

# PUTRAJAYA

## LOW CARBON CITY MODEL

# 2030

## TOWARDS A GREEN CARBON NEUTRAL CITY

### REPORT CARD 2024



JABATAN PERDANA MENTERI  
JABATAN WILAYAH PERSEKUTUAN



## Basic Profile



**Function:**  
Federal  
Government  
Administrative  
Centre



**Area:**  
4,931  
hectare



**Residents:**  
155,818 persons  
(+1%)



**Daytime  
population:**  
199,282 persons  
(+6%)



**Completed gross  
floor area (GFA):**  
11,048,442 m<sup>2</sup> (+5%)

## Synopsis PCAP 2030



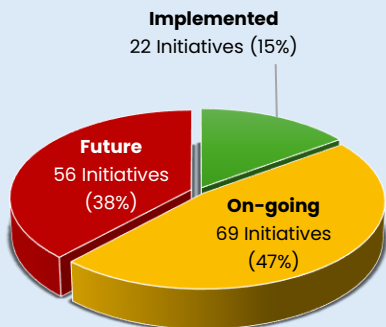
38 Actions:

19 Mitigation

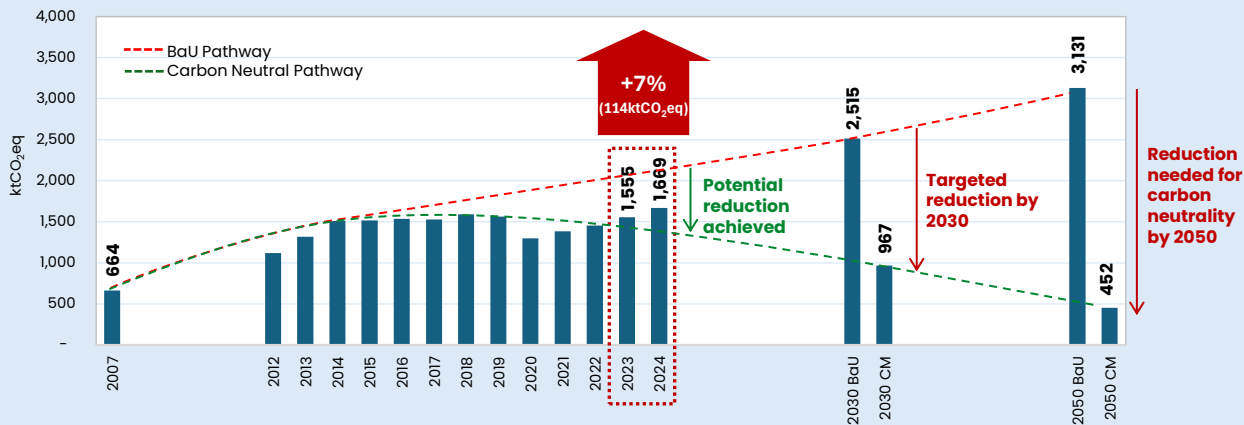
9 Adaptation

10 Mitigation & Adaptation

## Implementation Status

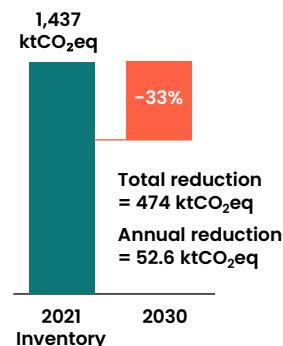


## Report Card 1 : Annual GHG Emissions Trend



## Report Card 2 : Annual Carbon Avoidance & Removal

### Carbon Reduction Target



### Carbon Avoidance

Tahun	2023	2024	
Renewable energy	2.43 ktCO <sub>2</sub> eq	3.02 ktCO <sub>2</sub> eq	↑ +24%
Energy efficiency	0.24 ktCO <sub>2</sub> eq	0.16 ktCO <sub>2</sub> eq	↓ -58%
Modal Shift to bus & rail	212.55 ktCO <sub>2</sub> eq	263.30 ktCO <sub>2</sub> eq	↑ +24%
Recycle / Solid Waste Reduction	8.00 ktCO <sub>2</sub> eq	8.00 ktCO <sub>2</sub> eq	=
Total	223.22 ktCO <sub>2</sub> eq	274.48 ktCO <sub>2</sub> eq	↑ +24%

### Carbon Removal

Tahun	2023	2024	
Carbon Sequestration	31.59 ktCO <sub>2</sub> eq	31.71 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

2024 : 89%



**15,000 MWh**

Annual electricity generates from solar energy by 2030

2024 : 5,789 MWh (42%)



**100%**

Street lighting using LED by 2030

2024 : 40%



**100%**

Upgrading LED lighting system at all neighbourhood center by year 2025

2024 : 50%

### Urban Planning and Building Regulations



**Establish**

Putrajaya Net Zero Carbon Building Action Plan by 2025

2024 : 60%



**5 New buildings**

with low energy building design by year 2030

2024 : 15 buildings



**100% New Building**

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

2024 : 100% (17 buildings)



**100% New Building**

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

2024: 95% (18/19 buildings)

### Mobility



**5%**

Annual ridership increment for transit buses

2024 : +21% (453,722)



**Monthly**

Putrajaya vehicle free zone programme at Persiaran Perdana

2024: 2 programme



**Electric bus**

for Nadiputra Putrajaya local bus services by 2028

2024: In Planning



**4 nos**

Single decker city tour electric bus by 2025

2024: In Planning



**100 nos**

EV charging station by 2030

2024 : 45 nos (45%)

### Blue and Green



**400,000 nos**

Trees planted by 2025

2024 : 391,956 nos (98%)



**1,376.80 ha**

Gazetted open space by 2025

2024 : 931.4 ha. (68%)



**220,000 nos**

of aquatic vegetations replanted at Putrajaya Wetland by 2025

2024 : 202,030 (92%)



**3,000 data**

Inventory report for park (MyBIS) by 2025

2024 : 3,030 data (100%)

### Community



**10**

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

2024 : 6 farm (60%)



**Incentive or rewards**

to community on low carbon practices

2024 : 5 Incentive



**100%**

Zero single used plastic by year 2030

2024: 80%



**0.82kg/cap/yr**

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

2024: 0.80 kg/cap/yr



**2%**

Increase of recycling rate yearly

2024: 2%

### Climate Resilience



**5%**

Reduce dengue episode cases yearly

2024 : -9% (614 cases)



**5 million litres**

Water saving by using lake water collection yearly

2024 : 3.65 million liters (73%)



**1 Guideline**

Establish tree planting guideline by 2025

2024 : 80%



**1 System**

Putrajaya Dam Safety System by 2026

2024 : 38%



# Project Highlights

## Energy



Building Sector Energy Use and Carbon Reporting (BECO<sub>2</sub>R)

## Urban Planning and Building Regulations



Putrajaya Net Zero Carbon Building Action Plan 2035

## Mobility



Encouraging use of micromobility



Adopt Energy Efficiency Infrastructures and Facilities



Adoption of Uniform Building By Law for natural lighting and ventilation in building approval



Installation of electric vehicle charging bay

## Blue and Green



Tree planting programme in Putrajaya



CAREton@Putrajaya

## Climate Resilience



Provide more maintenance of public drainage to prevent flash floods



Promote vertical gardens and green roofs in commercial buildings, schools and government buildings



Putrajaya Green Incentive (Anugerah Inisiatif Hijau & Insentif Kediaman Hijau)



Putrajaya Dam Safety System (SKEP) provides real-time surveillance and structural integrity monitoring



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