

Potential of low carbon development in Vietnam

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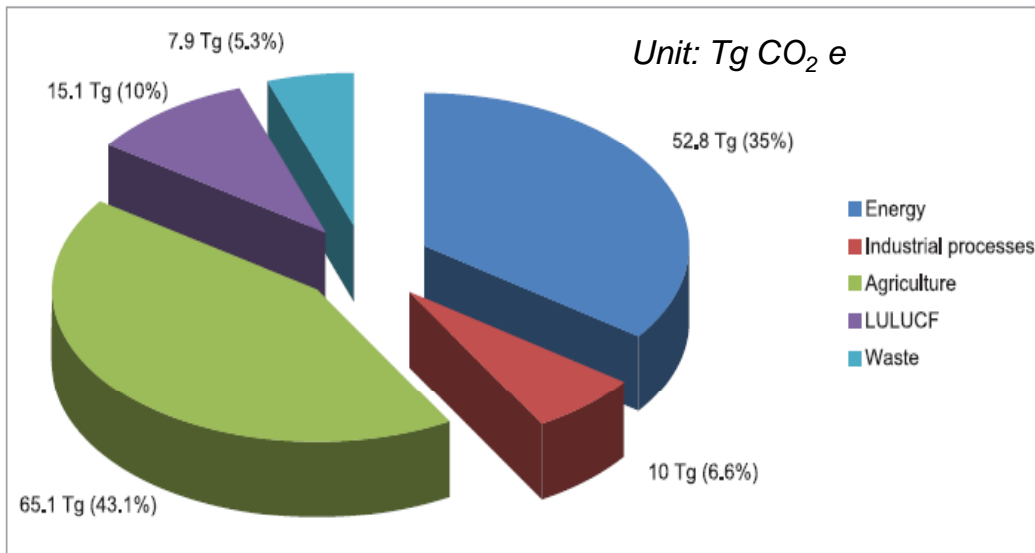
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- GHG inventory report for year 2000
- Projection of GHG emission up to 2030
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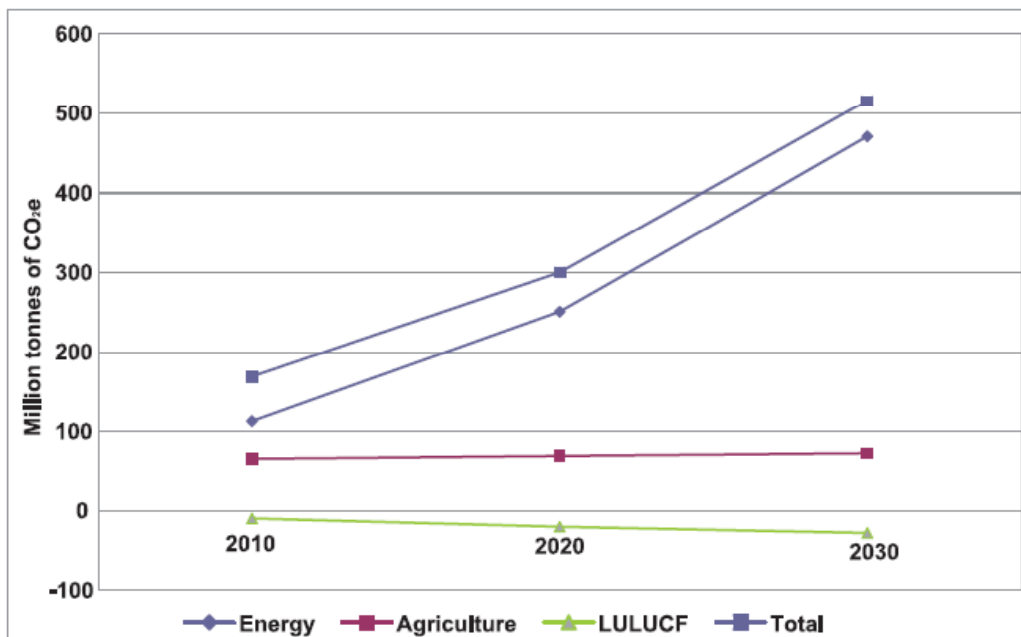
National GHG Inventory for 2000 under SNC

National greenhouse gas inventory for 2000 was conducted in accordance with the Revised Guidelines of IPCC for energy, industrial processes, agriculture, LULUCF, and waste sectors, with respect to the most important greenhouse gases: CO₂, CH₄ and N₂O.



Total GHG emissions in 2000 amounted to 150.9 Tg CO₂ equivalent.

Projections of GHG emissions from main sources for 2010, 2020 and 2030



Emissions from energy, agriculture and LULUCF sectors are projected to be 169.2, 300.4, and 515.8 Tg CO₂e in 2010, 2020, and 2030, respectively. Energy sector accounts for 91.3% of projected total emissions for 2030.

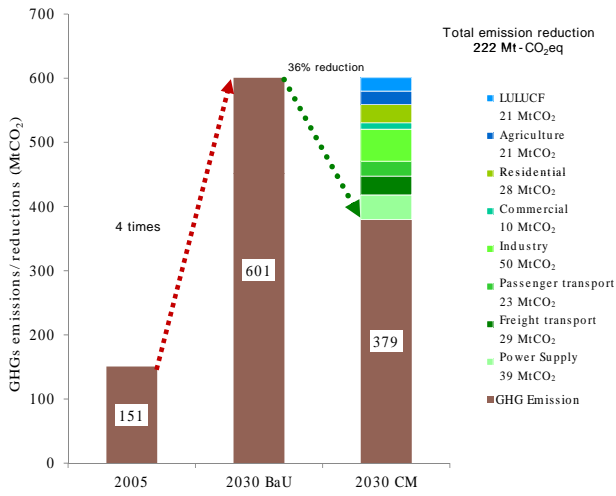
VGGS targets on GHG emissions

- Targets for 2020:
 - GDP per capita at least doubled compared to 2010
 - Reduced energy consumption per GDP by 2.5 to 3% per year
 - Reduce intensity of greenhouse gas emissions by 8-10%
- Targets for 2030:
 - Reduce total greenhouse gas emissions at least 2-3% per year.
- 2050: Green Economic Development is mainstreamed

Main Projects for Climate Change Mitigation Issues

	GHG Inventory Preparation	Future forecasting on GHG emissions/removals	Development of Low Carbon Development Strategy (LCDS)	Development of National Appropriate Mitigation Action (NAMA)
General (e.g. National System, data collection)	JICA GHG Inventory Project (CP: DMHCC, MONRE)			
Energy	ADB Project (CP: MOIT, MOT, and some cities)			
Industrial Processes		WB/DFID Project (CP: MPI)		
Agriculture	UNFCCC/USAID/US EPA SEA Project (CP: VNFOREST, MARD) (a part of LEDS project)	US Government Low Emission Development (LEDS) Project (CP: USAID, MARD)		
LULUCF		JICA Special Studies and Agencies (Coordinator: ?)		
Waste				MONRE (IMHEN)

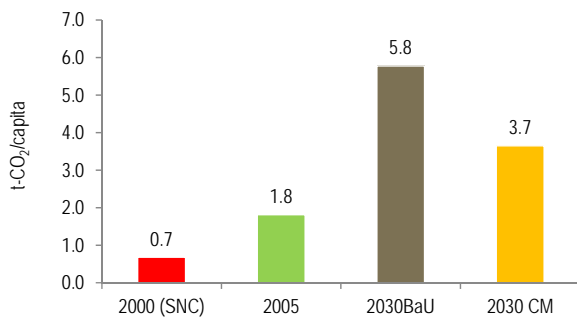
GHG emissions/mitigations in Vietnam in 2030



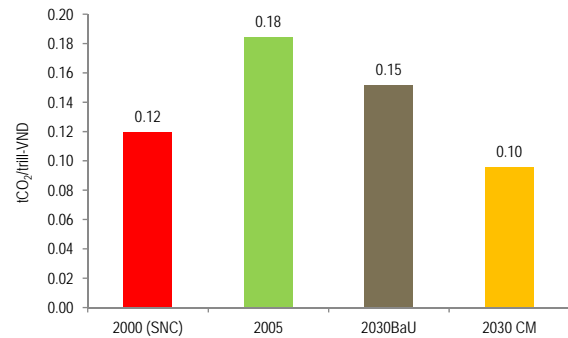
Sector	GHG emissions (MtCO ₂ eq)		GHG emissions reduction (MtCO ₂ eq)
	2030BaU	2030CM	
AFOLU sectors	79	37	42
Agriculture	85	64	21
LULUCF	-6	-27	21
Energy sectors	522	342	180
Residential sector	110	68	42
Commercial sector	41	28	13
Insudtry	257	185	71
Transport	114	61	53
Total	601	379	222

Projected per capita GHG emissions and emission intensity

Per capita GHG emissions

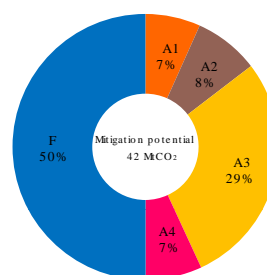


Emission intensity

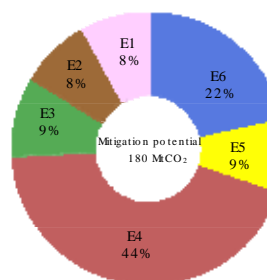


Actions towards low carbon society in Vietnam

Actions towards LCS in Vietnam in 2030	GHG emissions mitigations (MtCO ₂)
AFOLU sectors	42
Action A1 Livestock Manure Management	3
Action A2 Livestock Enteric Fermentation	3
Action A3 Rice Cultivation Management	12
Action A4 Soil Management	3
Action F Forest and Land Use Management	21
Energy sectors	180
Action E1 Green Building	14
Action E2 Convenient Transport	15
Action E3 Energy Saving Behavior	17
Action E4 Energy Efficiency Improvement	79
Action E5 Fuel Shift in Industry	16
Action E6 Smart Power Plants	39
Total	222



Mitigation potential of AFOLU sector



Mitigation potential in Energy sector

Limitations and Constraints

National GHG inventory

- Data availability reliability, data collection process
- Data collection system for GHG inventory
- Technical experts in GHG inventory at Ministry and Sector level
- Research, assessment and verification of country-specific emission factors

LCS research activities

- Applicable Models
- Data availability and sharing
- Capacity of researchers
- Deeper involvement of university researchers
- Coordination amongst on-going research projects

Requests for the LoCARNet

- Continue to share information with other international agencies/organizations on member activities
- Support capacity building
- Publication of on-going projects outputs by LoCARNet members