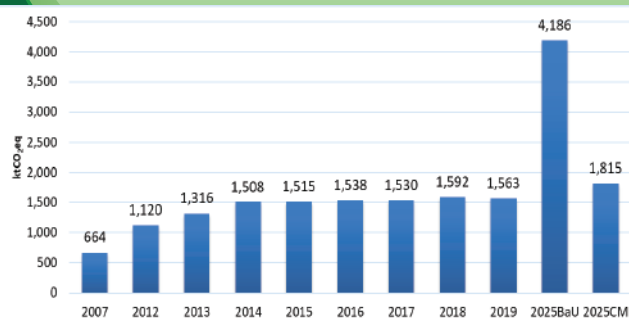


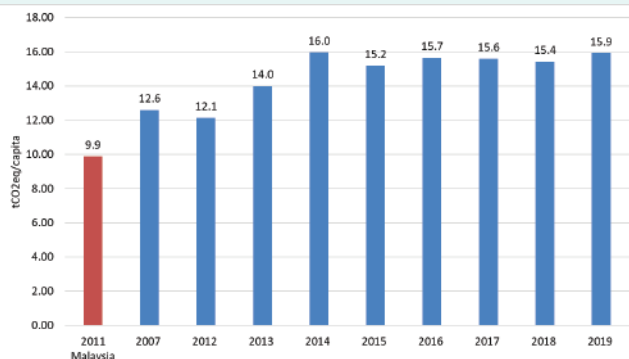
Inventory of Putrajaya Greenhouse Gas Emissions 2019

- Inventory of Putrajaya Greenhouse Gas Emissions (GHG) for the year 2019 were calculated based on seven sectors namely residential, government departments, commercial, public amenities and facilities, passenger transport, freight transport and solid waste.
- The city's overall greenhouse gas emissions for 2019 were 1,563ktCO₂eq as compared to 1,592ktCO₂eq in 2018.

GHG Emission in Putrajaya

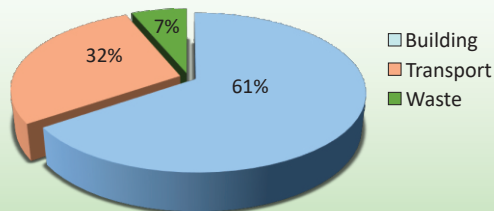


GHG Emissions Per Capita

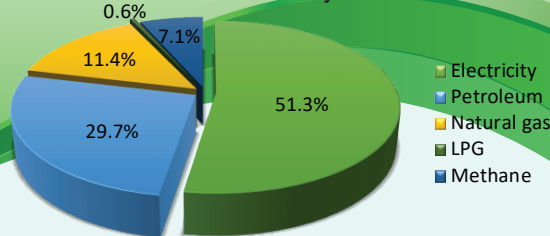


- Emissions per capita for 2019 were 15.9tCO₂eq as compared to 15.4tCO₂eq in 2018.
- Inventory result shows that highest greenhouse gas emissions were from the building sector which contributes 61% (948ktCO₂eq), followed by the transportation 32% (504ktCO₂eq) and solid waste 7% (111ktCO₂eq).
- The highest source of GHG emissions about 51.3% (802ktCO₂eq) is from the use of electricity, followed by petroleum 29.7% (464ktCO₂eq) natural gas 11.4% (178ktCO₂eq), methane 7.1%(111ktCO₂eq) and LPG 0.6% (9.04ktCO₂eq)

GHG Emissions by Three Scopes



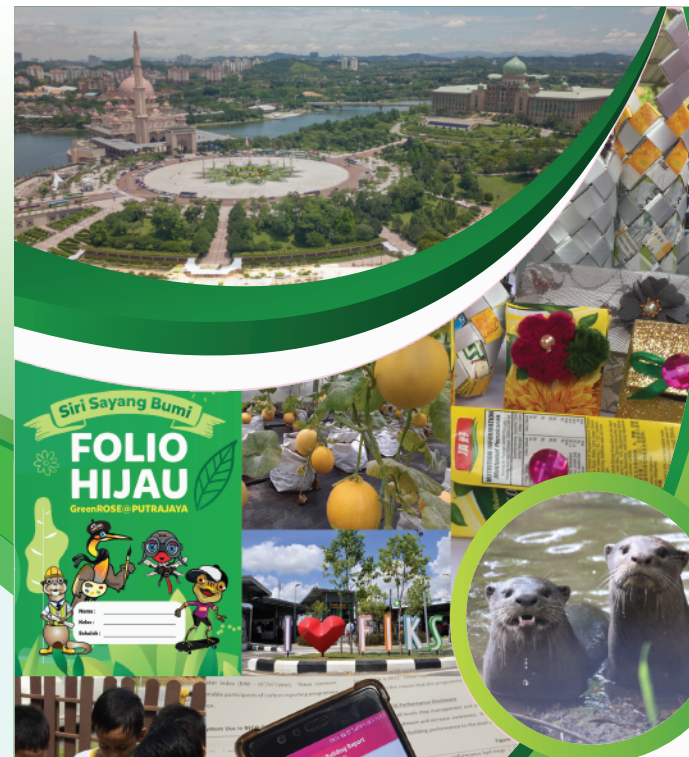
GHG Emissions by Source



Planning for a sustainable built environment

For further information, please contact:

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Pusat Pentadbiran Kerajaan Persekutuan
62675 Putrajaya
(Putrajaya Green City Section
Sustainable Development Division)
Tel : 03-8887 7000
www.ppj.gov.my
<http://www.facebook.com/putrajaya>
<http://www.facebook.com/PutrajayaBandarHijau>



Putrajaya
Low Carbon
GREEN CITY
2025



6th Edition

Background:

- To further promote green technology activities in Malaysia, the Prime Minister, in the 2010 Budget Speech has announced to develop Putrajaya and Cyberjaya as pioneer townships in Green Technology as a showcase for the development of other townships. Putrajaya is a planned city and its development is based on the 'City in the Garden' concept such as, "green city" has always been ingrained in its development right from its inception stage.

Definition:

- Cities with programs and initiatives to conserve the natural environment and resources which serve to minimize and reduce the negative impact of human activities onto the environment.

Our Aims:

- to minimise negative environmental impacts and degradation.
- to encourage human interaction back with nature.
- to reduce the carbon emissions from human activities.

The initiatives in transforming Putrajaya into a Green City are implemented through seven focus areas:

CITY PLANNING & BUILDING



- Planning principles that contributes towards reduction of carbon emissions;
- Green Building Design.
- Building sector energy use & carbon reporting programme (BECO₂R).

INTEGRATING NATURE INTO THE URBAN FABRIC



- Land use planning of open spaces (40% designated as parks & open space);
- Creation of lakes and wetlands;
- Tree Planting Programme
- Promoting Putrajaya Public Parks



TRANSPORTATION & MOBILITY



- Integrated planning of transportation network with the rail based transport as the back bone supported by park & ride facilities;
- Encouraging the use of low carbon emissions vehicles (NGV/EV buses, bicycle)
- Upgrading of pedestrian walkways & cycleways.



ENERGY USAGE



- Encouraging the use of Solar Photovoltaics for power generation
- Improvement of energy efficiency
- More and more renewable energy



Installation of solar PV at National Cancer Institute's (IKN) Pedestrian Route

Encouraging the use of energy efficient lighting fixtures for offices and public facilities

WATER USAGE



- City wide rain water harvesting programme;
- Implementation of rain water harvesting system for residential development
- Centralised sewerage treatment plant



Centralised STP

Rain Water Harvesting System

SOLID WASTE MANAGEMENT



- Provision of various 3R facilities;
- Food & green waste composting;
- Innovative reuse of waste
- PGC2025 Award - Creativity 3R
- Implementation of 2 bins system
- Enforcement on the use of Biodegradable Product



CITY ADMINISTRATION & MANAGEMENT



- Educational Programme and Awareness on Green Technology
- Healthy life style by Leadership
- Green Procurement
- Promoting Locally Planted Foods



Putrajaya Urban Farming

AIH Putrajaya

Awards & Recognitions:

Putrajaya's collaborative efforts in the implementation of these initiatives have received various awards & recognitions:

- ASEAN Environmentally Sustainable Cities Award 2011 & 2017
- Putrajaya Lake & Wetland as Ecohydrological Operational Site by UNESCO-IHP-2011
- Green Neighbourhood Awards, Ministry of Urban Well Being, Housing and Local Government
 - Pedestrian Walkways – 2011,2012
 - Bicycle Lanes – 2011,2017,2020
 - Solid waste Composting System – 2011
 - Rainwater Harvesting System (SPAH) – 2013
 - Urban Farming - 2017
- Special Awards- Eco City Initiative in conjunction with National Environment day 2017
- Sustainable City Awards MURNInets 2010, 2011, 2012, 2018, Ministry of Urban Well Being, Housing and Local Government
- MIP Planning Excellence Awards 2016: Recognition for Sustainable Practices Ecohydrology Management of Lake and Wetland in Putrajaya Urban System
- MIP Planning Excellence Awards 2018: Low Carbon City Awards Category – Building Sector Energy Use and Carbon Reporting (BECO R)