Regional Meeting on Just Transition to Low Carbon Mobility in Asia and the Pacific and
Joint Workshop on Electrification of Public Transport

Bangkok and online

10 - 11 August 2022

MAJOR CONCLUSIONS AND RECOMMENDATIONS

1. The Regional Meeting on Just Transition to Low Carbon Mobility in Asia and the Pacific and Joint Workshop on Electrification of Public Transport was organized by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) and held in hybrid format in Bangkok on 10 and 11 August 2022.

2. The Regional Meeting and Joint Workshop was attended by the representatives of the following ESCAP member States: Armenia, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, China, Fiji, Georgia, India, Indonesia, Iran (Islamic Republic of), Kazakhstan, Lao People’s Democratic Republic, Maldives, Mongolia, Nauru, Nepal, Pakistan, Papua New Guinea, Philippines, Russian Federation, Solomon Island, Sri Lanka, Tajikistan, Thailand, Tuvalu, United Kingdom of Great Britain and Northern Ireland, Vanuatu, and Viet Nam. The Meeting was attended by representatives of international organizations, research institutes, transport and logistics industry companies and professional associations, as well as by invited resource persons. The list of participants is attached in Annex I. The programme of the Meeting is attached in Annex II.

3. Mr. Weimin Ren, Director, Transport Division, UNESCAP, Mr. Punya Chupanit, Director-General, Office of Transport and Traffic Policy and Planning (OTP), Ministry of Transport, Thailand and Mr. Pornprom Vikitsreth, Adviser to the Governor of Bangkok, Bangkok Metropolitan Administration delivered opening statements.

4. The participants of the Regional Meeting and Joint Workshop welcomed the presentations made and exchanged information on their respective national plans and policies on low carbon transport and electrification of public transport.

5. The Regional Meeting stressed the importance of just transition to low carbon mobility and social inclusion. In this context, decent work international standards, challenges and opportunities with regards to the transport workforce, and fundamental principles and rights at
work were discussed. The Regional Meeting recognized that a gender equal just transition to sustainable and net zero carbon transport must go hand in hand with the social protection of transport workers, including job accessibility and security, access to decent work for all, and to put people at the center of development. Guidance is available for countries to pursue a just transition, including global standards on the fundamental principles and rights of work and on the transition to formality. Social dialogue includes all types of negotiation and consultation to engage governments, workers and employers. A gender-responsive approach, in different levels, is also an important factor to achieve compliance of the global standards and goals, including the prevention and elimination of discrimination, violence and harassment in the transport sector. The transition to sustainable transport will ultimately depend on its workforce and the sustainability of transport enterprises. Therefore, workers and employers need to be on board and be actively involved in the transition process as well. The participants thanked ESCAP for including the topic of transport workforce and decent work in the meeting.

6. The Regional Meeting also acknowledged the need for effective emissions monitoring systems and energy efficiency standards, effective ways to manage transport demand and incentivize modal shift, cross-sectoral cooperation and coordination and use of technology.

7. The participants noted that the United Nations institutional framework for climate action under the UNFCCC, the Paris Agreement and the 2030 Agenda all provide the global context within which the region can define its goals and objectives for low or zero carbon transport. In that regard, several speakers noted the potential of the Nationally Determined Contributions (NDCs) as a good entry point for raising ambition on climate mitigation in the transport sector. The transport sector plays an important role in mitigating carbon dioxide (CO₂) emissions and its action will have global consequences. High investments will be required to decarbonize the transport sector and to unlock climate finance through multiple stakeholder engagement.

8. The meeting also noted the importance of linking global discourse on transport and climate change with regional dialogues and actions. For example, outcomes related to just transition, technology and finance from the intergovernmental climate change negotiations provide directions for regional policies and programs. This can be useful to calibrate understanding of global views and trends, as well as to identify capacity-building initiatives and obtain latest financial, technical and policy guidance related to a just transition to low carbon mobility, evidence-based policy planning and creation of decent work and quality jobs.

9. The meeting noted the recommendation to member States to take necessary national coordination action to strengthen the commitments on transport in their respective NDCs. The ESCAP secretariat noted that it stands ready to assist member States in that regard.

10. The Regional Meeting also noted that the challenges faced by countries in the development of electric vehicle (EV) ecosystem are related to upfront high cost, standards of
charging infrastructure, informal transport (two and three-wheelers), range anxiety, and battery management and disposal.

11. The meeting discussed the policy changes needed to promote policies on low or zero carbon transport linking to the global climate change policy process, as well as acceleration the implementation of polices or initiative reflected in the NDCs. The need to update NDCs annually was considered, as well as recognizing the significant role transport plays in reducing \( \text{CO}_2 \) emissions. In this context, the regional meeting supported the proposed Regional Cooperation Mechanism on Low Carbon Transport, with the goal to strengthen regional cooperation, knowledge sharing, exchange of good practices and capacity development. Many member States and organizations expressed interest in participating in the planned regional and subregional consultations as part of the mechanism. Outputs from the mechanism will help guide policy directions, identify support needed and contribute to the unlocking of climate finance, but ultimately, each country has to set up its own transport emission target.

12. The Regional Meeting highlighted the need to engage multi-sector stakeholders and the private sector in the process of the development of low carbon mobility policies and their implementation. Other sectors that would need to be engaged include energy, environment, urban development, and labor.

13. For urban and public transport, the participants expressed concerns related to rising urbanization and motorization rates and growing emissions in Asia and the Pacific. They discussed the importance of reducing transport emissions and shifting to the use of renewable energy in the transport sector.

14. Country representatives also presented their respective low carbon transport and electric mobility policies and their plans towards decarbonizing transport. In this respect, initiatives and policies for urban and public transport, including the plans for providing high-quality public transport services that are accessible, reliable and safe, while promoting the use of energy-efficient vehicles and shift to renewable energy sources, are the policy measures that need to be considered to meet the Paris Agreement decarbonization target by 2050. The United Kingdom of Great Britain and Northern Ireland also presented recent activities and outputs of its Zero Emission Vehicle Transition Council, including an Asia-Pacific regional dialogue.

15. The use of hydrogen in fuel cell EV for public transport was raised as a potential energy source, which has environmental benefits and operational flexibility. However, hydrogen is still in its pilot phase, where the technology will need to be scaled up.

16. It is acknowledged that although the market penetration of new EVs is still relatively low, its growth in the Asia-Pacific region is promising. The Regional Meeting recognized ESCAP’s work on the policy support of electric mobility development in public transport and supported the proposed Asia-Pacific Initiative on Electric Mobility and extended their expectation that the Initiative could help them in addressing the challenges they have been
facing in implementing polices and actions towards electric mobility. The meeting encouraged member States and organizations to join the Initiative and share knowledge, experiences and best practices for coordinated regional efforts on the electrification of public transport.

17. The Regional Meeting and Joint Workshop noted various policies and operation models used to accelerate the transition to electric mobility, including solutions related to urban planning. It also appreciated the policy efforts and initiatives shared by member States, including Bangladesh, Bhutan, Cambodia, China, Fiji, Georgia, India, Lao People’s Democratic Republic, Malaysia, Mongolia, Nepal, Russian Federation, Thailand, and Viet Nam. Research institutes updated low carbon and electric mobility polices in the Republic of Korea and Singapore.

18. The Joint Workshop welcomed Thailand’s preparedness towards electric mobility and contribution of the private sector in electric mobility operations and the establishment and operation of charging infrastructure. It also noted that strong collaboration among various agencies, public and private sector and academia was essential to move towards zero carbon transport. The importance of EV safety was also highlighted.

19. The Joint Workshop noted Thailand’s electric mobility policies that are part of its NDCs. It also commits to achieve more sustainable transport to reduce CO\textsubscript{2} emissions and meet the carbon neutrality goal by 2050. Action plans for the transport sector have been developed where electromobility, including electric buses, plays an important role, as well as green and safe transport. Strong policies and clear targets are required to accelerate the market uptake of electric vehicles and to realize Thailand’s vision to become the global production and supplier hub for electric vehicle automotive parts.

20. The discussion session made the following recommendations for the transition towards low carbon and electric mobility.
   - Strengthen consultation among countries and stakeholders, including the private sector
   - Organize regular meetings on low carbon and electric mobility
   - Promote diffusion of knowledge and technology
   - Finalize standards of charging infrastructure
   - Select appropriate financing and operation models
   - Raise the awareness of the benefits of electric mobility
   - Strengthen countries’ capacity to support the transition and develop robust policy frameworks
   - Set targets on transport emission reduction.

21. The Meeting participants were very satisfactory with the planning and organization of the workshop and stated that the workshop achieved its objectives, which were clear and instrumental to the success of achieving a just transition to low carbon transport. The scope of agenda was also appreciated.
22. The Meeting participants found the Regional Meeting and Joint Workshop useful, as the sessions had increased their knowledge, skills and understanding. Some of the important aspects were the direct alignment between the topics discussed and the participants’ current work, specific insights on the application and promotion of electrified public transport, financial models for electric mobility, use of battery, and the impact of electrification on transport workers. Participants also appreciated the broad scope of discussions, as well as best practices and experiences shared by various countries.

23. The Regional Meeting requested the secretariat to report the outcomes related to the Regional Cooperation Mechanism on Low Carbon Transport and Asia-Pacific Initiative on Electric Mobility to the seventh session of the Committee on Transport to be held in November 2022. Specific activities that will be developed as part of these two initiatives will also be shared with member States.

24. The participants also requested the ESCAP secretariat to continue to provide capacity building, advisory services and technical assistance, subject to availability of resources, to support member States in their efforts towards the transition to low carbon transport and electric mobility in the region. Bangladesh, Bhutan and Cambodia requested for technical and capacity building support in the areas of low carbon mobility policy, electric mobility, institution development and charging infrastructure.

25. The ESCAP secretariat expressed gratitude to all country representatives, experts, regional and international organizations, academia, and the private sector for their participation in the Regional Meeting and Joint Workshop, and for their engagement and cooperation. The secretariat informed all participants about the forthcoming seventh session of the Committee on Transport, schedule to be held in Bangkok from 23 to 25 November 2022.


27. These major conclusions and recommendations of the Regional Meeting on Just Transition to Low Carbon Mobility in Asia and the Pacific and Joint Workshop on Electrification of Public Transport were adopted on 11 August 2022 in Bangkok.
Regional Meeting on Just Transition to Low Carbon Mobility in Asia and the Pacific
and
Joint Workshop on Electrification of Public Transport
10 - 11 August 2022
9:00 – 16:00 (UTC +7)
Meeting Room F, United Nations Conference Center (UNCC)
Bangkok, Thailand and Online

Tentative Programme

Introduction and Objectives
The two-day “Regional Meeting on Just Transition to Low Carbon Mobility in Asia and the Pacific” and “Joint Workshop on Electrification of Public Transport” will highlight existing challenges in the region and identify policy action that will enable the achievement of a just and inclusive transition to low carbon transport, including the shift to electric mobility in public transport. Key discussions will contribute to the specific objectives of the Regional Action Programme for Sustainable Transport Development in Asia and the Pacific (2022–2026), including the formulation of a Regional Cooperation Mechanism on low carbon transport and electric mobility, as well as the development of an Asia-Pacific Initiative on Electric Mobility. This regional meeting and joint workshop serve as a forum for multi-stakeholder engagement and the sharing of best practice knowledge among ESCAP member States, as well as other relevant transport, urban and energy stakeholders.
Day 1: Wednesday, 10 August 2022
Regional Meeting on Just Transition to Low Carbon Mobility in Asia and the Pacific

<table>
<thead>
<tr>
<th>Time (15 min)</th>
<th>Opening of the Regional Meeting and Workshop</th>
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<tbody>
<tr>
<td>9:00 – 9:15</td>
<td>The Opening Session will present the structure and key objectives of the regional meeting and joint workshop.</td>
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<td></td>
<td>Speakers:</td>
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<tr>
<td></td>
<td>- <em>Opening, structure and objectives of meeting</em>, Mr. Weimin Ren, Director, Transport Division, ESCAP</td>
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<td>- <em>Opening statement</em>, Mr. Punya Chupanit, Director-General, Office of Transport and Traffic Policy and Planning (OTP), Ministry of Transport, Thailand</td>
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<td>- <em>The transition to low carbon mobility in Bangkok</em>, Mr. Pornprom Vikitsreth, Adviser to the Governor of Bangkok, Bangkok Metropolitan Administration</td>
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<tr>
<th>Time (75 min)</th>
<th>Session 1: Just Transition to Low Carbon Transport</th>
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<tbody>
<tr>
<td>9:15 – 10:30</td>
<td>A just transition to low carbon transport will require changes in technologies, policies, regulatory framework, and the training of transport workers. Transport workers would need to have the knowledge, skills and experience to design and staff low or zero carbon transport services. In addition, gender equality would need to be further improved in the transport workforce to ensure greater sustainability and resiliency. This session is focused on the identification of policies that can support a just transition to low carbon transport in Asia and the Pacific.</td>
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<td>Speakers:</td>
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<td></td>
<td>- <em>Existing policies on building a just and inclusive transition to low carbon transport</em>, Ms. Luksanawadee Tanamee, Office of Transport and Traffic Policy and Planning (OTP), Ministry of Transport, Thailand</td>
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<td>- <em>Global standards for ensuring a just and inclusive transition to low carbon transport</em>, Ms. Alejandra Cruz, International Labour Organization</td>
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<td>- <em>International experiences on building a diverse and equitable transport workforce</em>, Mr. Bruno Dobrusin, International Transport Workers Federation</td>
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Questions and Discussion
### Coffee Break (15 min)

### Session 2: Low Carbon Transport and the Shift to Electric Mobility

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<tr>
<th>Time (75 min)</th>
<th>Collaboration between countries and among different stakeholder groups will be increasingly critical to the success of low and zero carbon transport. The United Nations ESCAP is also committed to develop a regional cooperation mechanism on low carbon mobility for Asia and the Pacific, as well as an Asia-Pacific Initiative on Electric Mobility to support the acceleration of the transition to electric-mobility for public transport in the region. This session is focused on the importance of regional collaboration and existing global, regional and sub-regional initiatives on electric mobility.</th>
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<tr>
<td><strong>10:45 – 12:00</strong></td>
<td><strong>Speakers:</strong></td>
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<td></td>
<td>• Linking regional dialogues to the global discourse on transport and climate change, Mr. Marlan Pillay, United Nations Framework Convention on Climate Change (UNFCCC)</td>
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<td>• A global initiative on zero emission vehicles, Ms. Naomi White, Zero Emission Vehicle Transition Council</td>
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<td>• Sustainable Transport in ASEAN, Mr. Beny Irzanto, ASEAN Secretariat</td>
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<td></td>
<td>• Regional Cooperation Mechanism on Low Carbon Transport, Ms. Wei-Shiuen Ng, ESCAP</td>
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<td><strong>Question and Discussion</strong></td>
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<td><strong>Intervention from ESCAP member States</strong></td>
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### Lunch Break (60 min)

### Session 3: Global and Regional Experiences on Electrification of Public Transport

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<tr>
<th>Time (75 min)</th>
<th>The electrification of public transport remains a key measure to accelerate the decarbonization of road transport in many ESCAP member States. This session examines priority policies in Asia and the Pacific, and global and regional experiences in the electrification of public transport and guidelines that can accelerate its adoption. Existing policies and operation models of electric public transport will also be discussed.</th>
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<td><strong>13:00 – 14:15</strong></td>
<td><strong>Speakers:</strong></td>
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<td>• Electric mobility activities in Asia, Mr. Alexander Koerner, UNEP</td>
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<td>• Innovations in public transport, Ms. Karine Sbirrazzuoli, International Association of Public Transport (UITP)</td>
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<td>• Business models and contracting structures for electric buses - best practices and lessons learned, Mr. Gautam Patel, ESCAP Consultant</td>
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<td></td>
<td>• Financing the electrification transition in Asia and the Pacific, Mr. Shuji Kimura, Asian Development Bank</td>
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### Session 4: National Experiences on Electrification of Public Transport

**Time (75 min)**

14:30 – 15:45

The session presents some national experiences on the electrification of public transport in Asia and the Pacific. ESCAP member States are invited to intervene and share their challenges and policy priorities in accelerating the transition to electric mobility, particularly in public transport.

**Speakers:**

- **Planning and deployment of electric bus fleets in Indian cities,**
  Prof. Shivanand Swami, CEPT University
- **New energy vehicles: Experience from China and Chinese cities,**
  Mr. Yuan Minmin, Research Institute of Highway, China
- **Singapore’s policies and strategies on low carbon transport and electric mobility,**
  Prof. Lynette Cheah, Singapore University of Technology and Design
- **Fuel cell electric vehicle (FCEV) for public transport in the Republic of Korea,**
  Mr. Young In Kwon, Korea Transport Institute

**Question and Discussion**

### Session 5: Wrap Up of Day 1

**Time (15 min)**

15:45 – 16:00

Key discussion points from Day 1 of the regional meeting will be presented.

### Day 2: Thursday, 11 August 2022

**Joint Workshop on Electrification of Public Transport**

### Session 6: Policies and Operation Models of Electric Public Transport

**Time (90 min)**

9:00 – 10:30

This session will present and discuss various policy landscape and operation models of electric public transport. Countries and experts are also invited to share their national innovative policies on transition towards electric mobility.

**Speakers:**

- **Comparison of international EV policies and institutional arrangements,**
  Mr. Gautam Patel, ESCAP Consultant
- Asia-Pacific renewable energy outlook and Thailand's energy transition, Mr. Michael Williamson, Energy Division, ESCAP
- Electrification of the BRT network in Indonesia, Mr. Yoga Adiwinarto, Transjakarta
- Development options for the development of electric public transport in the Russia Federation, Mr. Aleksandr Morozov, International Association of Public Electric Transport Enterprises
- Electric mobility and shift to electrification of paratransit in Bangladesh, Mr. Md. Anisur Rahman, Road Transport and Highways Division, Ministry of Road Transport and Bridges, Bangladesh
- Policies to support electric mobility in Georgia, Ms. Margalita Arabidze, Ministry of Economy and Sustainable Development, Georgia

**Question and Discussion**

**Coffee Break (15 min)**

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<tr>
<th>Session 7: Preparedness on Transition to Electric Mobility in Thailand</th>
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<td><strong>Time (90 min)</strong></td>
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<td>As part of the “Accelerating the Transition to Electric-mobility for Public Transport in Asia and the Pacific” project, ESCAP is working closely with Thailand to build its capacity to develop policies and strategies that will accelerate the electrification of its public transport vehicle fleets. This session is focused on the transition to electric mobility in public transport in Thailand and current trends and challenges.</td>
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<td><strong>Speakers:</strong></td>
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<tr>
<td>- <strong>National vision, strategies and policies for electrification of transport in Thailand</strong>, Ms. Luksanawadee Tanamee, Office of Transport and Traffic Policy and Planning (OTP), Ministry of Transport, Thailand</td>
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<td>- <strong>The current state of urban public transport in Bangkok and major cities in Thailand</strong>, Dr. Siradol Siridhara, Mahidol University, Thailand</td>
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<td>- <strong>Financing models for electrification of public transport in Bangkok</strong>, Mr. Papondhanai Nonthachatavankul, GIZ</td>
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<tr>
<td>- <strong>Development and operation of EV and charging infrastructure</strong>, Mr. Chantakorn Gridwitchayayarkarn, Committee Member, Electric Vehicle Association of Thailand (EVAT)</td>
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<td><strong>Question and Discussion</strong></td>
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**Lunch Break (60 min)**

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<th>Session 8: Policies and Strategies for Electrification of Public Transport</th>
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<td><strong>Time (90 min)</strong></td>
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| 13:15 – 14:45| including government, private sector and academic representatives joining the discussion.  

**Speakers:**
- *Regulation and operation of public transport fleet and electric vehicle in Thailand*, Mr. Chuckrit Tangchaitrong, Department of Land Transport, Ministry of Transport, Thailand
- *MEA's Support for Electrification of Public Transport*, Mr. Manat Aroonvatanaorn, Metropolitan Electricity Authority (MEA)
- *Operation of electric transport in Bangkok: experience of private sector and lessons learned*, Dr. Akarin Suwannarat, Energy Absolute PCL
- *Emission reduction potential of electric mobility in Thailand*, Dr. Yossapong Laoonual, Associate Professor, King Mongkut's University of Technology Thonburi (KMUTT)
- *Electric mobility policies of the Republic of Korea*, Dr. Kyuok Kim, Korea Transport Institute

**Question and Discussion**

**Coffee Break (15 min)**

**Discussion and the Way Forward**

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<th>Time (60 min)</th>
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| 15:00 – 16:00| The Closing Session will identify the way forward for the Asia-Pacific region and contributions to relevant discussions on low carbon transport. Key priority actions required for ESCAP member States. ESCAP member States are invited to intervene and share their priority actions.  

**Speakers:**
- *National and regional priorities*, ESCAP member States  
  - Bhutan  
  - Fiji  
  - Lao PDR  
  - Malaysia  
  - Nepal  
  - Cambodia

**Question and Discussion**
- *Closing remarks*, ESCAP
UNITED NATIONS
ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC

Regional Meeting on Just Transition to Low Carbon Mobility in Asia and the Pacific

UNCC, Bangkok, 10-11 August 2022

LIST OF PARTICIPANTS

ARMENIA

Mr. Vahram Kazhoyan, Ambassador of Armenia to Vietnam, Cambodia, Laos and the Philippines, Permanent Representative or Armenia to UN ESCAP, Ministry of Foreign Affairs, Embassy of Armenia in Viet Nam.

BANGLADESH

Mr. Md. Anisur Rahman, Joint Secretary, Road Transport and Highways Division.

BHUTAN

Mr. Sonam Tobgye, Project Manager, Electric Vehicle Project, Prime Minister's Office.

BRUNEI DARUSSALAM

Mr. Ridzuan Ahmad, Acting Director, Land Transport Department.

Mr. Muhammad Hadri Awang Nasib, Research and Development Officer, Land Transport Department.

Mrs. Fadzila Abdul Hamid, Research and Development Officer Transport Division, Ministry of Transport and Infocommunications.

Ms. Salmimanja Hassan, Special Duties Officer Grade I, Transport Division, Ministry of Transport and Infocommunications.

Mrs. Nur Syamimi Haji Mat Daud, Ports Officer, Transport Division, Ministry of Transport and Infocommunications.

Ms. Nurul Izni Merni, Executive Officer, Transport Division, Ministry of Transport and Infocommunications.
CAMBODIA

Mr. Sophal Kong, Deputy Director General and Head of NTTCC Secretariat, General Department of Land Transport, Ministry of Public Works and Transport.

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Mr. Kunkun Zhang, Officer, Ministry of Transport.

Mr. Minmin Yuan, Researcher, Research Institute of Highway, Ministry of Transport.

Ms. Xiaofei Liu, Assistant Research Fellow, Research Institute of Highway, Ministry of Transport.

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Ms. Margalita Arabidze, Head, Energy Efficiency, Renewable energy policy and Sustainable Development Department, Ministry of Economy and Sustainable Development.

Mr. Giorgi Machavariani, Senior Specialist, Ministry of Environmental Protection and Agriculture.

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Ms. Himani Jain, Senior Programme Lead, Mobility, CEEW.

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Mr. Seyed Mojtaba Shafie, Deputy Mayor, Municipality of Tehran, Traffic & Transportation Deputy Office.

Mr. Hormoz Zakeri, General Director Assistance, Ministry of Road and Urban Development.

Mr. Behdad Abdollahi, Director of Scientific & International Co-operations, Municipality of Tehran - Deputy office for Traffic & Transportation.

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Mr. Nurbolat Alimbayev, Deputy Permanent Representative of Kazakhstan to UN ESCAP, Permanent Mission of Kazakhstan to UN ESCAP.
LAO PEOPLE’S DEMOCRATIC REPUBLIC

Mr. Kham Athideth Manikham, Deputy Director, Vehicle and Machinery Management Division, Department of Transport, Ministry of Public Works and Transport.

MALDIVES

H.E. Ms. Aishath Nahula, Minister, Ministry of Transport and Civil Aviation.

H.E. Mr. Shimaaz Ali, Deputy Minister, Ministry of Transport and Civil Aviation.

MONGOLIA

Mr. Odgerel Ulziikhutag, Senior Expert, Ministry of Road and Transport Development.

NAURU

Mr. Midhun Ajaykumar, Director of Energy, Department of Climate Change and National Resilience (DCCNR), Government Office.

Ms. Miniva Harris, Project Manager, Department of Climate Change and National Resilience (DCCNR), Government Office.

NEPAL

Mr. Biju Kumar Shrestha, Joint Secretary and Head, Infrastructure and Production Division, National Planning Commission.

Mr. Keshab Kumar Sharma, Joint Secretary, Ministry of Physical Infrastructure and Transport.

PAKISTAN

Mr. Syeda Hadika Jamshaid, Deputy Director, Ministry of Climate Change.

Mr. Hameed Akhter, Chief, National Transport Research Centre (NTRC), Ministry of Communications.

Mr. Khizer Javed, Deputy Chief, National Transport Research Centre, Ministry of Communications.

PAPUA NEW GUINEA

Mr. Philemon Senginawa, First Secretary, High Commission of Papua New Guinea, Malaysia.

Mr. Joseph Jure, Senior Technical Officer, Conservation & Environment Protection Authority.

Mr. Minando Baro, Mitigation & Low Carbon Growth Officer, REDD+ and Mitigation Division, Climate Change & Development Authority.

Ms. Rensie Panda, Acting Executive Manager, National Energy Authority (NEA).
PHILIPPINES

Mr. Jaime Jimmy Borjal, Supervising Transportation Regulation Officer, Land Transportation Office Region IV-A.

Ms. Evangeline Nova, Senior Transport Development Officer, Department of Transportation.

Ms. Michelle Caoili, Senior Communications Development Officer, Department of Transportation.

Ms. Ana Dominique, Consultant, Officer-In-Charge, International Cooperation Division, Department of Transportation.

Ms. Sarah Maria Lucas Chavez, Project Development Officer III, Department of Transportation.

Ms. MA. Angelica Beatriz Guevarra Camacho, Field Technical Assistant, UNDP Low Carbon Transport (LCT) Project.

RUSSIAN FEDERATION

Ms. Regina Azizova, Head of Division, International Cooperation Department, Ministry of Transport of the Russian Federation.

Mr. Ruslan Syrtlanov, Consultant, International Cooperation Department, Ministry of Transport of the Russian Federation.

Mr. Vadim Donchenko, Scientific Director, Scientific and Research Institute of Motor Transport (NIIAT).

Mr. Aleksandr Morozov, Vice-President, International Association of Public Electric Transport Enterprises (MAP GET).

SOLOMON ISLANDS

Mr. John Isidoro Korinihona, Director, Energy Division, Ministry of Mines, Energy & Rural Electrification.

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Mr. Roshan Lalindra Molagoda, Director (Technical), Ministry of Transport and Highway.

TAJIKISTAN

Mr. Firuz Mahmudov, Head, International Division, Ministry of Transport.

THAILAND

Mr. Punya Chupanit, Director General, Office of Transport and Traffic Policy and Planning, Ministry of Transport.
Mr. Prapatpaow Awakul, Director, International Affairs Division, Ministry of Transport.

Mr. Roengsak Tongsom, Director, Transport and Traffic System Development Division, Office of Transport and Traffic Policy and Planning, Ministry of Transport.


Mr. Manat Aroonvatanaapor, Director, Power System Research and Innovation Department Metropolitan Electricity Authority.

Mr. Roj Traiwiwattahaysilp, Deputy Director, Transportation Department, Bangkok Metropolitan Administration.


Mr. Pornprom Vikitsreth, Adviser to the Governor of Bangkok (Environment Affairs), Bangkok Metropolitan Administration.

Mr. Jarupong Pengglieng, Director of Planning and City Capacity Development Division, Bangkok Metropolitan Administration.

Mr. Akkarapol Chatchavalvanich, Foreign Relation Officer Bangkok Metropolitan Administration.

Ms. Nada Weayusoh, Secretary of Advisor to Governor of Bangkok Bangkok Metropolitan Administration.


Mr. Monchai Chumintarajak, Civil Engineer Professional, Office of Transport and Traffic Policy and Planning, Ministry of Transport.

Mr. Ruengchai Kadeeroj, Plan and Policy Analyst, Senior Professional Level, Office of Transport and Traffic Policy and Planning, Ministry of Transport.


Mr. Satsavas Sukyu, Transport Technical Officer, Ministry of Transport.


Mr. Phuchiss Phantharat, Practitioner Level, Civil Engineer, Bangkok Metropolitan Administration.

Mr. Chuckrit Tangchaitrong, Senior Expert on Automotive Engineering, Department of Land Transport.

Ms. Raya Wannitsakul, Transport Technical Officer, Practitioner Level, Department of Land Transport.

Ms. Ratee Boonnity Transport Technical Officer, Senior Professional Level Department of Land Transport.

Mr. Kiatnarong Kruba, Scientist, Senior Professional Level, Department of Land Transport.

Mr. Pongpanote Tangmong, Scientist, Practitioner Level, Department of Land Transport.

Ms. Thitima Saeng-ngam, Scientist, Practitioner Level, Department of Land Transport.

**TUVALU**

Mr. Simona Kilei, Director, Department of Energy, Government of Tuvalu.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

Ms. Alana Dave, Urban Transport Director, The International Transport Workers’ Federation.

Mr. Bruno Dobrusin, Just Transition Coordinator, The International Transport Workers’ Federation.

**VANUATU**

Mr. John Hilenavanua Tavuti, Fleet Manager, Public Works Department.
VIET NAM

Ms. Trang Quynh Nguyen, Senior Official, International Cooperation Department, Ministry of Transport.

Ms. Ngoc Bich Phan, Expert, Legal-Science Technology Department, Viet Nam Register, Ministry of Transport.

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ORGANIZATIONS

ASEAN Federation of Engineering Organizations

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ASEAN Secretariat

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Asian Development Bank

Mr. Shuji Kimura, Senior Transport Specialist, Transport Division, Southeast Asia Regional Department.

International Labour Organization

Ms. Alejandra Cruz Ross, Transport Specialist, Sectoral Policies Department.

United Nations Environment Programme

Mr. Alexander Körner, Programme Officer, Sustainable Mobility Unit, Economy Division.

United Nations Framework Convention on Climate Change

Dr. Kusum Lata, Team Lead, Mitigation Impact Assessment Support.

Mr. Marlan Pillay, Programme Officer. Transparency division.

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Universiti Teknologi Malaysia
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