辆使用的现代 濒海城市
- 全国领先的环境管理和标准
- 新近建设了轻轨交通 (LRT),但是自行车使 用率低,城市外延正 在扩张
- 目标锁定于造船业和 能源生产的主要扩展 项目

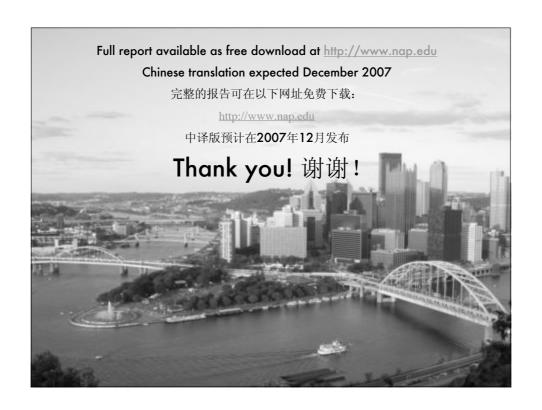
Lessons and opportunities

- High environmental standards did not impair economic growth - may have attracted additional investment
- Making energy efficiency a priority - 30% of new buildings are energy efficient
- Developing CCHP, renewable energy, and working with industries on utilizing waste heat
- Seeking help on managing transportation infrastructure and port expansion

经验教训和机遇

- 高的环境标准并未损害经济发展,反而吸引了更多的投资
- 以能效为要务之一,30%的新建筑为高能效型
- 正在发展冷热电联产系统 (CCHP),可再生能源, 与工业界合作利用余热
- 正在寻求交通基础设施和港口扩展方面的帮助

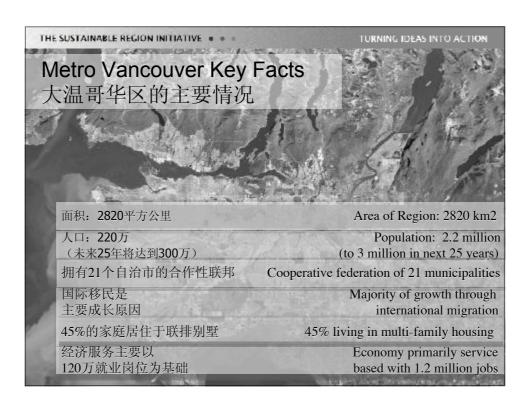












THE SUSTAINABLE REGION INITIATIVE . .

TURNING IDEAS INTO ACTION

Metro Vancouver's Role 大温哥华区的作用

- Provide utility services

 (e.g. drinking water, sewage treatment, recycling and garbage disposal) where regional cooperation benefits members
- Protect and enhance quality of life - manage growth and development, while protecting air quality and natural areas
- 提供公用事业服务 (如饮水,污水处 理,再循环和垃圾 处理),各成员因此 而受益于区域合作
- 保障并提高生活质 量 - 谋求成长与发 展的同时,保护空 气质量和自然环境



THE SUSTAINABLE REGION INITIATIVE . . .

TURNING IDEAS INTO ACTION

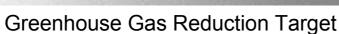
Sustainability Principles Sustainable Region Initiative

- Sustainable Region Initiative is framework for all Metro Vancouver actions
- Commitment to value longterm in plans and actions
- Conserve and develop natural, economic and social capital

可持续性的原则

- 可持续区域计划是整个大 温哥华区方案的工作框架
- 承诺长期对该计划与方案 的重视
- 自然、经济与社会资产的 保护与发展





 2007 provincial commitment to reduce GHG emissions by 33% by 2020

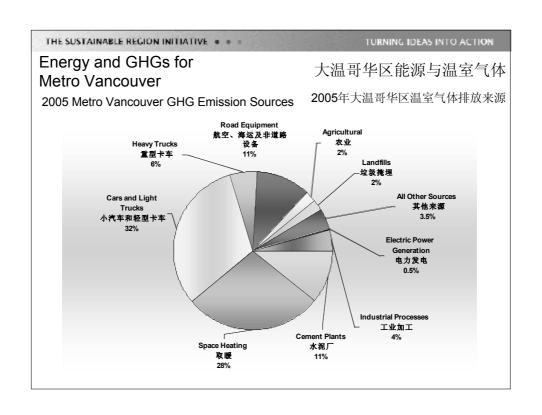
THE SUSTAINABLE REGION INITIATIVE . . .

温室气体减排目标

2007年大温哥华区承诺到 2020年减排温室气体33%

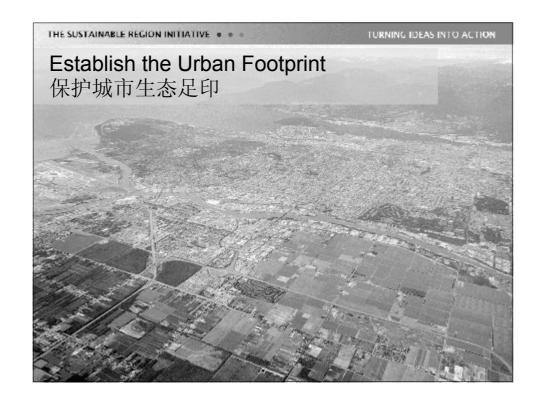


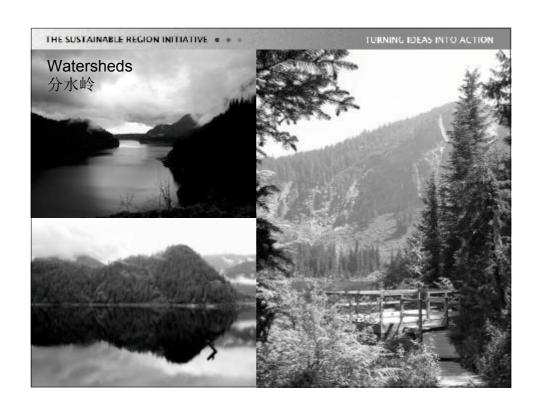
TURNING IDEAS INTO ACTION









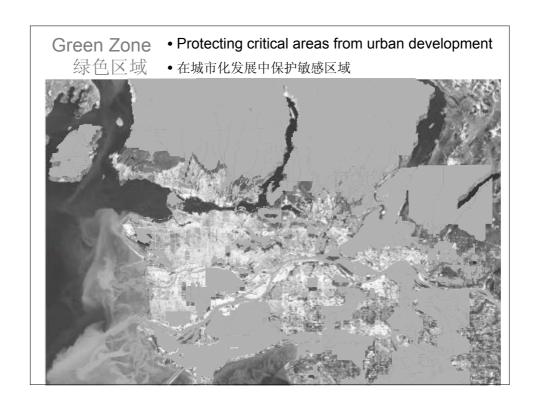


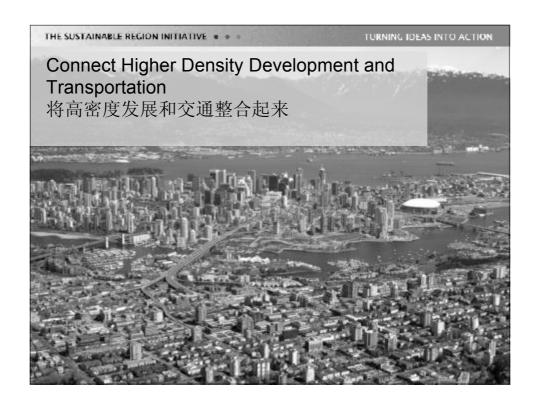












THE SUSTAINABLE REGION INITIATIVE . . .

TURNING IDEAS INTO ACTION

Strategies 战略

- Focus population and job growth in the established urban area
- · Encourage more jobs close to housing
- Develop a network of mixed use, dense urban centres linked by high-capacity transit
- Provide transportation services to support population and employment targets
- Diversify housing types
- 关注现有城市区域的人口和就业增长
- 鼓励更多的就近就业
- 发展大容量公交系统联接的综合土地利用和密集城市中心开发
- 住宅形式多样化
- 提供可以满足人口增长和就业需求的交通服务



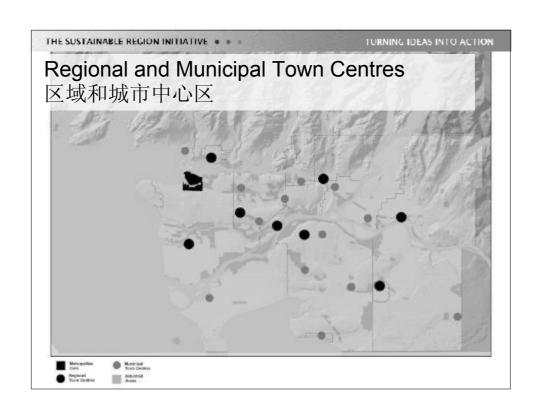


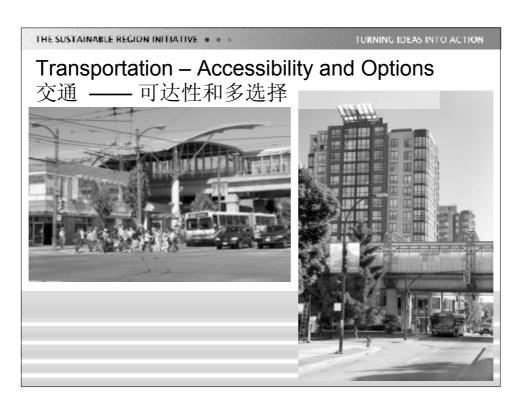




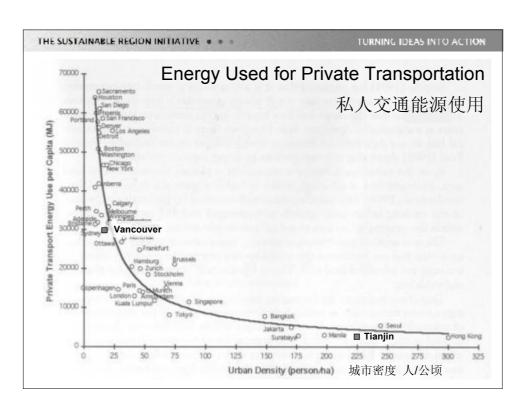












Strategies

战略

- Manage Land Use
- Significantly expand public transit, walking and cycling choices

THE SUSTAINABLE REGION INITIATIVE . . .

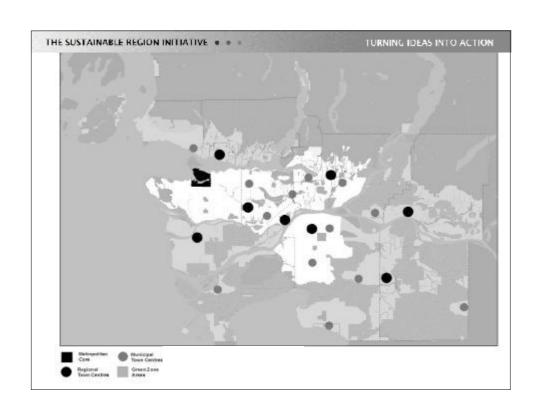
- Manage transportation demand
- Increase transportation capacity
- 控制土地使用
- 大力发展公共交通、步 行和自行车道

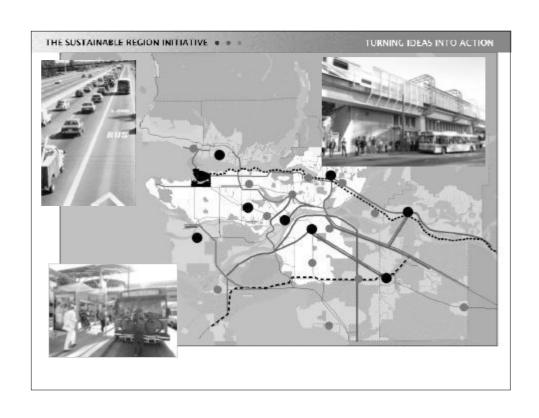
TURNING IDEAS INTO ACTION

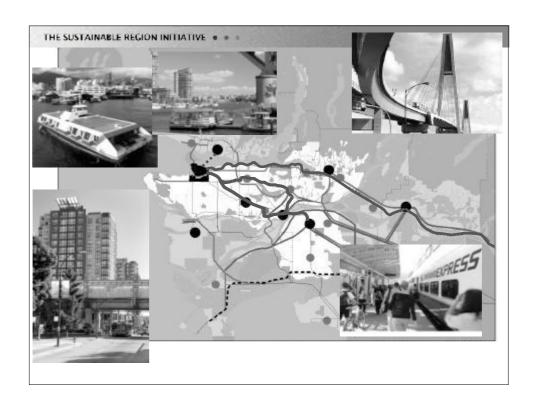
- 控制交通需求
- 提高交通运能

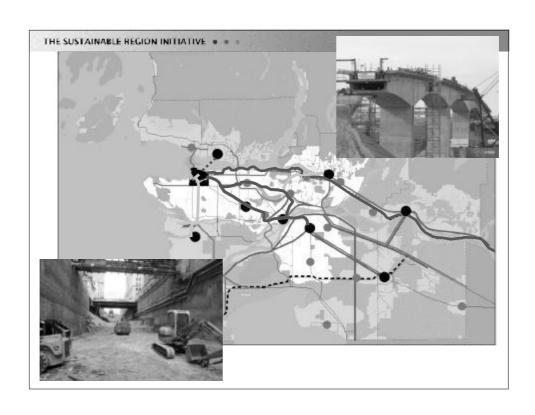


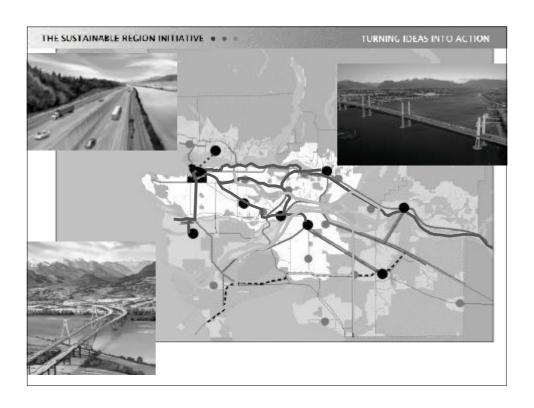




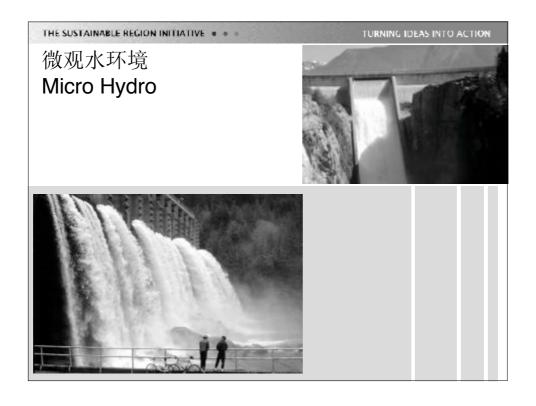


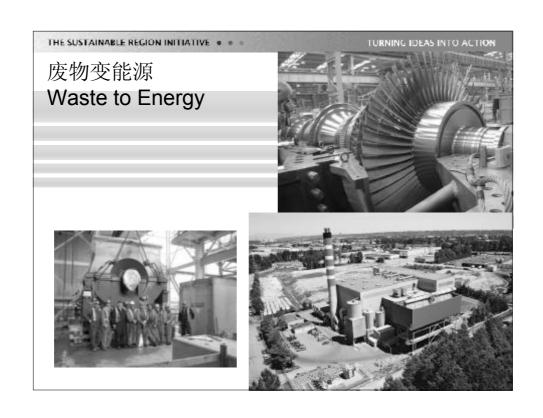










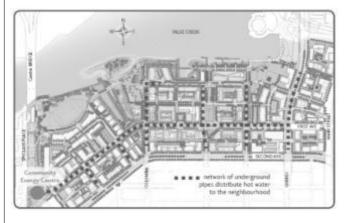








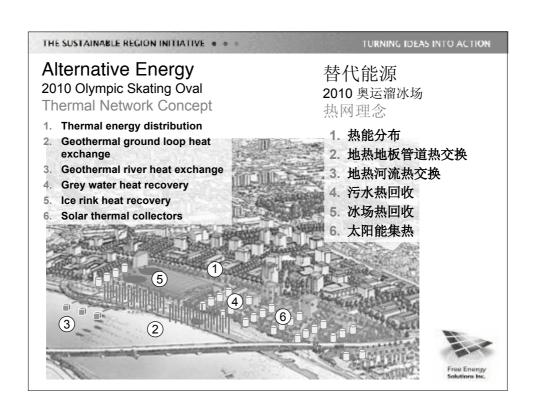
Alternative Energy and Green Buildings Sewer Heat Recovery – 2010 Olympic Athletes' Village 替代能源和绿色建筑 废水热回收—2010 奥运村

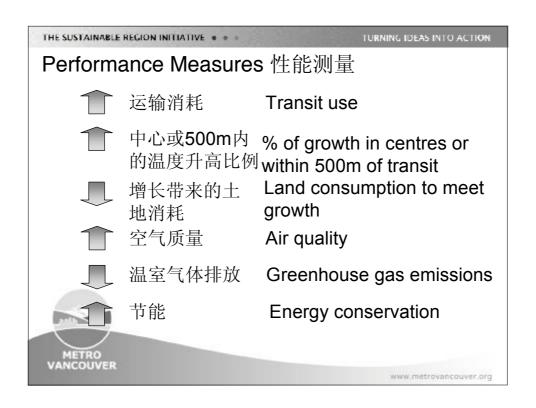


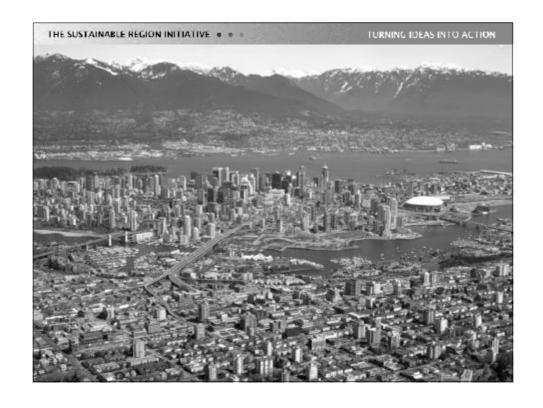
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TURNING IDEAS INTO ACTION









Urbanisation, cities and climate change 城镇化、城市与气候变化



November 2007 2007年11月

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- >Urbanisation and city emissions 城镇化和城市排放情况
- >McKinsey cost curve 麦肯锡成本曲线
- >City examples 城市案例
- >Policies and plans 政策与计划
- >Role of business 商业角色
- >Conclusion 结束语



Urbanisation and city emissions 城镇化和城市排放情况

Opportunities 机遇

- > Cities are financial, intellectual and cultural centres 城市是金融、知识和文化中心
 - This concentration = opportunity 功能集聚=机遇
- > Cities offer low carbon potential 城市具有低碳排放的潜力
 - Concentration of population and opportunities 人口和机遇的集聚
- > Political and economic opportunities 政治和经济机会
 - Significant 意义重大
- > If we can't get cities to be low carbon, then what? 如果不能促成城市的低碳排放, 那我们还能做什么呢?

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Urbanisation and city emissions 城镇化和城市排放情况

Urban population 城镇人口

- > 50 percent of total global population in urban centres 城镇地区聚集了全球50%的人口
- > By 2030 global urban population is predicted to increase by 1.8 billion 据预测。到2030年全球城镇人口将增长18亿
- > Annual urban population increase is equal the total population of the world's eight largest cities 全球每年增加的城市人口相当于世界前八大城市的人口总和
- > Approximately 40% of China's population live in cities, expected to reach 70% by 2050 在中国,大约40%的人口居住在城市,到2050年这个比率将达到70%

Urbanisation and city emissions 城镇化和城市排放

Climate change emissions from urban centres 城市中心区排放源

> Globally 75-80% of global GHG emissions are directly or indirectly related to urban areas

全球温室气体排放量的75-80%直接或间接的与城市化地区相关

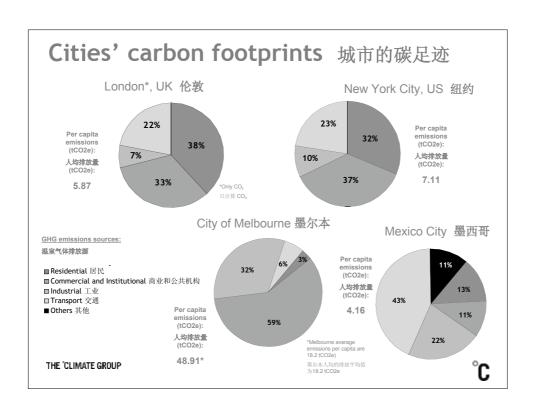
> Direct sources include emissions from the following sectors 直接排放源包括以下四个:

Residential 居民 Commercial and the public sector 商业和公共部门

Industrial 工业 Transport 交通

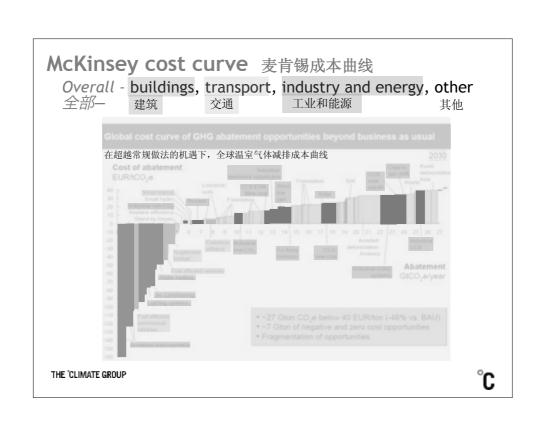
> Indirect sources include agriculture (emissions from food and natural resource production), and land use change including deforestation. 间接排放源包括农业(食物和自然生产的排放)和土地利用方式的变化(森林砍伐)

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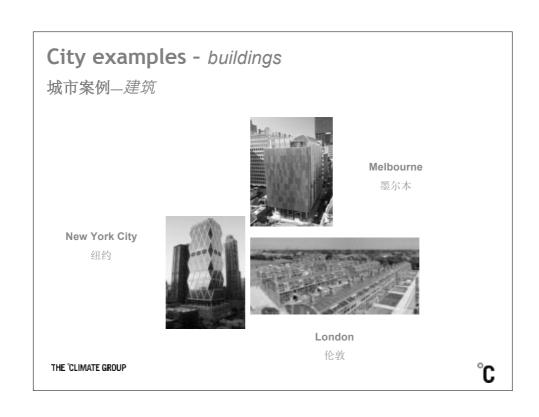
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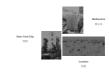
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City examples - buildings

城市案例—建筑





New York City 纽约

√The NY Energy Efficiency Authority offers incentives for buildings with higher energy savings and environmental performance.

纽约能源效率管理局鼓励建设高能效的环保建筑

✓ In 2006, Hearst Tower is the first building to receive a Gold LEED (Leadership in Energy and Environmental Design) certified rating for "core and shell and interiors" in New York City.

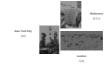
2006年,赫斯特大厦以其"核心、架构和内饰"的设计成为纽约市第一个被授予LEED(能源环境设计先锋)金质认证的建筑

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City examples - buildings

城市案例—建筑



Melbourne

墨尔本

√The new City Hall is Australia's first purpose built office building to achieve a six star rating. It will receive 40% of its electricity (60kW) from a gas-fired co-generation plant. Recycled waste heat from the cogeneration plant will provide 40% of the building's supplementary air heating/cooling system.

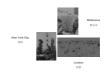
✓新城市大楼是澳大利亚国内首个为达到六星级绿色建筑而建造的大楼,其总用电量(60kW)的40%由燃气发电站供给,而通过循环利用燃气场废热,还可以满足其供暖/制冷系统40%的需求。



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City examples - buildings

城市案例—建筑





London 伦敦

✓BedZed, in the suburbs of London, has reduced from UK averages) its space heating requirements by 88%, hot water by 57%, electricity used by 25% and main water consumption by 50%.

✓位于伦敦郊区的"贝丁顿零能耗发展社区", (与英国平均水平相比),其空间供热的需求量减少了88%,热水的需求减少了57%,电的使用量减少了25%,主要用水的消耗量也减少了50%。

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City examples- Transport

城市案例-交通



Hong Kong 香港



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London

伦敦

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City examples- Transport

城市案例-交通





Mexico City

墨西哥城

✓In Mexico City, the 6,000 Metrobus passengers per hour along Insurgentes Avenue help reduce 35,000 tonnes of CO2 emissions par year in addition to reduce traffic congestion and air pollution.

✓在墨西哥城,沿着Insurgentes大街平均每小时就有6000名乘客乘坐轨道公共列车,除了缓解交通拥挤及空气污染外,也使二氧化碳排放量减少3.5万吨。

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City examples- Transport

城市案例-交通



Hong Kong

香港

√In Hong Kong, the MTR is a very efficient, reliable and affordable mass transit railway. An average of 2.5 million trips a day are done on weekdays.

✓在香港,地铁是一种十分便捷可靠、价格低廉的大众轨道交通。平均每个工作日运行250万趟次。



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City examples- Transport

城市案例-交通





London 伦敦

✓ Since **London's** congestion charge was introduced in 2000, congestion within the zone has reduced by 22 per cent compared to pre-charging levels.

自2000年伦敦引进交通拥挤收费以来,中心区交通堵塞现象比以前减少了22%。

✓ Vehicle traffic inside the zone during charging hours is about 15 per cent below precharging levels, resulting in an estimated CO2 emissions reduction of 16 per cent.

城区收费时段的车流量比收费之前降低了15%, 二氧化碳排放减少了16%。

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City examples - Industry and Energy

城市案例—工业和能源

✓In Ontario, Canada, the company IGRS uses methane emissions from the former Britannia Sanitary landfill site as a fuel to generate 5MW of clean electricity for the Regional Municipality of Peel and thus avoid 250,000tCO2e emissions per annum over 20 years.

在加拿大的安大略湖区,IGRS公司以原有的不列颠垃圾填埋场的沼气为燃料,为Peel市提供了5MW清洁电能,使之在20年内平均每年减少了25万吨二氧化碳的排放。





✓The Port of Seattle released in 2007 a proposed Clean Air Strategy committing the three major regional ports to work closely with environmental regulatory agencies in order to achieve early emissions reductions from maritime-related operations and thus protect public health and the environment.

西雅图于2007年公布了一项清洁空气计划的提议,要求三个主要港口与环境部门密切合作,来减少与海上作业相关的二氧化碳排放,以达到保护环境和保障公民健康的目标。

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City Achievements

各城市减排计划及成效

- >Woking's emission reductions include: 沃金市的减排计划包括:
 - 79% reduction in corporate emissions on 1990, 19% reduction in community emissions on 1990.
 - 与1990年的排放水平相比,企业排放量减少79%,社区排放量减少19%
 - Communications, energy efficiency, fuel switching, renewable energy, sustainable buildings, waste management. 交通、能效、燃料转换、可再生能源、可持续建筑和废弃物管理

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City Achievements

各城市减排计划及成效

- >Berlin's community carbon measures and targets include: 柏林市的社区减排措施及目标:
 - 25% reduction in emissions on 1990 levels by 2010.
 到2010年实现25%的减排目标,达到1990年水平的75%
 - 14% achieved to date. 截止目前已经实现减排14%
 - Energy efficiency, fuel switching, renewable energy, buildings. 能效、燃料转换、可再生能源、建筑。

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City Achievements

各城市减排计划及成效

>Copenhagen's community carbon measures and targets include:

哥本哈根的社区减排措施及目标:

- 35% reduction in corporate emissions on 1990 levels by 2010. 到2010年企业实现减排35%的目标,达到1990年水平的65%
- Energy efficiency, fuel switching, renewable energy and buildings. 能效、燃料转换、可再生能源和建筑

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°C

- >Urbanisation and city emissions 城镇化和城市排放情况
- >McKinsey cost curve 麦肯锡成本曲线
- >City examples 城市案例
- >Policies and plans 政策与计划
- >Role of business 商业角色
- >Conclusion 结束语



Policies and plans 政策与计划

London Mayor's Climate Change Action Plan



*Reduce GHG emissions by 60% by

2025 (20% by 2016)

- •Green Homes Programme
- •Green Organisations Programme
- Decentralise energy supply
- •Reduce emissions from ground based transport

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伦敦市长气候变化行动计划



- •2025年实现减排60%(2016年减排20%)
- •绿色家园项目
- •绿色机构项目
- •分散式能源供给
- •减少来自地面交通的排放

°C

Policies and plans 政策与计划

PlaNYC - A greener, greater New York

- Reduce GHG emissions by 30% by 2030 (33.6MtCO2e pa)
- Avoided Sprawl
- Clean Power
- Efficient Buildings
- Efficient Transportation



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纽约市计划-更绿色、 更出色的纽约

- 2030年实现减排30%
- 。避免无序扩张
- 清洁动力
- 高能效建筑
- 高能效交通



Policies and plans

政策与计划

City of Melbourne – Zero Net Emissions by 2020



- No net emissions by 2020
- Leader in Green Buildings
- Greening the power supply
- Sequester residual emissions

墨尔本市2020年零碳排放计划



- 2020年零碳排放
- 绿色建筑的领引者
- 绿色动力供给
- 消除生活排放

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The Role of Business 商业角色

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