# **Putrajaya Green City 2025**

# **S2A** [Science + Policies = Actions]

#### POLICY 5: MOVING PUTRAJAYA TOWARDS GREEN CITY

Moving Putrajaya towards Green City requires improvement plans and road map that will guide the creation of green community, adoption of green technology and sustainable building practices that lead to the reduction of carbon footprint in the city.

Sustainable development practices have been long embedded in Putrajaya in line with its Garden City theme. Putrajaya has designated more than half of its area for parks, recreational areas and water bodies, created green linkages as one its city

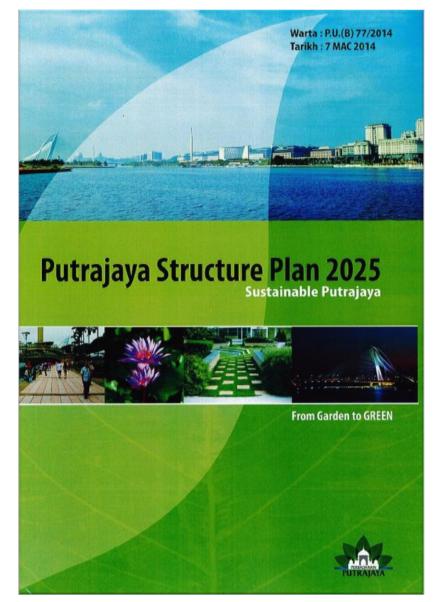
Putrajaya will be moving towards a Green City through the following initiatives:

	•			
5.1	Enhance ecology,	water	body	and
	bio-diversity			

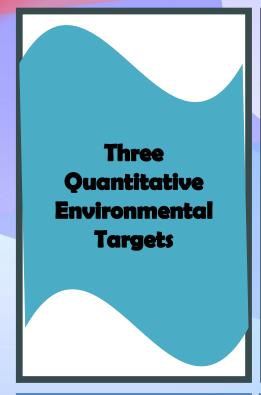
5.2 Application of green technology, infrastructure and practices in city planning and management

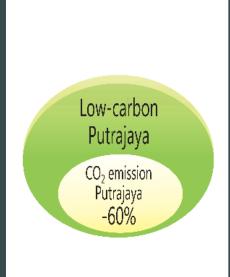
5.3 Adopting Sustainable Building Practices

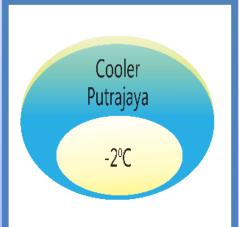
5.4 Establish model green community committed to reduction of carbon footprint

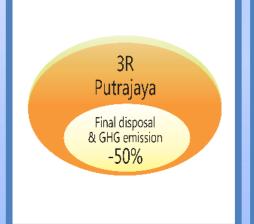


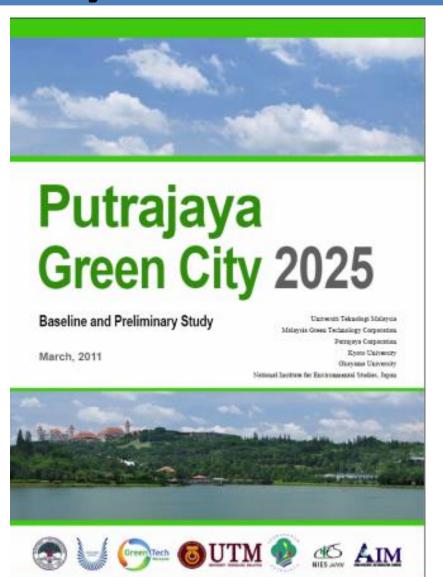
Putrajaya Green City 2025











# **Putrajaya Green City 2025**

# **Transforming Putrajaya** into Green City



#### **Green Initiatives by Seven Focus Areas**



# **City Planning & Building**

- i. Planning principles that contributes towards reduction of carbon emission
- ii. Reuse of Local Resources for Construction
- iii. Green Initiatives for Building Sector by lifecycle







#### **NEW BUILDINGS**

### GREEN BUILDING DESIGN REQUIREMENTS:

- 12 completed
- 19 under construction/design

DISTRICT PLAN FOR ENERGY EFFICIENCY (Gas District Cooling)

Stage 1 – Before Use Phase

Planning, Design, Construction

#### **EXISTING BUILDINGS**

**BECO<sub>2</sub>R** (Building Sector Energy Use & Carbon Reporting Programme)

Retrofitting (EE & RE) by building owners

**Green practices** in building maintenance (e.g: Government Green Procurement )

**Green Building Certification** (O&M) by building owners (8 govn bldg)

Stage 2 – Use Phase (80%-90% of emissions)

**Operational & Maintenance** 

Future programme

Stage 3 – After -Use Phase

Deconstruction/ Demolish Building lifecycle CO<sub>2</sub> emissions<sup>(1)</sup>

(1): UNDP-SBCI & WRI, 2010







# Integrating Nature into the Urban Fabric

- Landuse Planning for Open Spaces
- Gazetting Open Spaces
- Putrajaya Greening Programme
- Putrajaya Urban
   Farming Programme













# Transportation & Mobility

- Extensive Networks of Pedestrian Walkways & Cycleways
- Environmental Friendly Public Buses (NGV & EV)
- Electric Vehicles for tourist (electric bicycle/ trishaw/ECOride).





# **Energy**

- Renewable Energy
- Energy Efficiency
- EnergyConservation













Sensor & energy saving lights









2002-2018

1,530

2.5

20,056



Centralised sewerage treatment plant (STP)



SCADA (early warning system to detect pollution)

# Items

Annual Lake Water Consumption (mil. litre)

Saving of water cost (mil. RM)<sup>(1)</sup>

Annual Water Consumption<sup>(2)</sup> (person)

## Water

- Alternative Water Resources (Putrajaya Lake Water, rainwater, treated waste water).
- Water Quality Control (Wetland, GPT, STP)

#### **Solid Waste Management**

- Provision of 3R facilities
- Innovation Reuse of Solid Waste
- Separation at Source
- Food & garden waste composting
- Encouraging reuse / upcycling through: Creativity 3R































#### **City Administration & Management**

- i. Extensive Use of Online Services
- ii. Encouraging Low Carbon Lifestyle through Community Programme
  - Children-led climate change adaptive initiative (GreenROSE@Putrajaya)
  - Environmental Awareness programme
  - Putrajaya inter-park ride, bicycle fun ride@Putrajaya,
  - fun walk with President PPj on Wednesday.
- iii. Awards & Recognition





# PUTRAJAYA GREEN CITY 2025



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