# Low Carbon Technology Assessment Facilitating Effectiveness of Viet Nam's Nationally Determined Contributions

Makoto Kato (Team leader)

Emiko Matsuda (Deputy team leader)

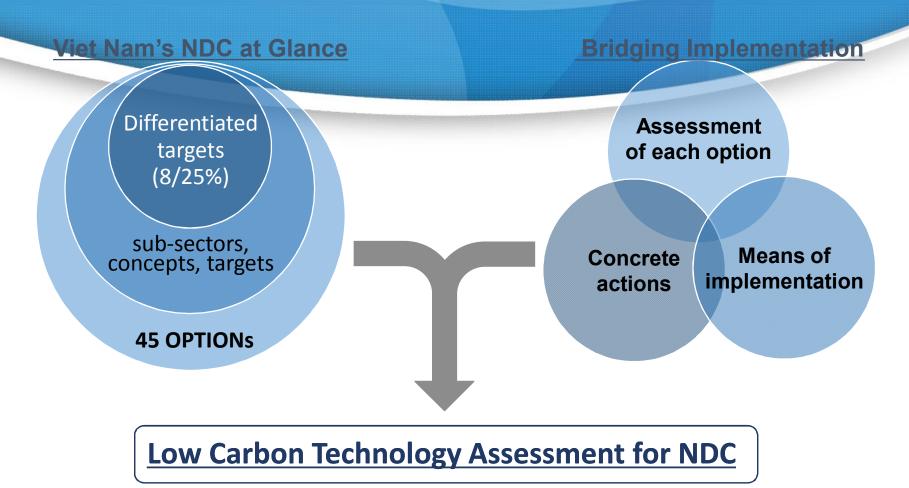
JICA SPI-NAMA/
Low Carbon Technology Assessment Team



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# , Objectives of SPI-NAMA LC Tech Assessment



### **Objectives**

- Identifying and Assessing Low Carbon Technologies applicable to each mitigation option of INDC & F-gas (HFC)
- 2. Explores concrete Opportunities for Technology Transfer / Deployment

# **NDC implementation toward Low Emission Development**

## **NDC**

A national climate change action strategy aiming to GHG emission reduction

### **Energy / Transport**

- 17 options are identified, 10 options from Energy efficiency and industry, 7 options from Power generation, 3 options from transport sector.
- It reflects National Target Programme on Energy Efficiency (2006), Law on Economical and Efficient Use of Energy (2010) as well as the Power Development Master Plan No. VII (2011).

### **Agriculture**

- " 11 out of 15 options are higher priority.
- " It mainly consist of crop production subsector related activities, followed by irrigation, livestock and fisheries subsectors.

### **LULUCF**

- 9 options including protection national/coastal forest, plantation of coastal forest, national forest regeneration are described.
- It reflects the goal that Viet Nam will reduce its GHG emissions by 8% by 2030 compared to the BAU scenario.

### Waste

- " 4 options are.
- Mitigation measures are identified in the policy document of the waste sector in Viet Nam, i.e. "Decision No.2149/QD-TTg".

### Added!

### F-gas

- F-gas sector is not included in the INDC, yet it has high potential for GHG emission reduction.
- There is no regulation is developed in Viet Nam.



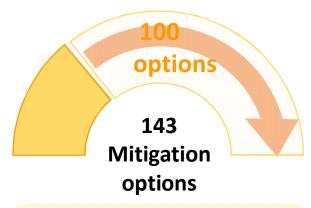
Additional mitigation options and technologies

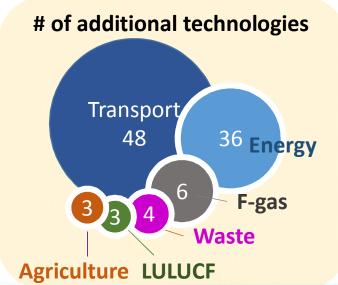


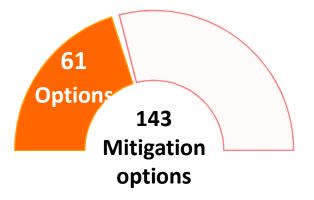


# Results and Findings from the Assessment work

- ✓ More than half of mitigation options are newly suggested.
- √ 61 options have relatively smaller barriers







Sector	Technologies with smaller barriers
Energy Efficiency	Solar Water Heater
Power Generation	Solar PV Power Plants
Transport	Passenger Transport Modal Shift from Private to Public
Agriculture	Introduction of Biochar
LULUCF	Protection of Natural Forest
Waste	Semi anaerobic landfill operation
F-gas	F-gas Destruction

# Contribution to implementation of NDC

Toward full implementation of NDCs, LMs are expected to take actions step-by-step.

- Ensure the effectiveness of legal system
- Provide sufficient Information to LMs when making decision and implementing
- Contribute to NDC implementation and its periodic review

\* Evaluation criteria will assure objectiveness of decision making for prioritization. Accelerated implementation

Low Emission
Development
in Viet Nam





Early actions

Several steps taken by:

- **✓** Removing barriers
- ✓ Promoting/harnessing coordination with stakeholders

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✓ Partially supported by International cooperation

Pre-2020 2020 2030 Further

# Thank you for your attention

