

A proposal to develop 2050 LCS scenario for Luang Prabang City

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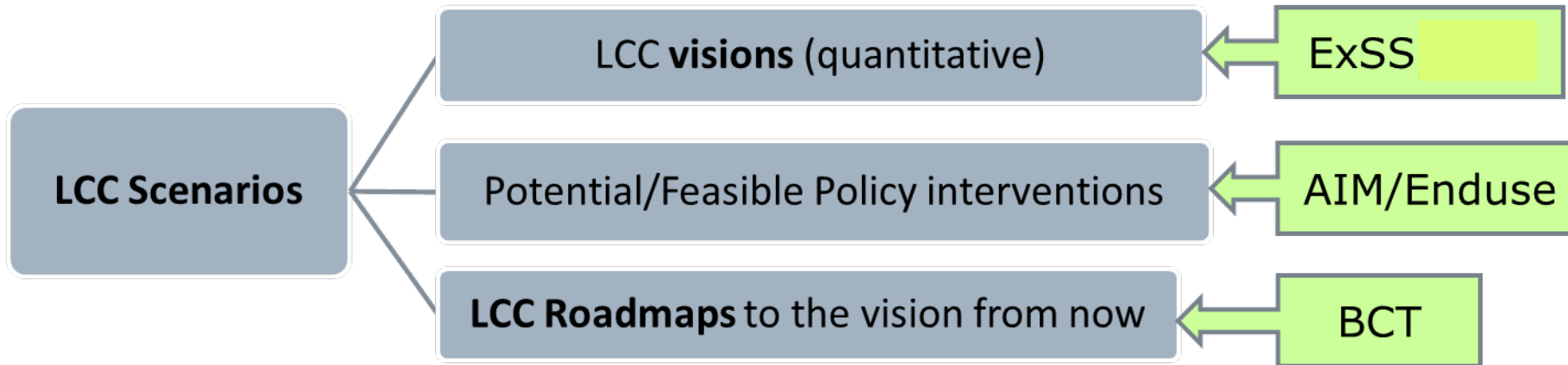
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Objectives

- To design the 2050 Luang Prabang Low Carbon City (LCC) scenario
- To support enhancing the capacity of Low Carbon policy development of related organizations by introducing simulation models (AIM) to give comprehensive and consistent pathways
- To support Luang Prabang's government to develop actions and plans to achieve the national mitigation target.

Design Low Carbon City (LCC)

Policy Scenario development procedure



Definition of terms:

- 1. LCC Scenario:** a plausible quantitative description of how the future LCC may develop based on a coherent and internally consistent set of assumptions on social, economic, and technology development and their relationships
- 2. LCC Vision:** the future image and also quantitative design of a city (group of cities) under not only GHG reduction targets but also social, economic and environmental targets
- 3. LCC Roadmap:** the pathway of when and how each policy should be implemented in order to achieve the vision

Framework of study

Base year: 2015 (need to be discussed)

Target years: 2050 (follow targets of some development plans)

Sectors: Energy, Transport, Industry, Waste, AFOLU

Target GHG: CO₂, CH₄, N₂O

Scenarios:

- 2050BaU (Business as usual)
- 2050LCC (Countermeasure)

Necessary information

- Base year data
 - Population and Household
 - Input Output table (or, regional economic accounting)
 - Transport demand (Passenger & Freight)
 - Building
 - Energy demand
 - Energy supply
 - etc.
- Reference for future scenario: 2050BaU and 2050LCC
 - Population projection
 - Economic projection / planning
 - Transport planning
 - Energy strategy
 - Potential of renewable energy
 - etc.

Next steps

Consultation workshop on model simulation in July 2023

Expectations and desires

- ◆ Bridge between policymakers and researcher
- ◆ Joining research on LCS development
- ◆ Encouraging young researchers to participate and learn on AIM training course
- ◆ Scenario for sectors and sub-nationals

Thank you!
