INCEPTION WORKSHOP FOR LOW CARBON TECHNOLOGY ASSESSMENT – ENABLING IMPLEMENTATION OF INDC/PARIS AGREEMENT IN VIETNAM" 27/9/2016, Hanoi

PREPARATION OF INDC'S IMPLEMENTATION ACCORDING TO PARIS AGREEMENT IN VIETNAM

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I. INDC of Vietnam **II. Preparation for the implementation** of INDC/NDC **III.Implemented TNA on reducing** green house gases emissions

I. INDC OF VIETNAM

Vietnam submitted INDC to UNFCCC on 30/9/2015

- Approach to develop INDC: combining top-down approach and the bottom-up approach
- INDC of Vietnam consists of 2 main parts: GHG mitigation and Climate Change adaptation
- GHG mitigation comparing to BAU :
 8% (unconditional); 25% (conditional)





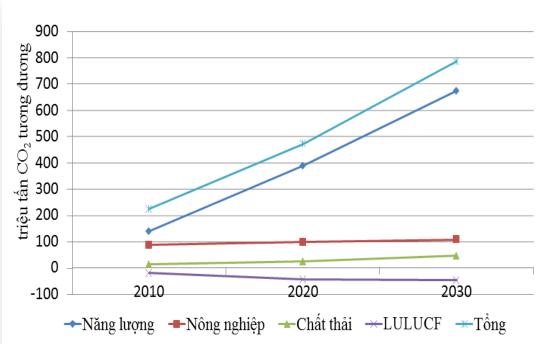
National BAU

	Unit: million tCO ₂ tđ			
	2010	2020	2030	
Energy	141,1	389,3	675,5	
Agriculture	88,3	100,8	109,3	
Waste	15,4	26,6	48,0	
LULUCF	-19,2	-42,5	-45,3	
Total	225,6	474,2	787,5	

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Source: BUR1, 2014

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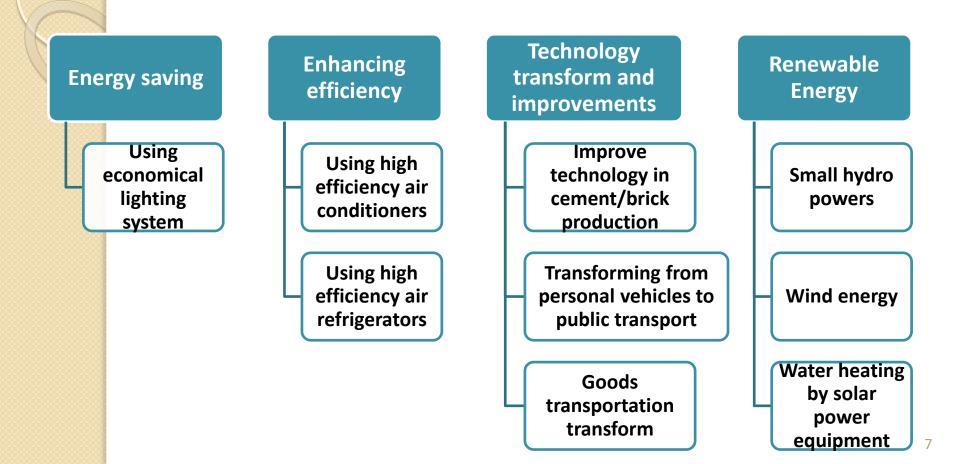




Mitigation/Absorbtion Measures

Sector	Measures		
	Self-develop	With support	
Energy	11	6	
Agriculture	6	9	
LULUCF	5	4	
Waste	3	4	
Total	45		

Energy (self-develop)



Energy (with support from international)

- 1. Development of biomass power
- 2. Development of wind energy
- with conditions
- 3. Using Ethanol in transportation
- 4. Development of Supercritical
- Thermal power technology
- 5. Development of biogas power
- 6. Development of solar energy



Agriculture (self-develop)

Development of biogas

Reuse straw organic as fertilizer

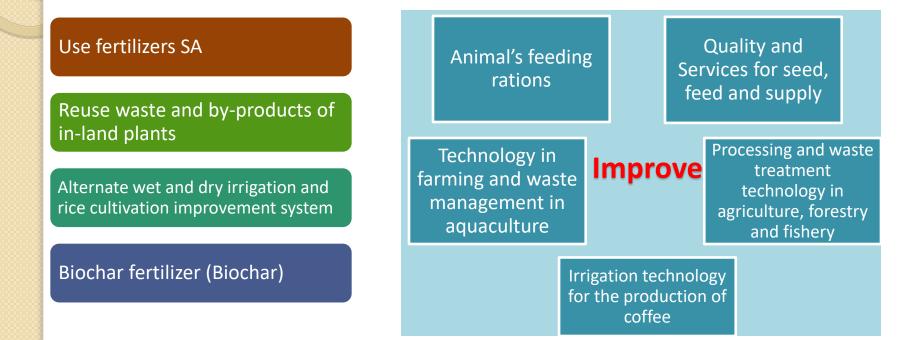
Alternating wet and dry irrigation and improved rice cultivation system

Biochar

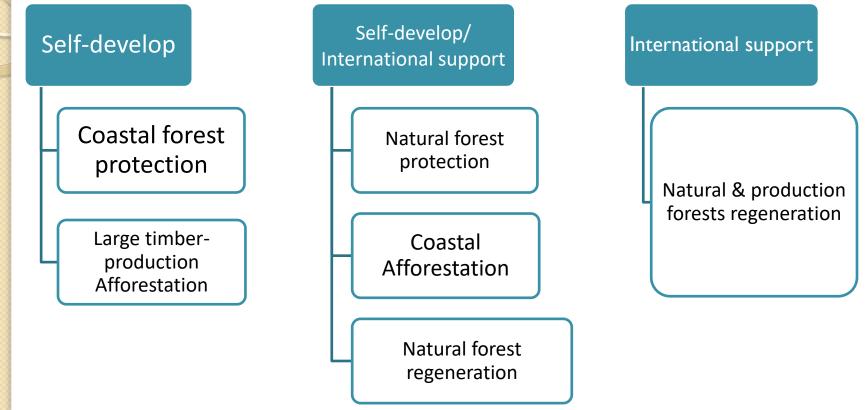
Integrated farming (ICM) for rice and upland crops



Agriculture (international support)



LULUCF



WASTE

- Self-develop / International Support:
 - Production of organic fertilizers
 - Recovery and use of waste landfill gas
 - Recycle of Paper
- International Support:
 - Anaerobic treatment of organic solid waste with methane recovery for power generation

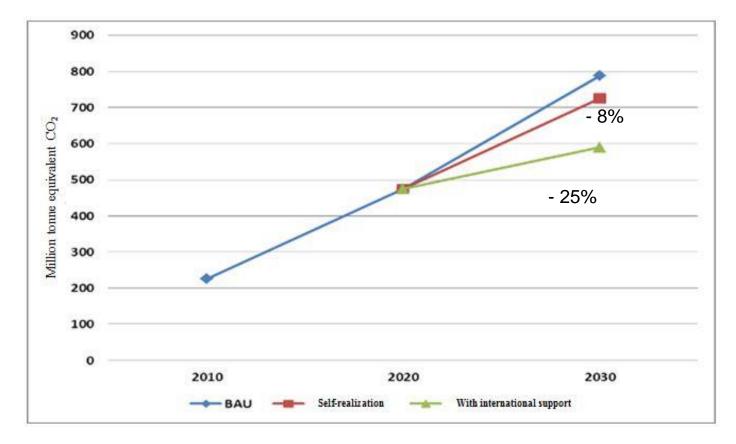




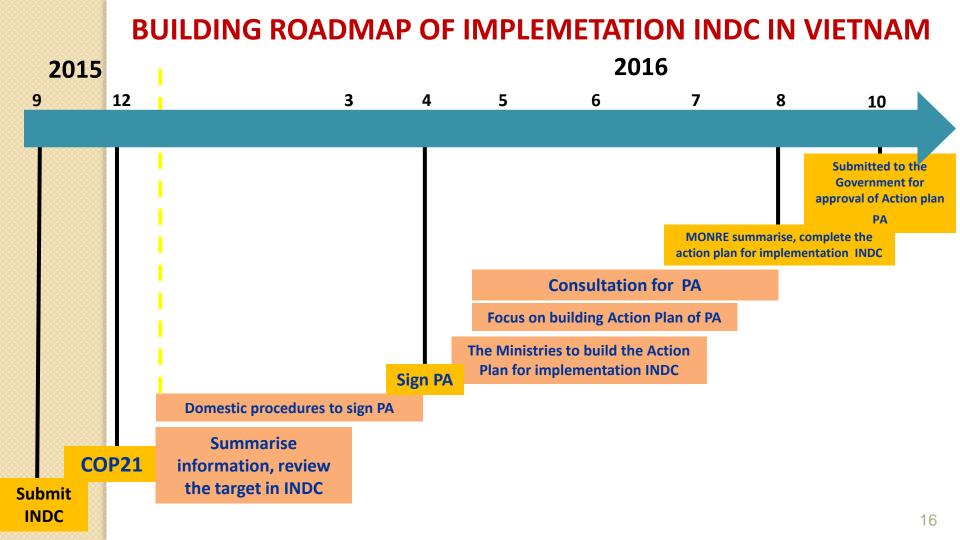
GHG mitigation targets in the Vietnam's INDC

	Self-Develop by nation		with inte	ernational support
Sector	Target (%)	GHG amount (Million tonne equivalent CO ₂)	Target (%)	GHG amount (Million tonne equivalent CO ₂)
Energy	4,4	29,46	9,8	65,93
Algriculture	5,8	6,36	41,8	45,78
Waste	8,6	4,16	42,1	20,23
LULUCF*	50,05	22,67	145,7	66,0
Total	8%	62,65	25%	197,94

Scenario of BAU and mitigation with objectives 8% and 25%



2. PREPARATION IMPLEMENTATION OF INDC/NDC



Implementation plan on national mitigation activities prioritized to 2020

- 1. To review the current provisions on mitigation of GHG emissions and Develop a Decree regulating roadmap and method for Vietnam to participate in mitigation of global GHG emissions;
- 2. To perform periodical GHG inventory for the base year, 2013, 2014, 2016, 2018 and evaluate Vietnam's efforts in mitigating GHG emissions to update NDC and assess join global efforts in 2018;

3. To develop, supplement, modify policies to encourage the development of solar energy, wind energy; develop and implement action plans to develop renewable energy in 2030, with a vision towards 2050;

Implementation plan on national mitigation activities prioritized to 2020

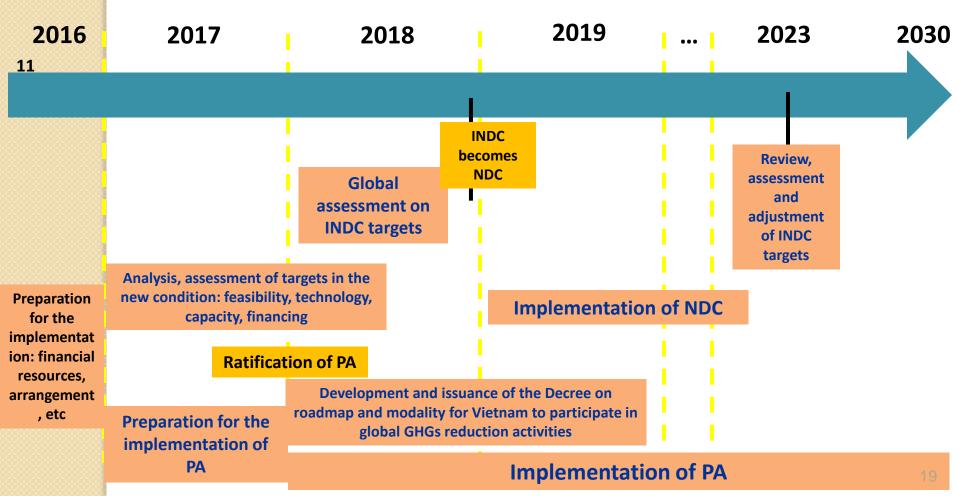
4. Develop and implement the proposed reduction of GHG emissions and green growth in line with the national conditions for the industrial sector, transportation, construction, agriculture and rural development;

5. Developing carbon market in the country and other cooperation mechanisms to mitigate GHG emissions in accordance with Article 6 of the Paris Agreement. Pilot implementation in the areas of potential;

6. Develop national, sectorial MRV system for mitigation activities;

7. Perform other activities on GHG emissions reduction of ministries to implement INDC / NDC. 18

TENTATIVE ROADMAP FOR THE IMPLEMENTATION OF PA IN VIETNAM



National implementation plan on mitigation activities for the priority period 2021-2030

1. To review, adjust and supplement policies, perfecting institution related to GHGs emissions reduction;

2. To assess global efforts to GHGs emissions reduction (2023, 2028).

3. To implement the duties of the GHGs emission reduction in Industry and Trade, Transportation, Agriculture and Rural Development, and Construction sectors to implement the NDC based on global effort assessment (the year 2024, 2029)

4. To implement GHGs inventory for developing nationally periodic reports under the provisions of the Paris Agreement (NCS, BURs)

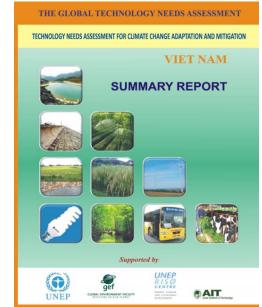
3. IMPLEMENTED TNA FOR GHGs EMISSIONS REDUCTION

Project "Global technology needs assessment"

- Implementation period: 2010-2012
- Agency in charge: MONRE
- Project owner: DMHCC, MONRE
- Donor: UNEP

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Participating countries: 15 countries
(Africa: 05 countries; Asia & Europe: 06 countries, Latin America & Caribbean: 04 countries)



Prioritization of GHGs emission mitigation technologies

No.	Sector/ Technology	Availability/ Scale	
1	Energy sector		
	- Wind power technology	Short-term/ Medium	
	- Compact fluorescent lamps	Short-term/ Small and Medium	
	- Heat and power cogeneration	Short to Medium term/ Medium	
	- Bus rapid transit	Medium to Long term/ Large	
2	Agricultural sector		
	- Biogas	Short-term/ Small and Medium	
	- Nutrition enhancement	Short to Medium term/ Small	
	- Wet and dry irrigation	Medium term/ Medium	
3	LULUCF		
	- Sustainable forest management	Short-term/ Large	
	- Afforestation and reforestation	Short-term/ Large	
0 8 8	- Rehabilitation of mangrove	Short-term/ Large	



Some NAMA's proposals in Vietnam

- 1. Biogas electricity production in the pig farms with medium and large scale
- 2. Support program to develop wind power in Vietnam
- 3. Renewable Energy Development Facility in Vietnam
- 4. Low emission public transport
- 5. Support of mitigation activities in cement sector
- 6. Waste-to-resources in cities
- 7. Promoting energy efficiency in buildings



Minister of Natural Resources and Environment, Tran Hong Ha signs the Paris Agreement, 22 April 2016, New York, USA

Thank you!