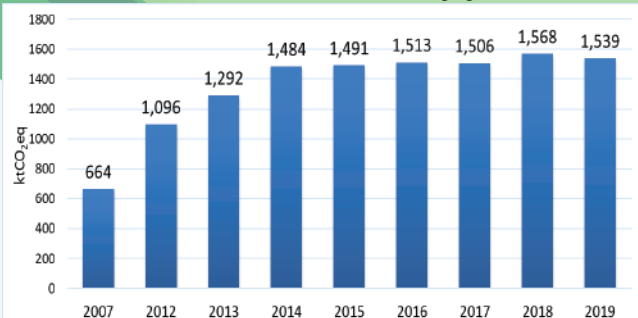


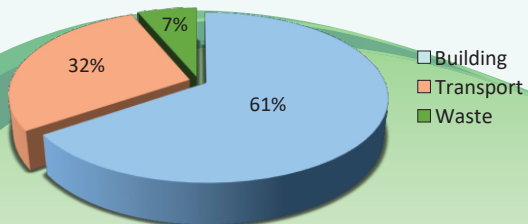
## Inventory of Putrajaya Greenhouse Gas Emissions 2019

- Inventory of Putrajaya Greenhouse Gas Emissions (GHG) for the year 2019 were measured by the emissions level in seven sectors - residential buildings, government buildings, commercial buildings, public amenities and utilities, passenger transportation, freight transportation and solid waste.
- The city's overall net greenhouse gas emissions for 2019 were 1,539ktCO<sub>2</sub>eq as compared to 1,568ktCO<sub>2</sub>eq in 2018.
- Emissions per capita for 2019 were 12.5tCO<sub>2</sub>eq as compared to 15.2tCO<sub>2</sub>eq in 2018.

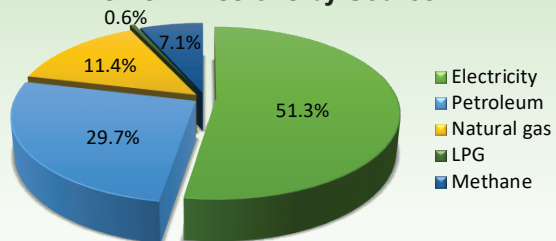
### GHG Emission in Putrajaya



### GHG Emissions by Three Scopes



### GHG Emissions by Source



# Putrajaya Low Carbon GREEN CITY 2025

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well-managed vibrant prosperous

## 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 (BECO<sub>2</sub>R).

### 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



### 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



- Improving energy efficiency
- More and more renewable energy
- Energy conservation programme



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

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 and non-residential buildings.
- 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
- Inforcement 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<sub>2</sub>R)