

# PUTRAJAYA

LOW CARBON CITY MODEL

# 2030

TOWARDS A GREEN CARBON NEUTRAL CITY

REPORT CARD 2025



JABATAN PERDANA MENTERI  
JABATAN WILAYAH PERSEKUTUAN



## Basic Profile



**Function:**  
Federal Government  
Administrative  
Centre



**Area:**  
4,931  
hectare



**Residents:**  
125,200  
persons\*

\*Source: DOSM 2025

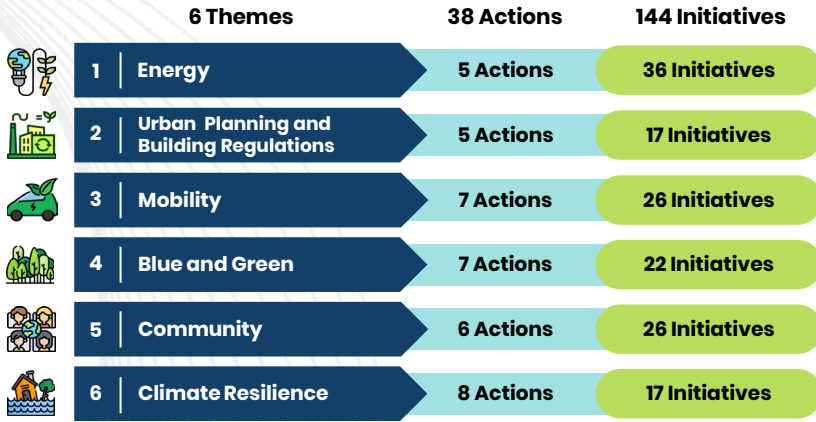


**Daytime  
population:**  
176,747 persons



**Completed gross  
floor area (GFA):**  
11,444,830 m<sup>2</sup>

## Synopsis PCAP 2030



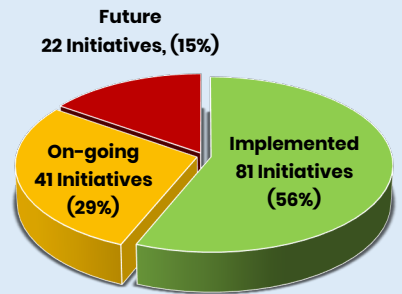
38 Actions:

19 Mitigation

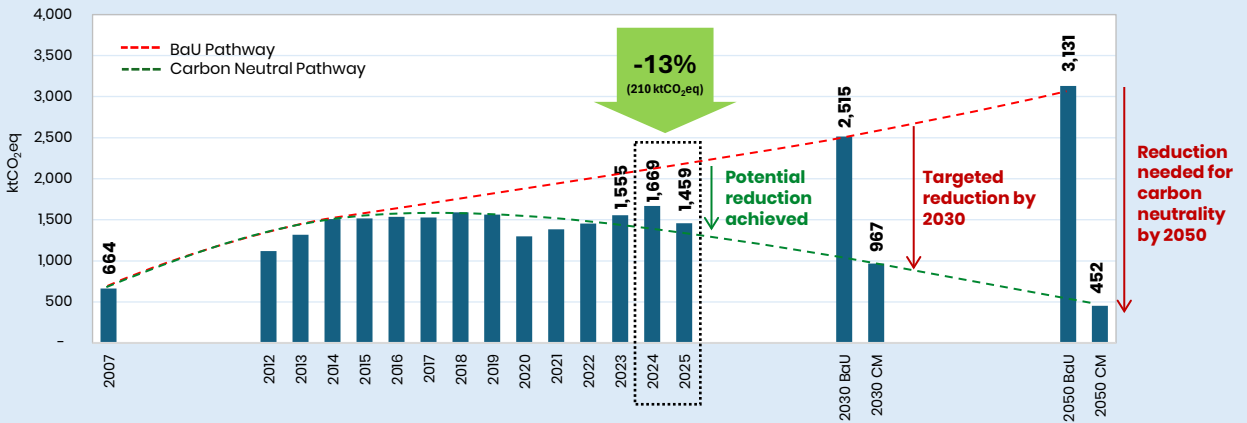
9 Adaptation

10 Mitigation & Adaptation

## Implementation Status



## Report Card 1 : Annual GHG Emissions Trend



## Report Card 2 : Annual Carbon Avoidance & Removal

### Carbon Avoidance

Tahun	2024	2025	Change
Renewable energy	3.02 ktCO <sub>2</sub> eq	3.98 ktCO <sub>2</sub> eq	↑ +32%
Energy efficiency	0.16 ktCO <sub>2</sub> eq	0.34 ktCO <sub>2</sub> eq	↑ +112%
Modal Shift to bus & rail	263.30 ktCO <sub>2</sub> eq	264.17 ktCO <sub>2</sub> eq	↑ +0.3%
Recycle / Solid Waste Reduction	8.00 ktCO <sub>2</sub> eq	8.00 ktCO <sub>2</sub> eq	=
<b>Total</b>	<b>274.48 ktCO<sub>2</sub>eq</b>	<b>276.49 ktCO<sub>2</sub>eq</b>	↑ +0.7%

### Carbon Removal

Tahun	2024	2025	Change
Carbon Sequestration	31.71 ktCO <sub>2</sub> eq	31.84 ktCO <sub>2</sub> eq	↑ +0.4%

# Report Card 3: Achievement of Low Carbon City Targets by 6 themes

## Energy



**100%**

Government office complexes with BEI below 150kWh/m<sup>2</sup>/year by 2030

2025 : 91%



**15,000 MWh**

Annual electricity generates from solar energy by 2030

2025 : 6,804 MWh



**100%**

Street lighting using LED by 2030

2025 : 46%



**100%**

Upgrading LED lighting system at all neighbourhood center by year 2025

2025 : 75%

## Urban Planning and Building Regulations



**Establish**

Putrajaya Net Zero Carbon Building Action Plan by 2025

2025 : 100%



**5 New buildings**

with low energy building design by year 2030

2025 : 15 buildings



**100% New Building**

Adoption of Uniform Building By Law for natural lighting and ventilation by 2025

2025 : 100% (15 buildings)



**100% New Building**

Adoption of Uniform Building By Law for rainwater harvesting system by 2030

2025 : 100% (15/15 buildings)

## Mobility



**5%**

Annual ridership increment for transit buses

2025 : 12.4%



**Monthly**

Putrajaya vehicle free zone programme at Persiaran Perdana

2025 : 11 programme



**Electric bus**

for Nadiputra Putrajaya local bus services by 2028

2025 : In Planning



**4 nos**

Single decker city tour electric bus by 2025

2025 : 4 nos



**100 nos**

EV charging station by 2030

2025 : 55 nos

## Blue and Green



**400,000 nos**

Trees planted by 2025

2025 : 512,623 nos



**1,376.80 ha**

Gazetted open space by 2025

2025 : 1,411.63 ha.



**220,000 nos**

of aquatic vegetations replanted at Putrajaya Wetland by 2025

2025 : 241,340



**3,000 data**

Inventory report for park (MyBIS) by 2025

2025 : 3,059 data

## Community



**10**

New Urban farming increase by year 2030 (2021: 11 farm)

2025 : 7 farm



**Incentive or rewards**

to community on low carbon practices

2025 : 5 Incentive



**100%**

Zero single used plastic by year 2030

2025 : 75%



**0.82kg/cap/yr**

30% below national level in 2019, which was 1.17 kg/cap/yr

2025 : 0.67kg/cap/yr



**2%**

Increase of recycling rate yearly

2025 : 0.03%

## Climate Resilience



**5%**

Reduce dengue episode cases yearly

2025 : -47% (308 cases)



**5 million litres**

Water saving by using lake water collection yearly

2025 : 2 million liters



**1 Guideline**

Establish tree planting guideline by 2025

2025 : 100%



**1 System**

Putrajaya Dam Safety System by 2026

2025 : 82%

# Project Highlights

## Energy



Solar photovoltaic at Putrajaya Corporation Complex, Precinct 3



Solar photovoltaic covered pedestrian walkways at MRT Putrajaya Sentral, P7 – Pangsapuri Putra Harmoni, P9

## Blue and Green



Tree planting programme in Putrajaya



Aquatic plant replanting in wetland cells at Taman Wetland, Precinct 13

## Urban Planning and Building Regulations



GBI (Green Building Index) Gold rating – Petronas Geoscience Technology Centre, Precinct 5



GreenRE Gold rating – Indonesian Embassy, Precinct 4

## Community



CAREton@Putrajaya used beverage cartons (UBC) collection campaign



AI Smart Vending Machines are deployed around Putrajaya to increase PET bottle recycling

## Mobility



Increase the use of micromobility



Installation of electric vehicle charging stations

## Climate Resilience



Portable Rain Monitoring System (WMS) at Putrajaya Sentral, Precinct 7



Lake water intake station at the Putrajaya Water Sports Complex, Precinct 6



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