



# Roles of Regional Cooperation (Session 6)

## The 2<sup>nd</sup> International Forum on Low Carbon Cities

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*Sheraton Grand, Incheon, Republic of Korea*

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# Presentation Outline



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**PART 1: Projected GHG emission trends**

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**PART 2: Regional Cooperation for Low-Carbon Cities**

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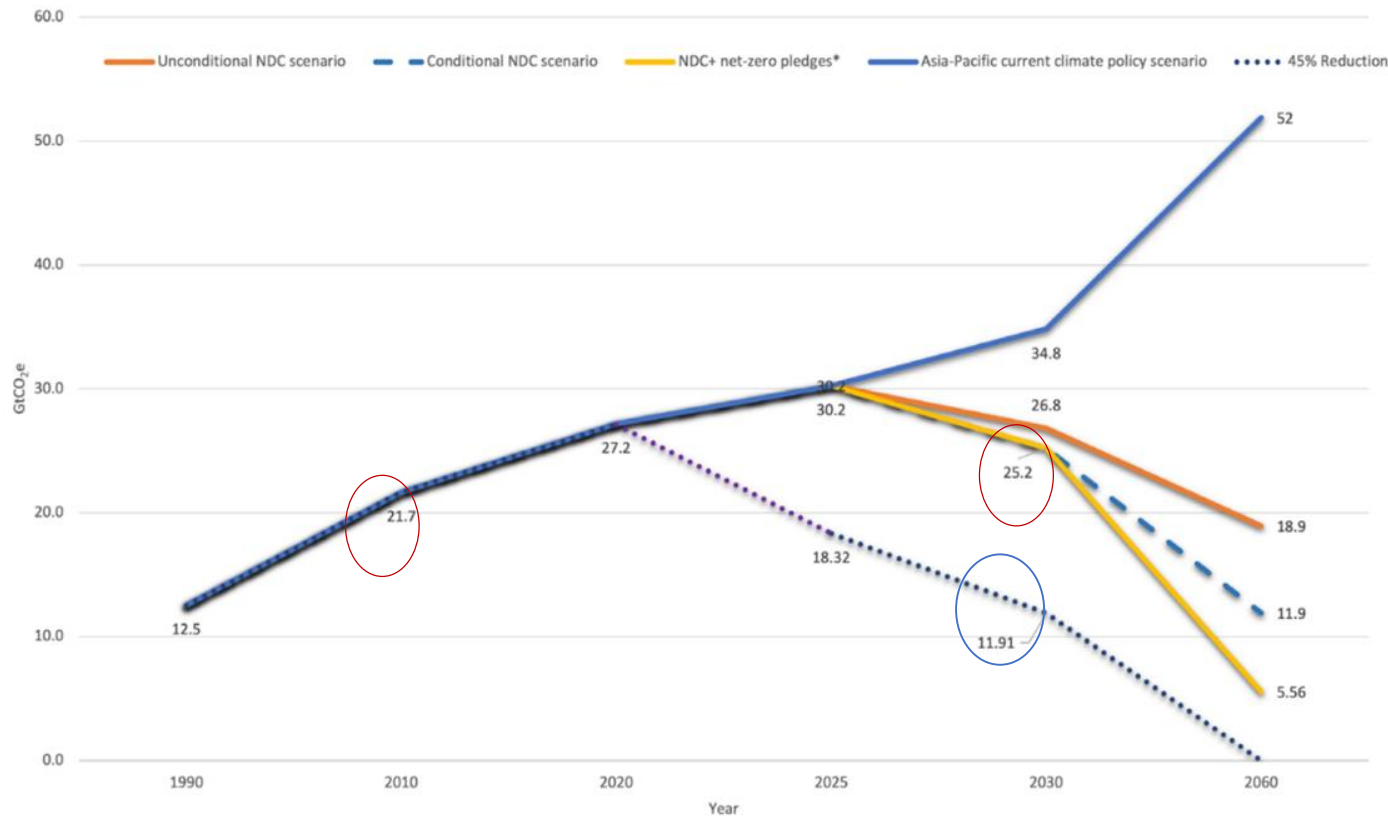
**PART 3: Key Recommendations for Advancing Low Carbon Cities in Asia-Pacific**

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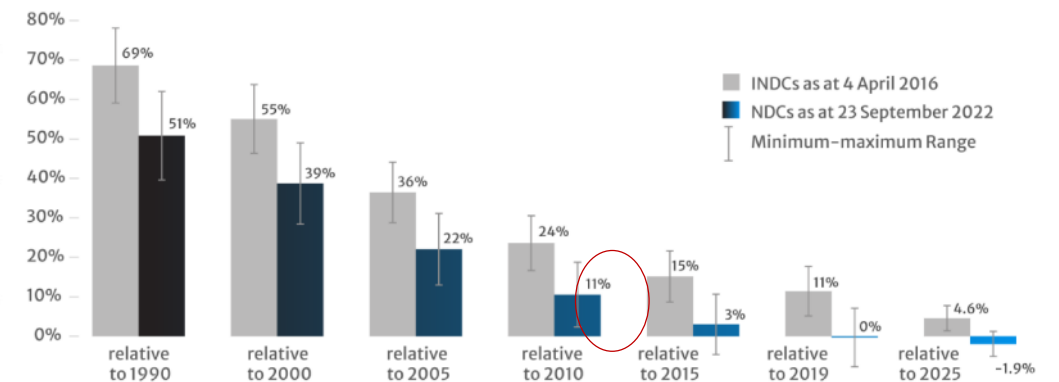
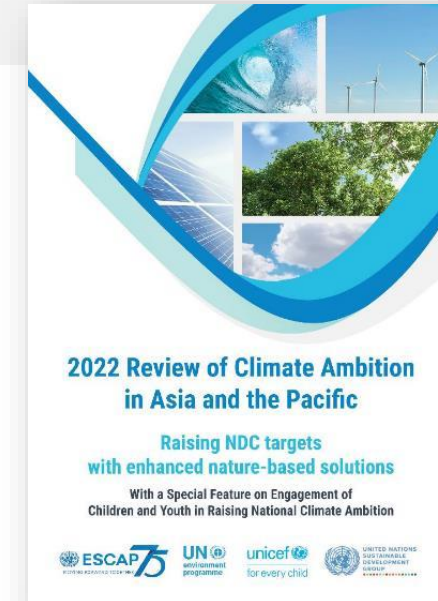
**Part 4: Conclusion**

# Part 1: Expected GHG emission trend at Regional & Global Levels:

GHG emissions scenarios with compounded NDC and carbon neutral pledges for the Asia-Pacific region, (GtCO<sub>2</sub>e), 1990-2060



GHG emissions scenario with compounded NDC and carbon neutral pledges for the Asia-Pacific region, (GtCO<sub>2</sub> e), 1990-2060



UNFCCC, NDC Synthesis Report, Oct 2022

## Part 2: Regional Cooperation for Low-Carbon Cities

- **Cities** play a critical role in improving quality of life and **accelerating the transition to renewable energy and net-zero targets.**
- This requires the **highest energy efficiency, expansion of renewable sources, and effective waste management.**



## Part 2: Regional Cooperation for Low-Carbon Cities

- Achieving the **goal of low-carbon cities** and societies that consume sustainable green technology, and green practices, and emit relatively low GHG to avoid the adverse impacts of climate change requires:
  - (i) Common agenda** and cooperation across the region, including transboundary issues, among key **public, private and civil society stakeholders**.
  - (ii) Building the technical capacity** of cities to respond to multiple crises and develop climate action plans;
  - (iii) Promoting knowledge and information sharing** on policies, programs & best practices across the region; and
  - (iv) Building and collaborating on existing platforms** and networks for climate action.



# Part 3: Key Recommendations for Advancing Low Carbon Cities in Asia-Pacific

## 1. Accelerating Energy Transition for Cities

- Decarbonization of energy systems, energy efficiency in building stocks, compact & resilient cities, & a circular urban economy.
- Energy-efficient construction practices and the construction of buildings that are supplied with **renewable energy**.
- Transformational planning & programming, catalyzing climate innovation, mobilization of finance at scale, & sharing of knowledge.

Table 14. Assessment results for the use of renewable energy

Country	Jurisdiction	Ongoing or implemented projects related to renewable energy	Availability of renewable energy targets	Availability of GHG emissions/air pollution reduction targets	Use of renewable energy and related technologies			
					Buildings and infrastructure sectors	Transport sector	Industry sector	Energy generation sector
The Philippines	Bago	No	0	0	0*	0*	100	0*
	Borongan	No	12	35	0	0	3	9
	Cauayan	Yes	33	33	16	0	19	17
	Munoz	No	36	36	33	43	28	19
	Muntinlupa	Yes	29	86	34	33	52	22
	Ormoc	Yes	3	24	28	100	17	15
	Quezon	Yes	100	100	39	100	56	100
	Santa Rosa	Yes	30	100	26	50	6	0
	Vigan	No	44	59	28	25	4	15
	Zamboanga	Yes	41	41	30	58	6	22
Malaysia	Iskandar	Yes	51	70	17	62	55	50
	Penang	Yes	68	55	23	24	6	42
	Putrajaya	Yes	15	79	50	50	N/A**	50
	Subang Jaya	Yes	48	48	63	15	7	44
Indonesia	Balikpapan	Yes	43	54	15	50	33	0
	Jakarta	Yes	11	56	33	75	53	73
	Palembang	Yes	25	33	22	76	8	50
Lao PDR	Kaysone Phomvihane	N/A	28	27	0	0	0	22
	Pakse	No	33	33	0	0	0	0
Viet Nam	Da Nang	Yes	47	42	18	50	9	22

## Part 3: Key Recommendations for Advancing Low Carbon Cities in Asia-Pacific

### 2. Accelerating Energy Transition for Transport: Promote the acceleration of the transition to electric mobility in public transport & support the reduction of GHG emission



- Support the acceleration of the **transition to electric mobility**.
- Enhance regional cooperation & sharing experiences across public and private stakeholders.
- Strengthen capacity to formulate national policies & strategies to accelerate the transition.
- Enhance multi-sectoral collaboration among energy, transport, finance & other sectors.
- Develop a knowledge base on the electrical mobility ecosystem.

## Part 3: Key Recommendations for Advancing Low Carbon Cities in Asia-Pacific

**3. Decarbonizing Transport:** Accelerate the transition of the transport sector in the region to environmentally sustainable transport infrastructure, systems, and services



Regional Action  
Programme for  
Sustainable  
Transport  
Development

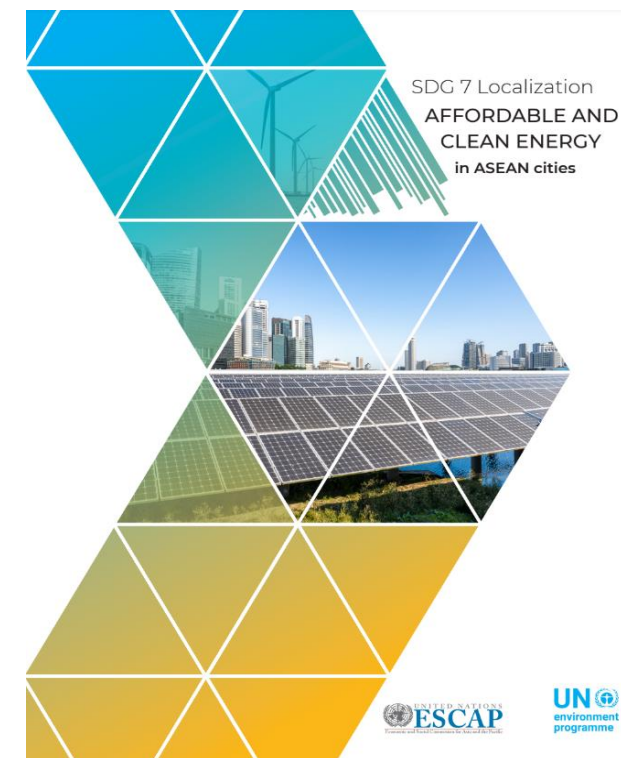
- Policy measures on Low-carbon transport
- Decarbonization of regional supply-chains
- Energy efficiency in transport
- Transition to electric mobility
- Integrated urban transport development
- Digitization of transport



## Part 3: Key Recommendations for Advancing Low Carbon Cities in Asia-Pacific

### 4. Localization of SDGs: With a focus on SDG 7 for the energy transition in cities to ensure access to affordable, reliable, sustainable and modern energy for all

- **Setting sustainable energy vision & targets;** developing sustainable energy policies; engaging stakeholders; unlocking sustainable energy finance; & implementing integrated energy solutions.
- **Energy system integration** is crucial to delivering SDG7 cost-effectively while increasing resilience & supporting whole-system decarbonization.
- **Sector integration is achievable at a local level.**



## Part 3: Key Recommendations for Advancing Low-Carbon Cities in Asia-Pacific

### 5. Accelerating Climate Finance in Cities

- Strengthening city capacity to mobilize and access climate finance.
- Directing private capital to **accelerate the green transition in key sectors which see high GHG emissions.**
- Developing policies that promote innovation and **make clean energy more affordable.**
- **Aligning national and city climate action plans,** cross-sectoral approaches, and mobilization of private-sector financing.

## Part 4: Conclusion

Cities in Asia-Pacific must raise ambitions and take significant strides to accelerate progress through **building a common vision**, establishing, and enhancing **partnerships**, catalyzing **knowledge sharing**, and **leveraging existing platforms and networks** to support low-carbon pathways, and scale up **nature-based innovative solutions** and **financing**.





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