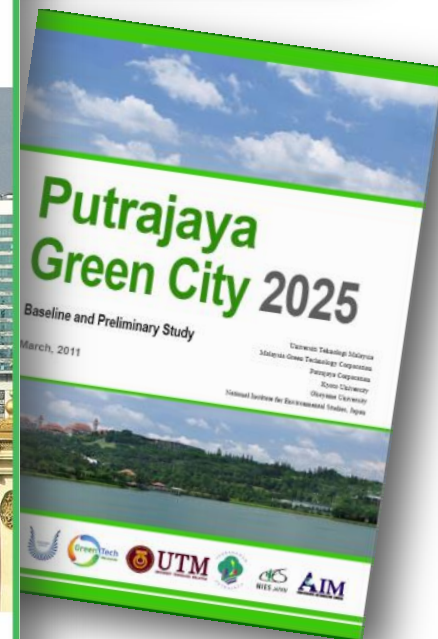
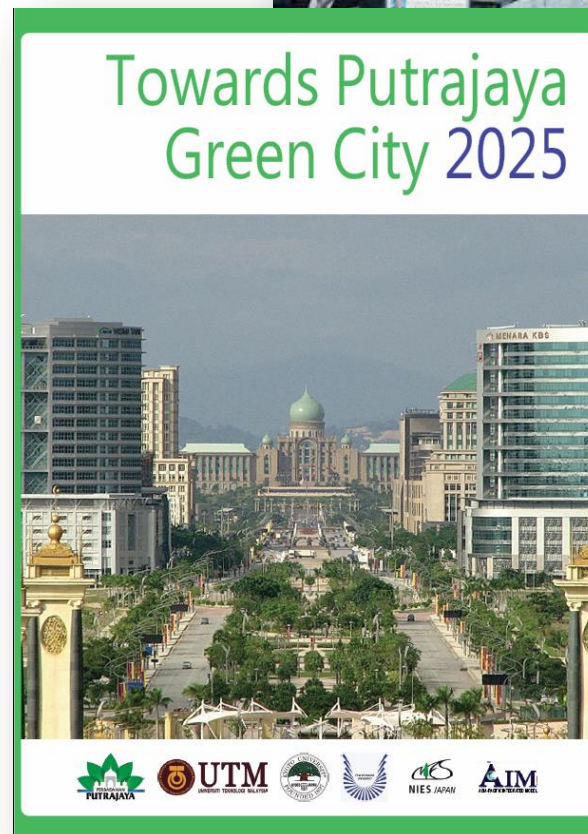


Towards Putrajaya Green City 2025

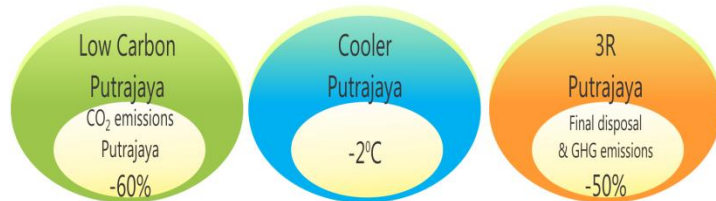


Background

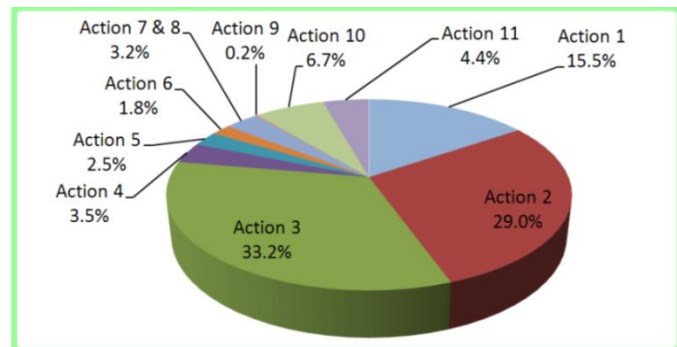
- During the tabling of the 2010 Malaysian Budget, the Prime Minister has announced to “develop Putrajaya and Cyberjaya as Pioneer Township in Green Technology as a showcase for the development of other townships”
- Putrajaya Corporation as the local authority for the city of Putrajaya and its stakeholders, since then have been gearing up efforts towards realising this vision
- The planning and development concept based on sustainable development principle, incorporated in the Putrajaya Master Plan has provided a concrete path for Putrajaya to move forward
- 2 documents, ‘**Towards Putrajaya Green City 2025**’ and ‘**Putrajaya Green City 2025: Baseline & Preliminary Study**’ were produced with the cooperation between Putrajaya Corporation, Universiti Teknologi Malaysia (UTM), GreenTech Malaysia, Kyoto University, Okayama University, National Institute of Environmental Studies (NIES), Japan & the Asia Pacific Integrated Model Team



Putrajaya Green City 2025: Baseline & Preliminary Study

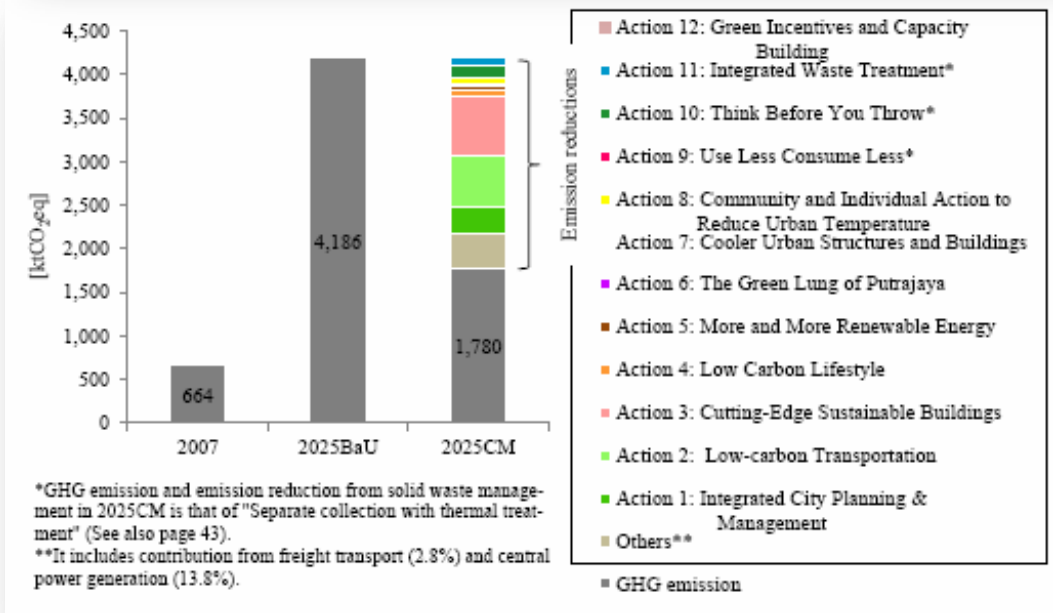


3 set environmental targets



12 actions & their contributions in GHG emissions reduction

Action No.	Name of actions	GHG emissions reduction [ktCO ₂ eq]	Contribution in total reduction [%]
1	Integrated City Planning & Management	312	15.5%
2	Low-carbon Transportation	582	29.0%
3	Cutting-Edge Sustainable Buildings	666	33.2%
4	Low-carbon Lifestyle	71	3.5%
5	More and More Renewable Energy	50	2.5%
6	The Green Lung of Putrajaya	35	1.8%
7	Cooler Urban Structures and Buildings	64	3.2%
8	Community and Individual Action to Reduce Urban Temperature	3	0.2%
9	Use Less Consume Less	134	6.7%
10	Think Before You Throw	88	4.4%
11	Integrated Waste Treatment	-	-
12*	Green Incentives and Capacity Building	-	-
Total of PGC2025 Actions		2,006	100%
Others**		400	-
Total		2,405	-

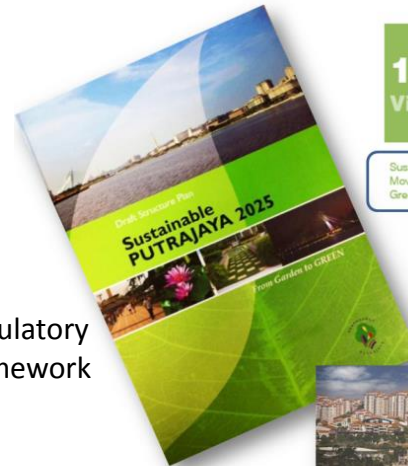


Putrajaya Green City Initiatives: 7 focus areas



FOCUS AREA 1: PLANNING, URBAN DESIGN & BUILDING

Regulatory framework



Reuse of local resources



Green Buildings & retro-fitting programmes



FOCUS AREA 2: TRANSPORTATION & MOBILITY



Multi modal transportation system

Putrajaya Green City Initiatives: 7 focus areas

FOCUS AREA 3: ENERGY USAGE

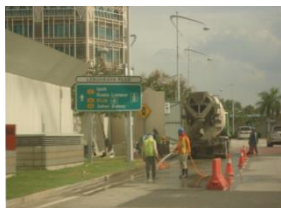
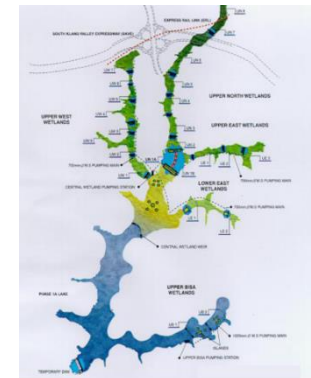


Programmes for energy efficiency improvement & renewable energy

FOCUS AREA 4: WATER USAGE



Putrajaya lake & wetland



Reuse of water for recreational purposes and city management

Putrajaya Green City Initiatives: 7 focus areas

FOCUS AREA 5: INTEGRATING NATURE INTO THE URBAN FABRIC



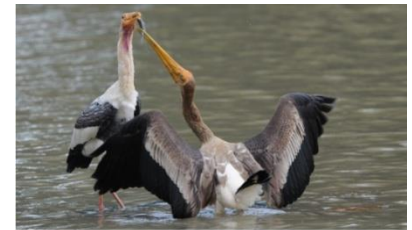
Green areas as carbon sink



Trees planting programmes



Bringing nature back into the city



FOCUS AREA 6: WASTE MANAGEMENT



3R & involvement of communities in waste management

Putrajaya Green City Initiatives: 7 focus areas

FOCUS AREA 7: CITY ADMINISTRATION & MANAGEMENT



Encouraging walking & cycling



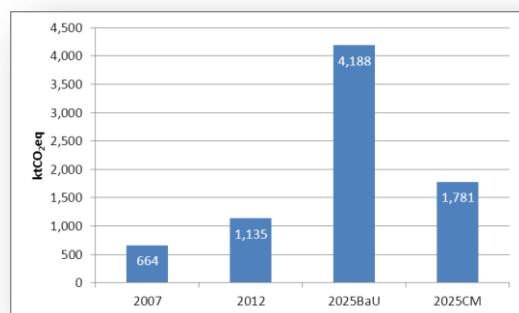
Community gardening



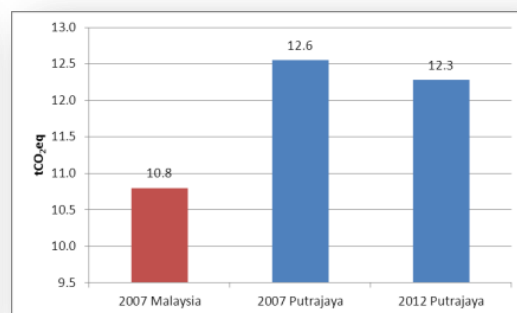
Community education & awareness programme



Summary of Putrajaya Greenhouse Gas Emissions Inventory 2012

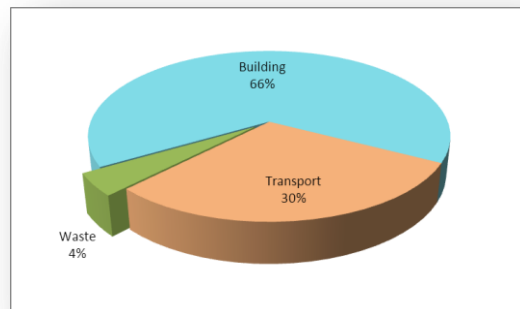


GHG Emissions comparison by years

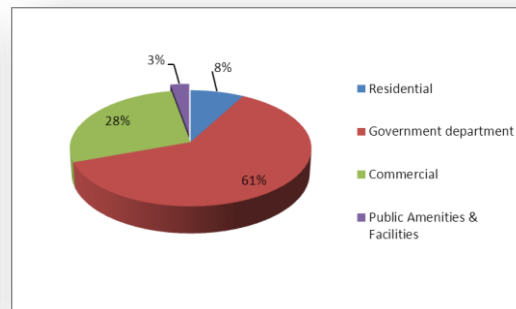


GHG Emissions per capita

	2007	2012	2025BaU	2025CM
Residential	23	59	266	150
Government departments	180	461	363	139
Commercial	65	207	1,435	769
Public amenities & facilities	67	21	240	112
Passenger transport	161	316	1,314	368
Freight transport	20	23	156	89
Waste	148	49	414	189
Total emissions	664	1,135	4,186	1,816
Carbon sink		-24		-25
Net emissions	664	1,087	4,186	1,780

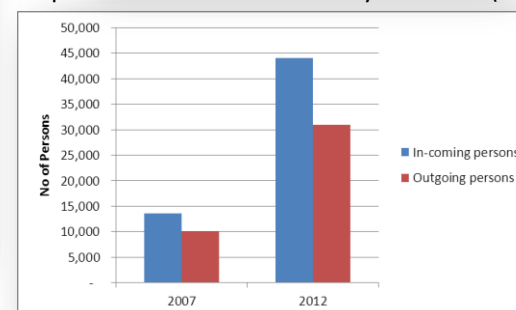


GHG Emissions by 3 scopes



CO₂ Emissions from building sector

Comparison of GHG Emissions by 7 sectors (ktCO₂eq)



In/Out persons comparison

Way forward

- ❑ 2012 inventory is important to guide PJC in reviewing its existing green city initiatives & in formulating new plan to achieve 3 environmental targets set by 2025
- ❑ Programmes will include:
 - Reduction in energy consumption of government offices through improvement of energy efficiency in buildings and best practices in energy management
 - Encouraging construction of 'green buildings' and energy management in their operation
 - The change of lifestyles of communities towards green living
 - Addressing the issue of the increase in the use of private vehicles by encouraging public to use public transportation system



PGC2025



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