



Experience on the Implementation of T-VER

How T-VER encourages private sector to contribute to meet NDC target in Thailand?



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(Public Organization)

Content

1. Overview



Thailand Policy on
Greenhouse Gas Reduction

2. Introduction

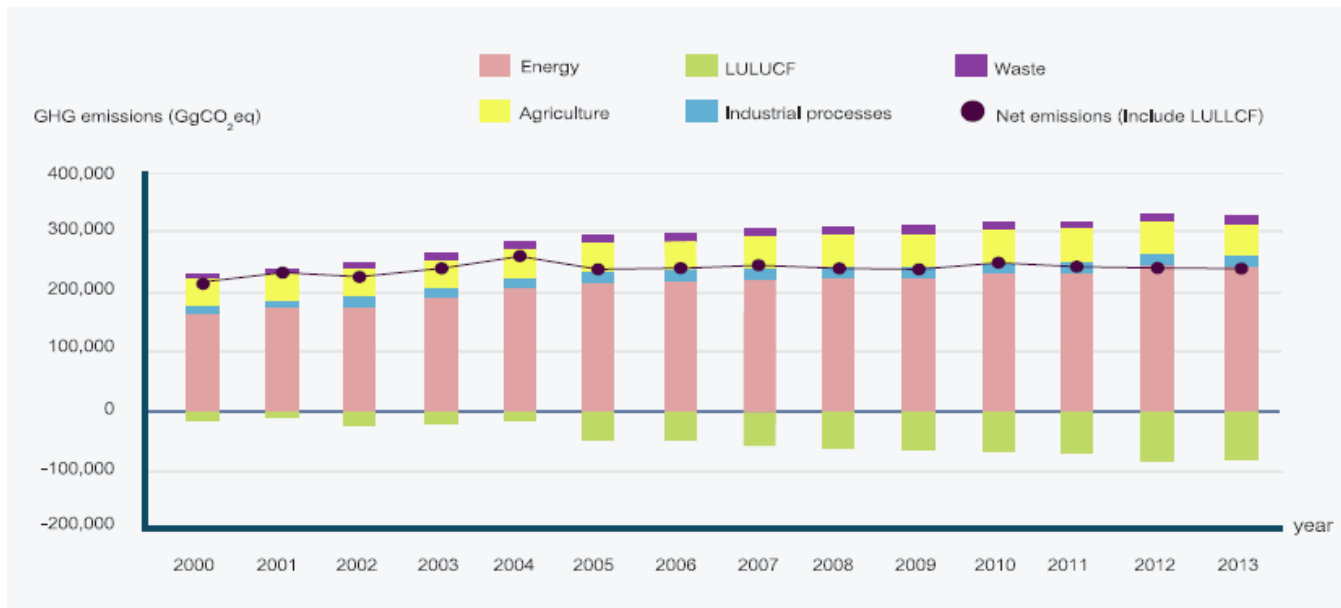


Thailand Voluntary Emission
Reduction Program:
T-VER

3. Main Topic

**Experience on the
implementation of T-VER**

How T-VER encourages
private sector to contribute
to meet NDC target
in Thailand?

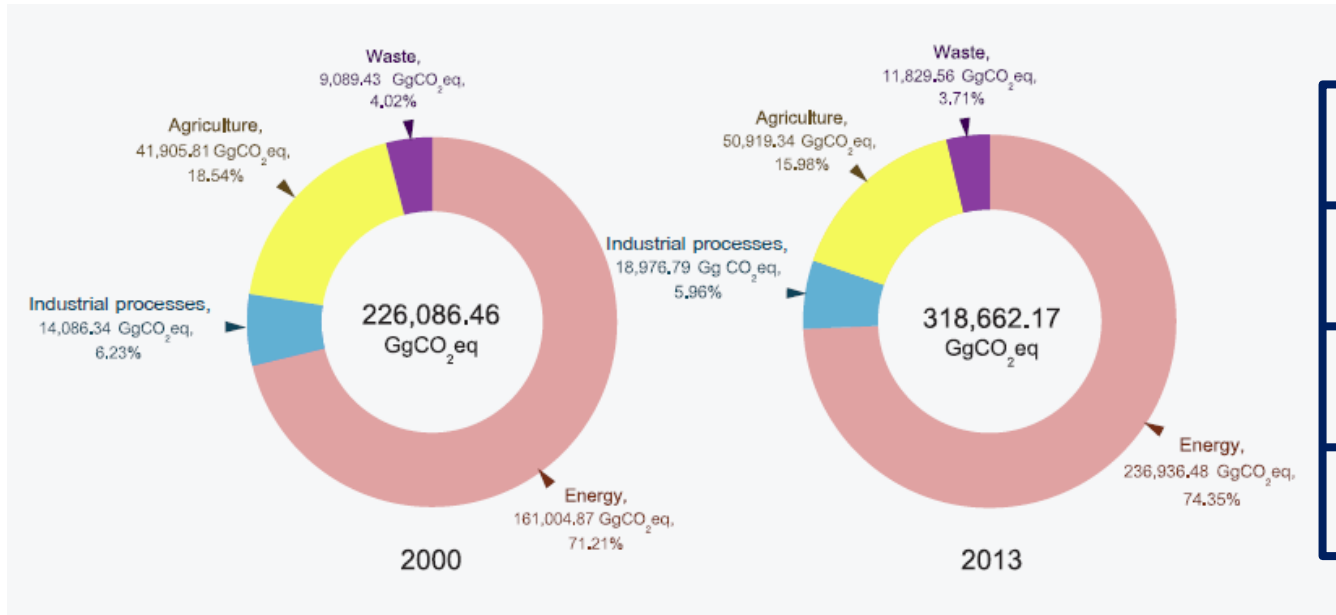


Total GHG Emissions = 318.662 MtCO₂e

Net Emissions = 232.56 MtCO₂e

Trends of GHG Emissions/Removals, 2000-2013

Source: Second Biennial Update Report of Thailand (2017)



Energy	74.35%
Agriculture	15.98%
IPPU	5.96%
Waste	3.71%

Total GHG Emissions by Sector, 2000-2013

Source: Second Biennial Update Report of Thailand (2017)

Pre 2020

“Thailand will endeavor, on a voluntary basis, to reduce its GHG emissions in the range of 7 to 20 percent below the Business as Usual (BAU) in energy and transportation sectors in 2020, subject to the level of international support provided [...]”

Coverage:

RE

Bio-fuels

EE

Transport

Post 2020

“Thailand intends to reduce its greenhouse gas emissions by 20 percent from the projected business-as-usual (BAU) level by 2030. The level of contribution could increase up to 25 percent, subject to adequate and enhanced [support] through a balanced and ambitious global agreement [...]”

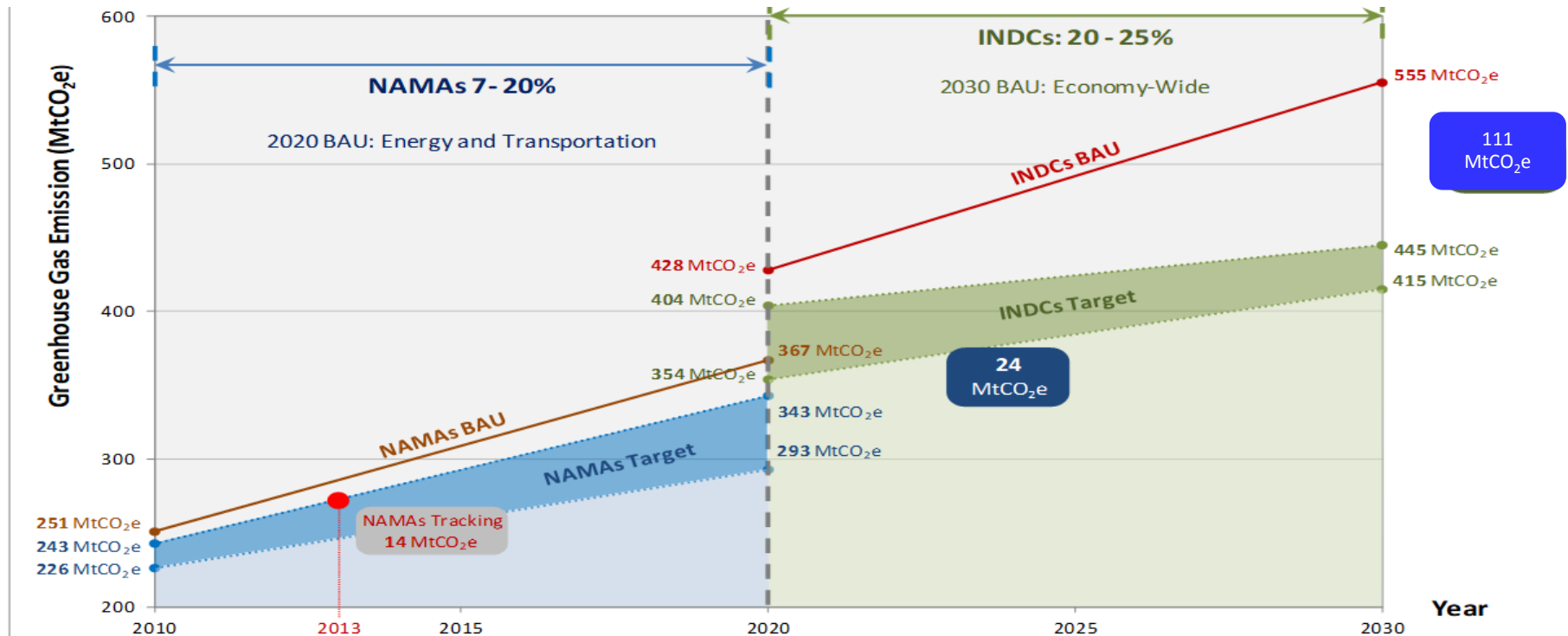
Coverage:

Economy-wide

Inclusion of LULUCF will be decided later

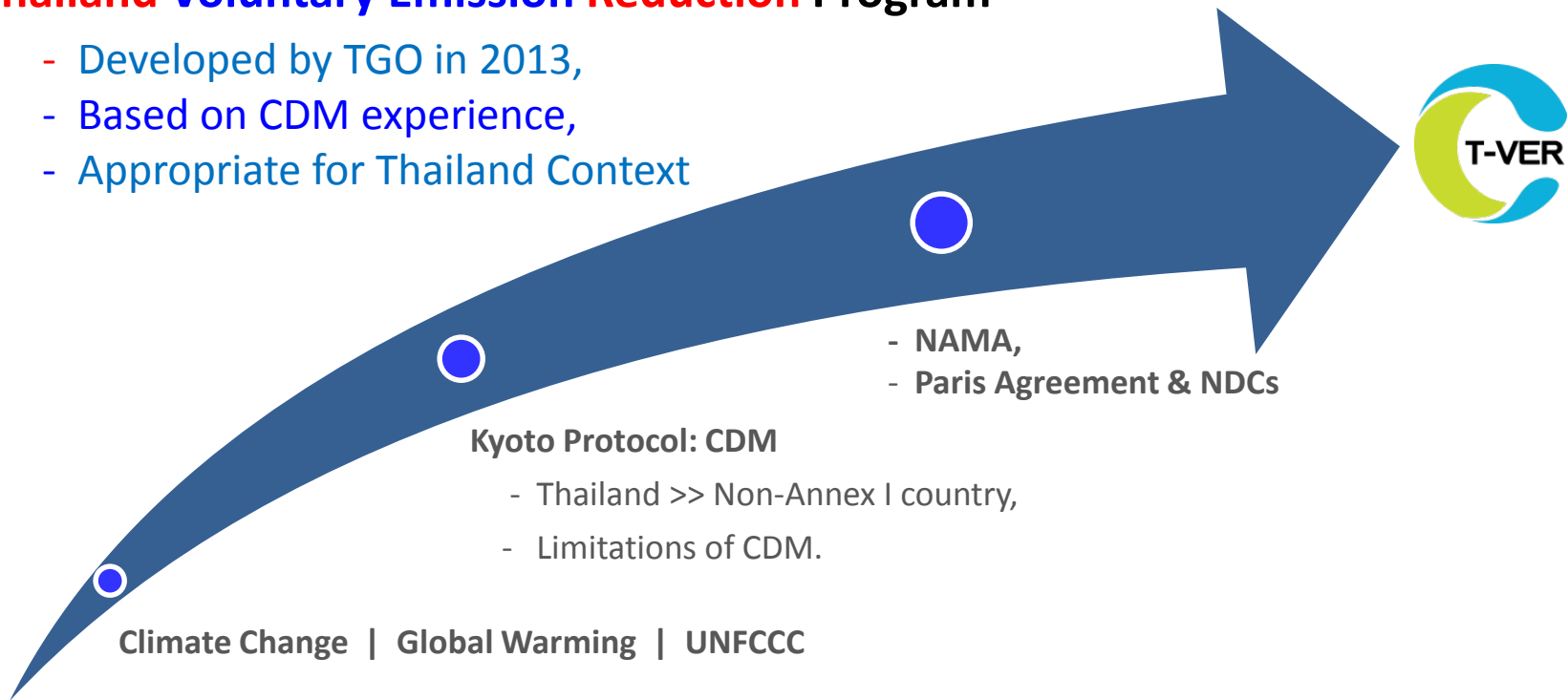
Overview

Thailand NAMAs and NDCs Target



Thailand Voluntary Emission Reduction Program

- Developed by TGO in 2013,
- Based on CDM experience,
- Appropriate for Thailand Context





General Information

- A domestic GHG mitigation mechanism,
- Aims to promote cooperation of all relevant sectors in GHG reduction,
- TGO has responsibility to define criteria, project development process, methodology, registration and credit issuance.



Objectives

1. To promote participation for domestic voluntary GHG mitigation in Thailand,
2. To promote domestic carbon market for carbon credit trading in the future,
3. To prepare readiness of all sectors in cope with GHG mitigation commitment.



Benefits

1. Reduce GHG emission as a major cause of climate change and global warming,
2. Increase carbon dioxide absorption and storage,
3. Increase revenues by carbon credit trading,
4. Promote a good corporate image of the firms.



T-VER's Environmental Integrity



International
Organization for
Standardization

1. T-VER's framework is in correspondence with the ISO 14064-2

ISO 14064-2 specifies principles and requirements and provides guidance at the project level for quantification, monitoring and reporting of activities intended to cause greenhouse gas (GHG) emission reductions or removal enhancements.



International
Organization for
Standardization

2. Monitoring and Verification framework of GHG emission is also in correspondence with the ISO 14064-3

ISO 14064-3 specifies principles and requirements and provides guidance for those conducting or managing the validation and/or verification of greenhouse gas (GHG) assertions.



3. Validation and Verification Body (VVB) are registered by TGO

T-VER Project Development Process



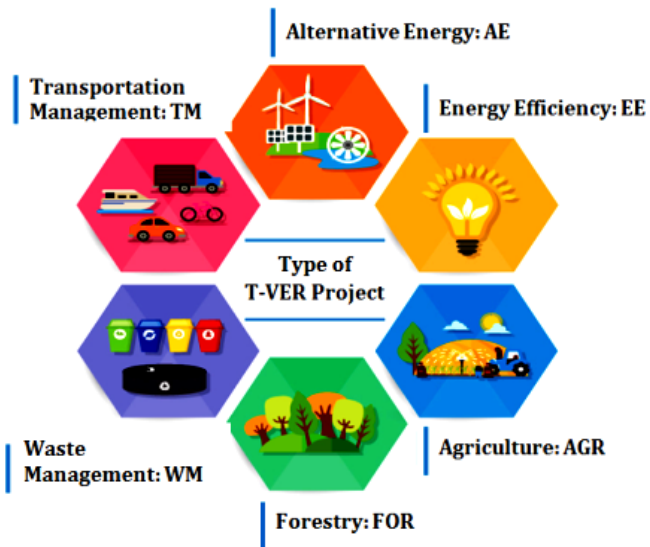
General Conditions

- ❖ T-VER project shall be a **voluntary project** which has been operated not exceed 3 years before project registration. In case project is in preparation phase, the project shall be started within 2 year after project registration,
- ❖ T-VER project shall be **transparent** and be able to inspect. Project developer has responsibility to provide all related documents for validation and verification.
- ❖ T-VER project shall have **additionality demonstration**.

5 Criteria for T-VER Project Registration

1. Project activities are **not contrary to laws**,
2. Project activities correspond with **T-VER regulations defined by TGO**,
3. Project activities are additional options beyond to business as usual of firm,
4. Project methodology corresponds with **T-VER methodology**, and
5. **Monitoring and reporting of GHG reduction** correspond with T-VER methodology.

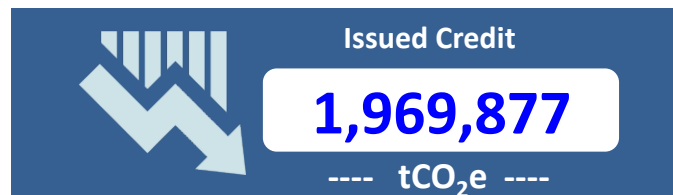
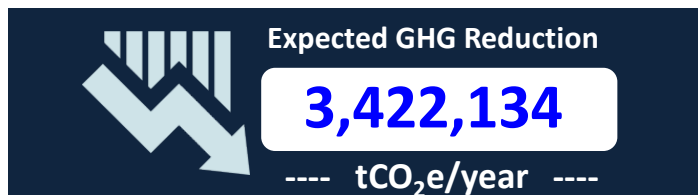
T-VER Methodology



AE	7 Meths
EE	15 Meths
WM	8 Meths
AGR	2 Meths
FOR	3 Meths
OTH	2 Meths
Total 37 Meths	

T-VER Project Statistics

FY	Project Registration		Project Issuance	
	Number of Project	Expected GHG Reduction (tCO ₂ e/y)	Number of Project	Issued Credit (tCO ₂ e)
2014	9	114,237	0	0
2015	11	590,175	7	339,537
2016	18	378,953	14	249,610
2017	41	1,035,672	22	493,207
2018	50	1,303,097	27	887,523
Total	129	3,422,134	70	1,969,877



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Thailand's NDC



Thailand recognizes the important role of market-based mechanisms to enhance the cost effectiveness of mitigation actions, and therefore will continue to explore the potentials of bilateral, regional and international market mechanisms as well as various approaches.

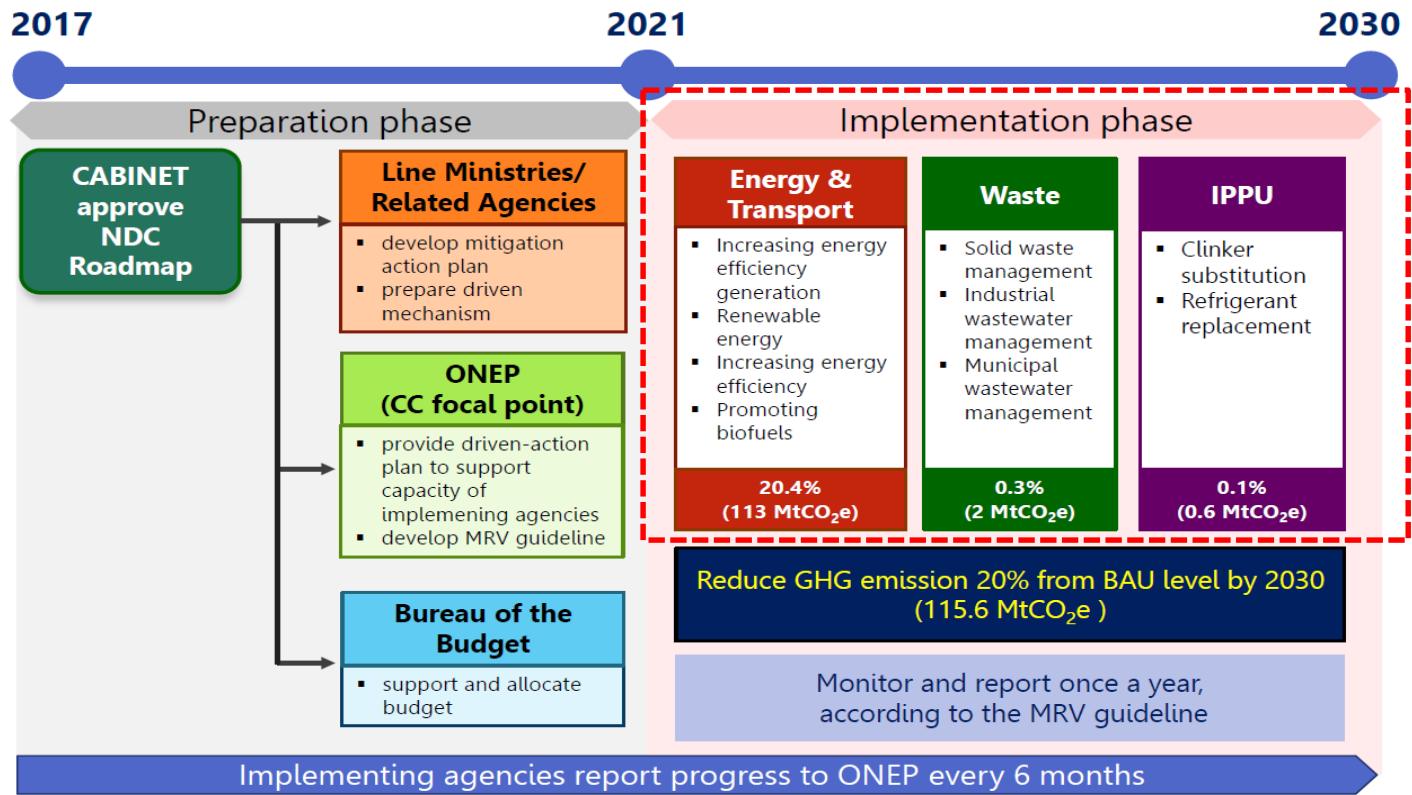


The time frame of NDC implementation is **2021-2030**.



Coverage: **Economy-wide** (Inclusion of land use, land-use change and forestry will be decided later)

Thailand NDC Roadmap



Source: ONEP, 2017

Thailand NDC Roadmap & T-VER

Thailand NDC Roadmap



Energy & Transport

- Increasing energy efficiency
- Increasing energy generation
- Renewable energy
- Increasing energy efficiency
- Promoting biofuels

20.4%
(113 MtCO₂e)

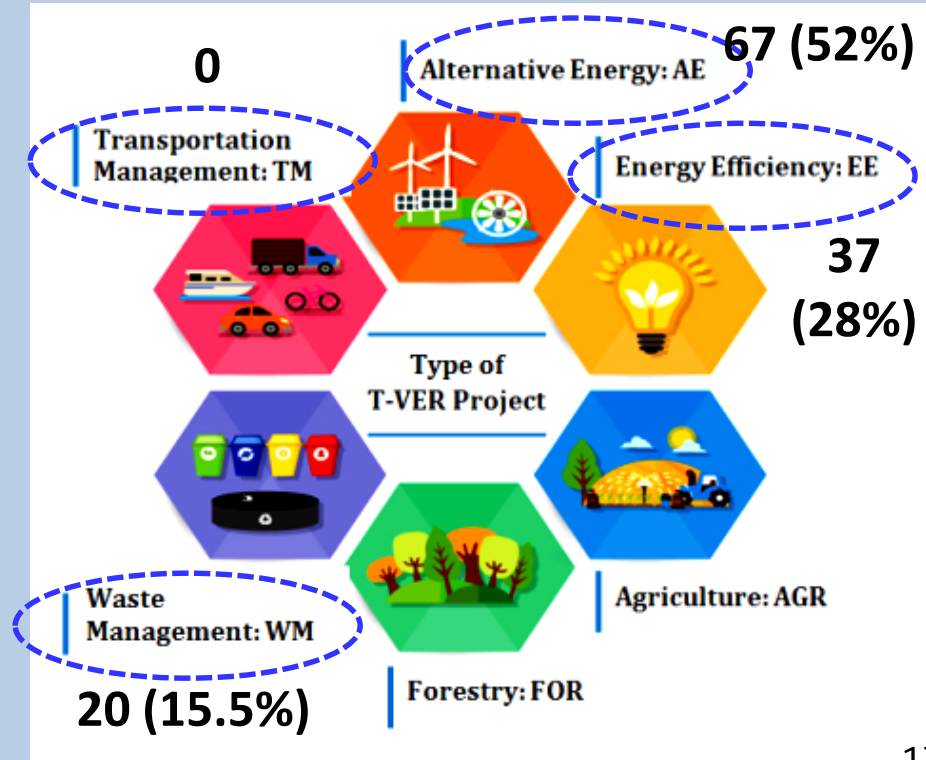


Waste

- Solid waste management
- Industrial wastewater management
- Municipal wastewater management

0.3%
(2 MtCO₂e)

T-VER Programme (129 Projects)



FOR MORE INFORMATION

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