

Project Highlights

Energy



Building Energy Management Clinics.

Urban Planning and Building Regulations



Gazetteer of Heritage Buildings, Laman Mercu Tanda, Presint 1

Mobility



Improvement on the existing pedestrian & cyclist lane.



LED street light retrofitting project.

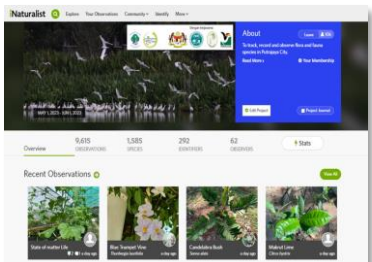


Maintenance on safety features for pedestrian walkway and bike lanes.



Autonomous Rapid Transit (ART) service testing.

Blue and Green



Putrajaya Urban Biodiversity Challenge.

Community



Collection of used cooking oil at Petronas Station Precinct 9

Climate Resilience



Putrajaya Green Initiative Awards



Green Wall at PJC Complex & Wetlands.



Waste to Wealth Project with Putrajaya Community



Integrated Environmental Monitoring System

PUTRAJAYA LOW CARBON CITY MODEL 2030

TOWARDS A GREEN CARBON NEUTRAL CITY

REPORT CARD 2023



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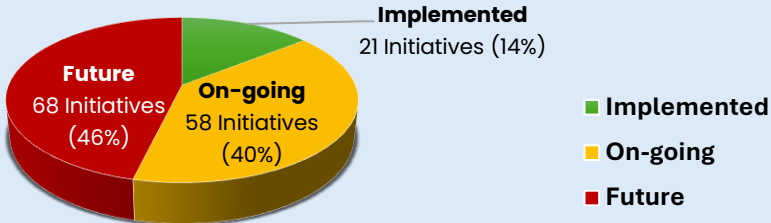
PUTRAJAYA CLIMATE ACTION PLAN 2030

6 Themes **38 Actions** **147 Initiatives**

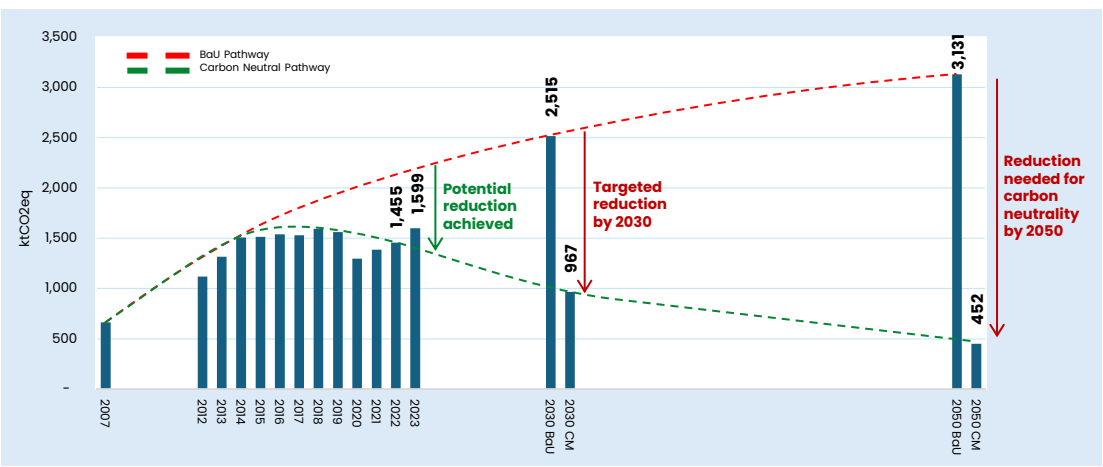
| | | | |
|--|--|------------------|-----------------------|
| | 1 Energy | 5 Actions | 36 Initiatives |
| | 2 Urban Planning and Building Regulations | 5 Actions | 17 Initiatives |
| | 3 Mobility | 7 Actions | 30 Initiatives |
| | 4 Blue and Green | 7 Actions | 20 Initiatives |
| | 5 Community | 6 Actions | 27 Initiatives |
| | 6 Climate Resilience | 8 Actions | 17 Initiatives |

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

1,437 ktCO₂e (2021 Inventory) **-33%** (2030 Target)

Annual carbon avoidance target = 52.6 ktCO₂e.

| | 2022 | 2023 |
|---------------------------------|---------------------------------|---------------------------------|
| Carbon Avoidance | 181.45 ktCO₂e | 223.22 ktCO₂e |
| Renewable energy | 2.13 ktCO ₂ e | 2.43 ktCO ₂ e |
| Energy efficiency | 0.68 ktCO ₂ e | 0.24 ktCO ₂ e |
| *Modal Shift to bus & rail | 171.44 ktCO ₂ e | 212.55 ktCO ₂ e |
| Recycle / Solid Waste Reduction | 7.00 ktCO ₂ e | 8.00 ktCO ₂ e |
| Carbon Removal | | |
| Carbon Sequestration | 31.46 ktCO ₂ e | 31.59 ktCO ₂ e |

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

Energy

- 100%** Government office complexes with BEI below 150kWh/m²/year by 2030 (2023 : 91%)
- 15,000 MWh** Annual electricity generates from solar energy by 2030 (2023 : 4,153MWh)
- 100%** Street lighting using LED by 2030 (2023 : 37%)
- 100%** Upgrading LED lighting system at all neighbourhood center by year 2025 (2023 : 25%)

Urban Planning and Building Regulations

- Establish** Putrajaya Net Zero Carbon Building Action Plan by 2025 (2023 : In Planning)
- 5 New buildings** with low energy building design by year 2030 (2023 : 7 building)
- 100% New Building** Adoption of Uniform Building By Law for natural lighting and ventilation by 2025 (2023 : 100% (23 building))
- 100% New Building** Adoption of Uniform Building By Law for rainwater harvesting system by 2030 (2023 : 100% (29 buildings))

Mobility

- 5%** Annual ridership increment for transit buses (2023 : 63% (373,805))
- Monthly** Putrajaya vehicle free zone programme at Persiaran Perdana (2023 : In Planning)
- Electric bus** for Nadiputra Putrajaya local bus services by 2028 (2023 : In Planning)
- 4 nos** Single decker city tour electric bus by 2025 (2023 : In Planning)
- 100 nos** EV charging station by 2030 (2023 : 1 nos)

Blue and Green

- 400,000 nos** Trees planted by 2025 (2023 : 106,280 nos)
- 1,376.80 ha** Gazetted open space by 2025 (2023 : 931.4 ha.)
- 220,000 nos** of aquatic vegetations replanted at Putrajaya Wetland by 2025 (2023 : 43,368 nos)
- 3,000 data** Inventory report for park (MyBIS) by 2025 (2023 : 2,400 data)

Community

- 10** New Urban farming increase by year 2030 (2021: 11 farm) (2023 : 5 farm)
- Incentive or rewards** to community on low carbon practices (2023 : 3 Incentive)
- 100%** Zero single used plastic by year 2030 (2023 : 80.4 %)
- 0.82kg/cap/yr** 30% below national level in 2019, which was 1.17 kg/cap/yr (2023 : 0.63kg/cap/yr (46%))
- 2%** Increase of recycling rate yearly (2023 : + 4% (total = 22%))

Climate Resilience

- 5%** Reduce dengue episode cases yearly (2023 : + 41% (675 cases))
- 5 million litres** Water saving by using lake water collection yearly (2023 : 0.73 million)
- 1 Guideline** Establish tree planting guideline by 2025 (2023 : In Planning)
- 1 System** Putrajaya Dam Safety System by 2026 (2023 : In Planning)