



# Data Driven Carbon Neutral Disaster Resilient Cities

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# Project Name: Data Driven Carbon Neutral Disaster Resilient Cities

- ◆ APEC Fund Source: EELCER
- ◆ Proposing Economy: China
- ◆ Expected Start Date: Aug 2022
- ◆ Expected End Date: Dec 2023
- ◆ Total Project Funding: USD 155000
- ◆ Self Funded: USD 55000
- ◆ Amount being sought from APEC: USD 100000

# Project Summary

**This project aims at accelerating the development towards carbon neutrality by increasing the number of APEC cities or communities having the capacity to collect and use key SDG relevant data, apply holistic integrated planning methods and use a multi-stakeholder dialogue to become carbon neutral and energy inclusive.**

**The key SDG relevant data has been described in Chapter 4 of the [APEC Integrated Urban Planning Report](#) and is being tested and improved in pilot phase in project [EWG 04 2021S](#).**

**The present project will first train local planning officers of APEC cities or communities to collect the specified key data in cooperation with a local University. Training will then be completed by coaching each city or community to elaborate its local 2050/2060 vision and set its 2030 targets in cooperation with a group of key stakeholders, among them the energy poor populations. Training will be online except for a final meeting.**

## ■ Project Synopsis

### ◆ Relevance – Benefits to region

- Carbon neutrality has become a strategic objective of many APEC economies
- Higher than world average disaster exposure of APEC economies; pandemic; necessity to guarantee economic growth, all require science-led guidance, holistic approach and a deep outreach into society.
- Science-led guidance: APEC communities of any size collect data, assisted by their universities
- Outreach to society is guaranteed by multi-stakeholder dialogue involving at least the following stakeholders:
- (1) Universities, (2) green finance, (3) electricity industry, (4) TOD urban transport, (5) manufacturing, (6) building and real estate, (7) poorest quintile

## ■ Relevance – Eligibility and Fund Priorities

- ◆ Eligibility criteria
  - Top focus on APEC Energy Resiliency Principle 3E+S
  - Monitored indicators include GDP, electricity access, access to clean cooking fuels, fuel availability in disasters, disaster loss factors and continuity planning for electricity, gas, water & sanitation and many others (can be adapted to the final outcome of project EWG 07 2020A)
- ◆ Supports EELCER funding priorities: lowering carbon emissions, lowering energy intensity, increasing share of renewable energy

## ■ Relevance – Capacity Building

- ◆ 20 small and medium-sized cities are chosen from among the APEC travel eligible economies Chile, China, Indonesia, Malaysia, Mexico, Papua New Guinea, The Philippines, Peru, Russia, Thailand or Viet Nam
- ◆ 5 cities with model character are chosen from among the developed APEC economies

## ■ Objective

- ◆ The overall objective of this project is to accelerate the transition of APEC cities towards carbon neutrality, i.e., to contribute to the improvement of CO<sub>2</sub> emissions over BAU emission scenarios.

## ■ Alignment - APEC

- ◆ The project contributes towards implementing the following APEC Economic Leaders

### Declarations:

- 2010: Engaging to create low-carbon communities in the region
- 2011: Aspiring to reduce APEC aggregate energy intensity by 45% by 2035
- 2014: Aspiring to double the share of renewables in the APEC energy mix by 2030
- 2014: APEC Cooperation Initiative for Jointly Establishing an Asia-Pacific Urbanization Partnership
- 2015: APEC Disaster Risk Reduction Framework
- 2015: APEC Energy Ministers Declaration about energy resilience and the ability of infrastructure to withstand natural and man-made disasters



## ■ Alignment - Forum

- ◆ The project aligns with three strategic objectives of the EWG Strategic Plan 2019 – 2023:
  - Advance Clean Energy
  - Promote Energy Efficiency and Low-carbon communities
  - Enhance Energy Resiliency and Energy Access

## ■ Methodology – Workplan

Timeline	Project milestones, outputs and deliverables
May – Aug 2022	Project proposal stage, notification by BMC
Aug – Sept 2022	Write the Request for Proposal RFP for contractor
Sept 2022	Inform about the RPF during the APSEC Annual meeting
Nov 2022	Start inviting the selected cities, collect data, prepare for the training
Jan – Oct 2023	A total of 30 full days of training and coaching of stakeholder consultations on vision 2050/2060 and 2030 targets
May 2023	Preliminary results at Workshop on Sustainable Cities, EWG 65
Sept 2023	Preliminary report to the APSEC Annual meeting
Oct – Dec 2023	Compiling material, writing final report, final meeting in Tianjin

## ■ Beneficiaries

- ◆ Beneficiaries are the planning officers of the selected cities
  - Cities are selected on a voluntary basis, considering disaster vulnerability, lack of preparedness and environmental and socio-economic pressures
  - Cities designate planning officers to meet the set requirements: responsibility for integrated urban planning and disaster resilience planning
- ◆ Beneficiaries are also the stakeholders of the 7 stakeholder groups
  - The relationship between cities and stakeholder groups and their involvement in training is set out in a basic stakeholder participation document specifying the expected cooperation modalities
  - Each stakeholder group to set a minimum gender quota

## ■ Evaluation

- ◆ Increased number of APEC cities (focus on small and medium-sized cities)
  - Collecting and using SDG and disaster resilience data
  - Having carbon neutrality visions for 2050/2060
  
- ◆ Improved aggregate targets for participating APEC cities for
  - Emission mitigation compared to BAU
  - Energy intensity decrease by 2035 compared to 2005
  - Share of renewables in 2030 compared to 2010
  
- ◆ Increased aggregate number of APEC cities for
  - SDG and disaster resilience trained planning officers
  - Involved stakeholders in integrated urban planning
  - Female participation in urban planning process

## ■ Linkages

### ◆ Within APEC

- Sharing results with all EWG sub-committees as well as with other committees under the SOM Steering Committee on ECOTECH: TWG, Emergency Preparedness, PPSTI) and with FotC on Urbanization, ABAC Sustainable Development WG and TELWG

### ◆ Outside APEC

- Sharing results with UNDRR, UNESCAP, UNDO, UNIDO, IRENA, IEA, C2E2, UN-Habitat, GCF, World Bank, AIIB, ADB, GCoM, ICLEI, C40, Cities Alliance, WRI.

# THANK YOU FOR ANY COMMENTS

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