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COUNTRY REPORT
- CAMBODIA -

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KINGDOM OF CAMBODIA

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(Transport Infrastructure)**
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I. Country Introduction



Capital	Phnom Penh
Area	181,035 Km²
Population	16.94 millions, as of 2023
Annual Population Growth	Drop from 1.5% (2010) to 1.2% (2020)
Urban Population	26 %
GDP per capita	US\$ 1,917 as of 2023
Currency	Riel (1USD=4000Riels)
Major Ports	Sihanoukville Port and Phnom Penh Port
Length of National Roads	20,203 km (Under MPWT)
Length of Rural Roads	49,105 km (Under MRD)
Length of Railroad	652 km (Two lines)
Length of Asian/ASEAN Highway Routes	2,247 km (4 Corridors)
Number of Registered Vehicle	7.60 million vehicles (As of Oct. 2024) (about 80% are Two and Three-wheelers)

II. Report on Goal 1A: Low Carbon

Low-carbon (Climate Change Mitigation)

Policies Implemented in Cambodia

1. NDC and LST4CN

2. National Policy on EVs Development

Adopted by PM in 5/24

Targets by 2030: The country aims to register 770,000 EVs, comprising of:

- 25,000 passenger electric cars.
- 5,000 heavy commercial EVs.
- 720,000 electric scooters.
- 20,000 electric tuk-tuks



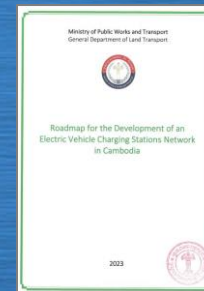
Economic and Environmental Goals:

- Support transition toward carbon neutrality by 2050.
- Reduce reliance on oil, enhancing energy security & decreasing imports.
- Establish entire ecosystem for EV adoption, with infrastructure development: charging stations, supply chain of components & battery, incentive mechanism, users' awareness and waste management,
- Facilitate shift toward advanced industries like electronics & vehicle assembly.

Implementing Institution:

- 11 ministries/agencies (54 policy measures) under IMTC chaired by MPWT

3. Roadmap for Development of EV Charging Stations Network in Cambodia



- Infrastructure needed to support growth of EV stock by 2050 varies from 9,900 to 33,800 individual charge points (all charging types combined),
- By 2030, 25-100 strategically located DC fast chargers will be needed.
- Deployment of charging infrastructure will require \$0.5 - \$2 million investment per year between 2022-2030.

4. Incentive for EVs

- Currently, the Import tax on EVs: 60% (compared to 120% tax on ICE vehicles)
- Considering other financial and non-financial incentives for both demand and supply sides.

Current activities supported by DPs:

	Project/Initiatives	Information and activities
1	Feasibility for E-bus deployment as Public Transport in Siem Reap	<p>Period: 2023</p> <p>Focus area: Siem Reap</p> <p>Funding agency: Cities Development Initiative of Asia</p>
2	Air Quality Improvement Program	<p>Period: 2023-2025</p> <p>Focus area: Siem Reap & Phnom Penh</p> <p>Funding agency: AFD (GGGI is the implementing agency)</p> <p>Activities:</p> <ul style="list-style-type: none"> • Development of Emission Inventory for Transport Sector • Development of Strategy for Vehicle Emission Reduction • Development of Proposal on “Governance Framework for Public Transport in Secondary Cities of Cambodia” • Development of Concept Note on Electric Transport Project Idea in Angkor Area
3	Activation of E-Mobility and GHG Reduction in Cambodia through Charging Infrastructure Development	<p>Period: 2023 onwards (carbon trade under Article 6 of the Paris Agreement) – pending approval by RGC</p> <p>Focus: Phnom Penh and Siem Reap + highway connecting Phnom Penh and Siem Reap</p> <p>Funding agency: Government of Korea, Verywords</p> <p>Activities:</p> <ul style="list-style-type: none"> • Development of battery swap stations for electric two-wheelers • Deployment of electric two-wheelers • Sale of carbon reduction to Government of Korea

Way Forward

- 1. Accelerate EV adoption through expansion of EV charging stations**
- 2. Develop and promote sustainable transport modes through public transport systems**
- 3. Strengthen implementation of emission standards**
- 4. Strengthen regulation and inspection on used vehicles**
- 5. Build capacity and public awareness**

III. Report on Goal 1C: Air Pollution

BY 2030, REDUCE AIR POLLUTION AND CONTAMINATION CAUSED BY TRAFFIC, INCLUDING PM2.5, OTHER AIR POLLUTANTS AND NOISE. (BASED ON SDG 3.9, 11.6).

ACTION IN CAMBODIA

Policies Implemented in Cambodia

Clean Air Plan: Launched in January 2022, aims to reduce PM2.5 and other pollutants by addressing major sources of air pollution, including transport. It includes measures to raise vehicle emission standards and limit the age of imported vehicles.

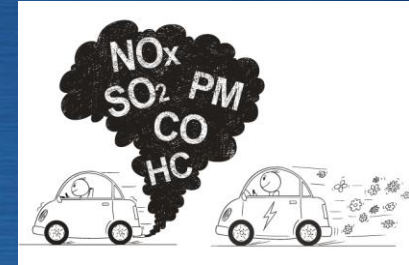
Other policies to reduce air pollution

No.	Type of Document	Year	Matter of air quality
1	Sub-Degree 42	2000	Air pollution and noise disturbance, it is very broad for CO, NO ₂ , SO ₂ , O ₃ , Pb, and TSP
2	Circular 01	2020	Measures on the pollution source control, targeting on fossil fuel
3	Air quality strategy	2021	Clean air plan of Cambodia
4	Prokas 038	2020	Implementation of AQI index for monitoring air quality in Cambodia
5	Circular Strategy	2023	Circular Strategy on Environment 2023-2028

Key transport sector initiatives outlined in the Clean Air Plan:

1. Vehicle Emission Standards:

- Euro IV Standards: Implemented in 2022 for all vehicles, including imports.
- Euro V Standards: Targeted implementation by 2027.
- Euro VI Standards: Planned adoption by 2030.
- Ensuring cleaner fuels by reducing sulfur content to 10 ppm by 2024.



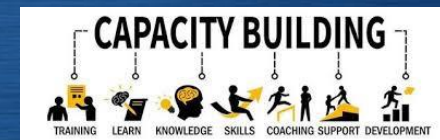
2. Cleaner Used Vehicles:

- Inspections and Certifications: Strengthened protocols to prevent the entry of substandard and polluting vehicles.
- Standards Compliance: Introduction of regulations requiring imported vehicles to adhere to international emission and roadworthiness criteria.



1. Capacity Building and Policy Support:

- Technical Guidelines and Frameworks: Developing clear protocols to support enforcement of vehicle emissions and fuel quality standards.
- Capacity Building: Collaborating with the Climate and Clean Air Coalition (CCAC) and Clean Air Asia to provide technical assistance, training, and capacity development for effective monitoring and enforcement.



These efforts are projected to reduce air pollution from the transport sector by up to 75% by 2030 if fully implemented.

Activities implemented and way forward towards air pollution reduction in the Transport sector in Cambodia

Recent or ongoing activities:

	Initiatives	Information and activities
1	Sustainable Urban Mobility for All Initiative	<p>Period: 2018 – 2021</p> <p>Focus area: Sustainable urban mobility, transport and logistics, innovation, technology, youth engagement, disability access</p>
2	Implementation of EURO IV Emission Standard	<p>Period: 2022 - 2024</p> <p>Focus area: overall transport</p> <p>Funding agency: Climate and Clean Air Coalition</p> <p>Activities:</p> <ul style="list-style-type: none"> • Drafting and endorsing joint ministerial declarations on vehicle emission standards, vehicle inspection, and fuel quality monitoring • Developing roadmaps and technical guidelines for transitioning to Euro 6/VI vehicle emission standards, alongside guidelines for implementing Euro 4/IV standards and fuel quality monitoring • Training programs focused on vehicle emissions standards enforcement, inspection procedures, and fuel quality monitoring

Recent or ongoing activities (Cont.):

	Initiatives	Information and activities
3	Air Quality Improvement Program	<p>Period: 2023-2025 Focus area: Siem Reap & Phnom Penh Funding agency: AFD Activities:</p> <ul style="list-style-type: none"> • Development of Standard Operating Procedure for Quality Assurance of Air Monitoring Stations in Cambodia • Development of transport emission inventory (EI) • Build capacity of government officials on use of EI
4	<p>Implementation of National EVs Policy 2024-30.</p> <p>Adopted in May 2024 by PM.</p>	<p>Period: 2024-2030 by: Inter-Ministerial Technical Committee for Development of EVs Activities:</p> <ul style="list-style-type: none"> • 53 policy measures were identified, led by 11 line ministries/agencies

WAY FORWARD:

- **Strengthen implementation of EURO standards**
- **Increase the share of Public Transport**
- **Promote clean transport modes, EVs, e-bikes, e-Buses**
- **Public awareness campaigns**

IV. Report on Goal 3:

Economic sustainability (Transport Infrastructure)

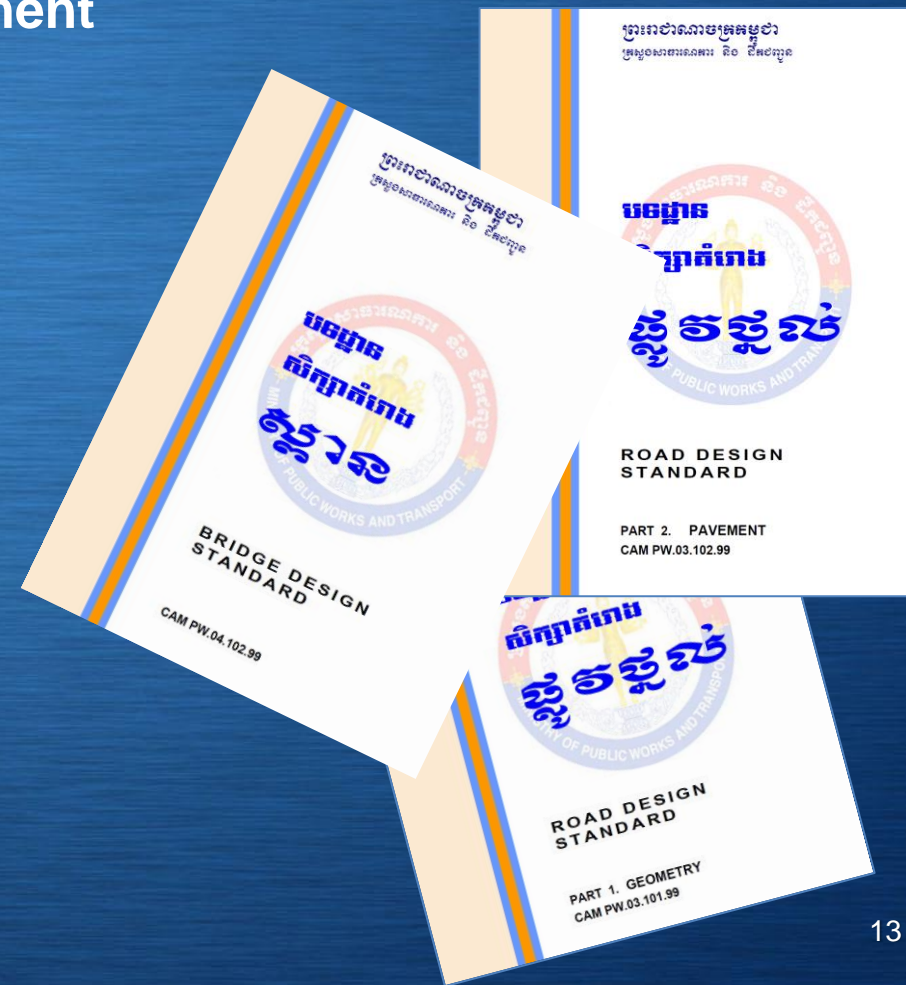
**BY 2030, REALIZE SUSTAINABLE ECONOMIC AND
EMPLOYMENT GROWTH....**

IV.1 Upgrading Roads, Bridge Design Standards and Construction Specification for better Quality Infrastructure:

In the final stage of upgrading the Cambodia Road, Bridge Design Standards and Construction Specification (support from Australia Government through P4I) with introduction to the Design Specification, Inclusive and Resilient.

It includes:

- ❑ **Road Design Standard:**
 - a. Road Geometry Design,
 - b. Road Intersection Design,
 - c. Road Drainage Design,
 - d. Road Pavement Design,
 - e. Test Methods.
- ❑ **Bridge Design Standard**
- ❑ **Construction Specification**
- ❑ **Traffic Control Device Standard.**



IV.2 Comprehensive Intermodal Transport & Logistics System Master Plan 2023-33

- Approved by the Former PM in August 2023
- Vision: Improve and Develop a Sustainable and Inclusive Intermodal transport network and logistics system to support the sustainable economic growth.
- Identifies 174 priority projects with the total estimated investment of 36.6 billion USD by 2033 in different modes as follows:

No.	Type of Projects	Short-T	Long-T
1	Road Projects		
1.1	Expressways	4	5
1.2	National, Provincial Roads	31	54
2	Railways	4	4
3	Inland Waterways	16	9
4	Maritime Transport	14	9
5	Air Transport	10	0
6	Logistics Projects	9	8
7	Additional (Soft components)	2	2

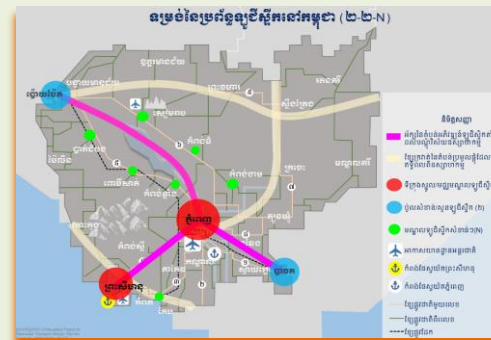


CITLS defined two Principles



Transport Strategic Plan 3-3-4-2

- 3 Transport Main-Corridors (Green lines)
- 3 Transport Sub-Corridors (Brown lines)
- 4 Growth Poles (Red dots)
- 2 Connecting Poles (Yellow dots)



Logistics Strategic Plan 2-2-N

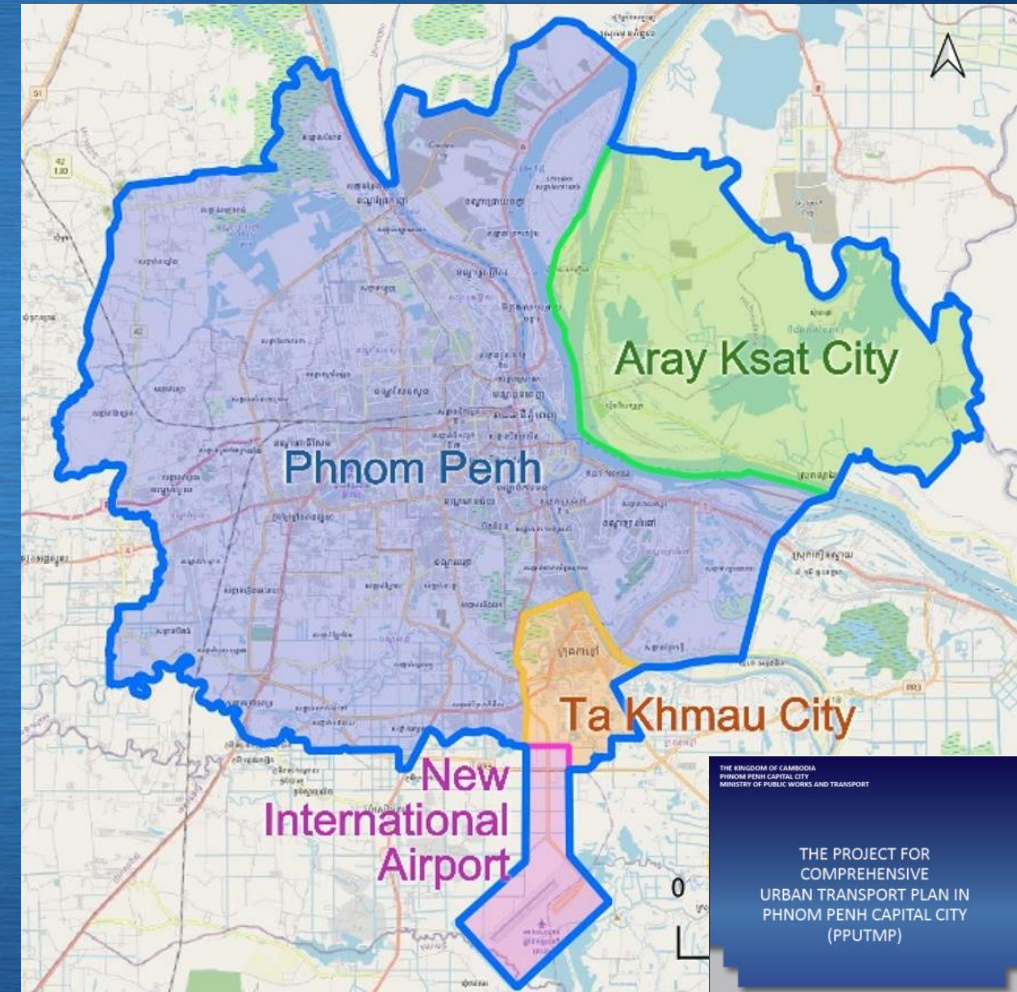
- 2 Main Logistics Hubs, PP & SHV (Red dots)
- 2 Main Logistics Parks, Poipet & Bavet (Blue dots)
- N Major and Secondary Logistics Nodes.

V. Report on Goal 4: Urban Access

V.1 Comprehensive Urban Transport Plan in Phnom Penh City

The 2014 Comprehensive Urban Transport Plan in Phnom Penh Capital is being updated by considering:

- City Expansion
- Integration of Land Use and Transport Plan,
- Integrated Public Transport Network, Road, Rail, Waterway, Paratransit,
- TODs planning and Development,
- Connection to New Airport,
- Application of ITS



V.2 Major Cities' Roads Upgrading Project

During Covid-19 the Government allocated budget for BUILDING Road Network in two major cities

36 lines of City Roads in Sihanoukville with the length of 84.06km were built with high Standard including roads along the seashore (2019-2021)



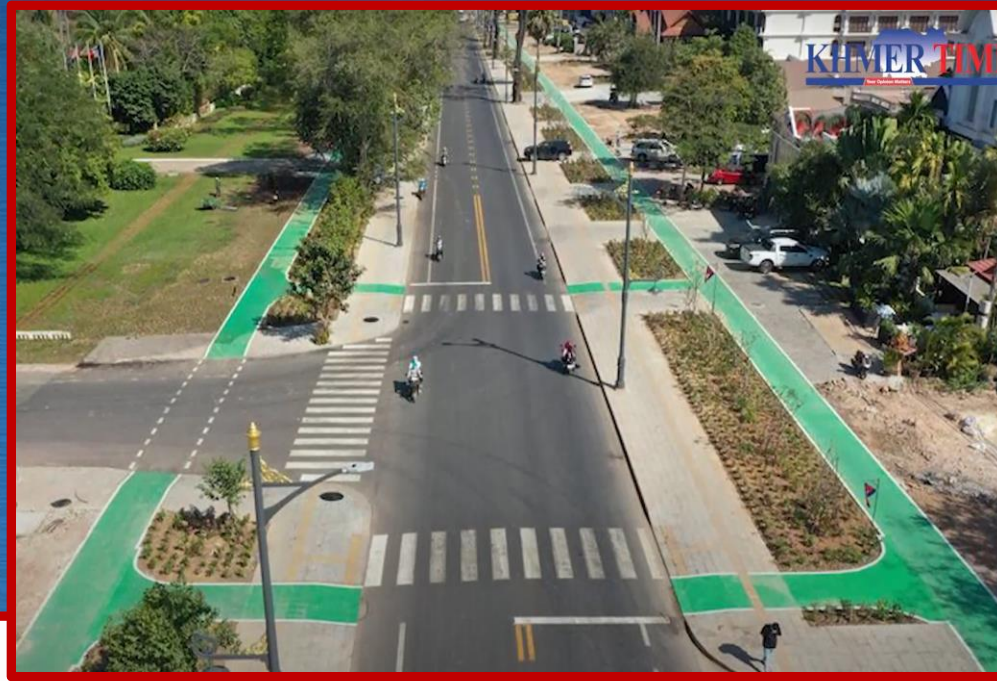
ក្រុងព្រះសីហនុ

ផ្លូវ ២៨ មិច្ឆនា ផ្លូវដីដែលមានមេត្រីភាពរវាងមនុស្ស ធម្មជាតិ បរិស្ថាន និងផ្លូវវេយន្ត



Another 38 lines of City Roads in Siem Reap, Angkor Wat City with the length of 105.61km were built with high Standard including bike lanes (2021-2022)

E-bus as Public Transport System is under Full F/S (First 3 lines)



**Thank you
for your attention**

