

The 2nd Seminar on
“Sharing Experiences on Legal Development and Implementation of Emissions Trading Scheme (ETS)”
10-11 June 2019

ETS Development in Thailand

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ONE STOP SERVICE MITIGATION



Tracking

NAMAs/NDCs



Capacity

Development

- Public sector
- Private sector
- Local government



Public Relations

- Education sector
- Mass Communication



Project-based



- Provide CDM LoA and Certification for Project-based Mechanisms



Carbon Market and Carbon Labelling Scheme



Information Center

GHG Information Center (Sector-based and Area-based)

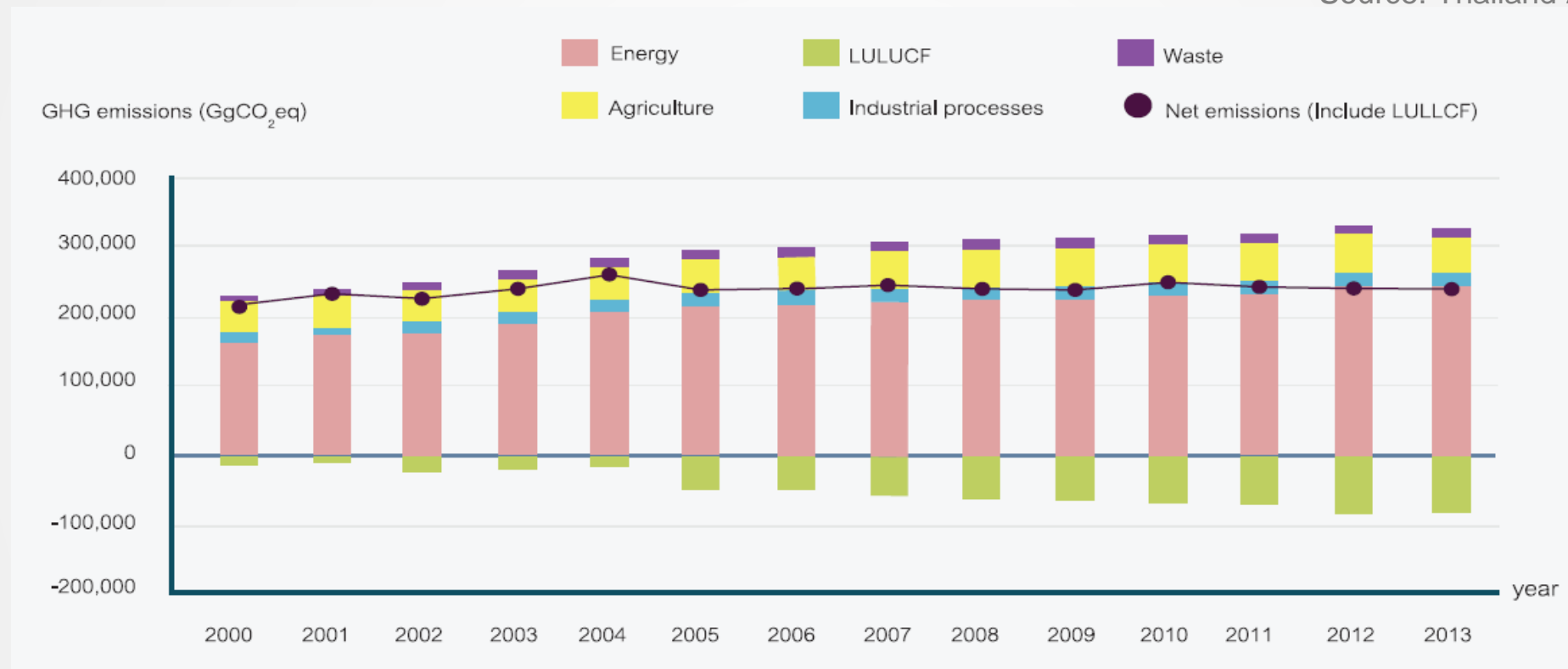


Trends of GHG emissions/removals 2000-2013

Total GHG emissions (2013) = 318.662 MtCO₂e

Net GHG emissions (2013) = 232.56 MtCO₂e

Source: Thailand 2nd BUR, Dec 2017.

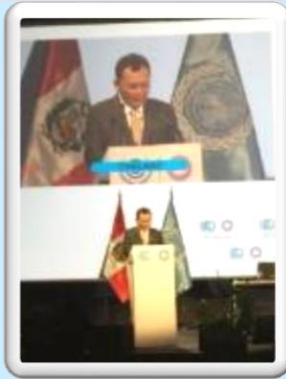


□ Total GHG emissions (exclude LULUCF) from 2000 to 2013 has been increased from 226.1 M tCO₂e to 318.7 M tCO₂e.

□ With the inclusion of the LULUCF sector, the net emission in 2013 increased by 8.63% when compared with the net emission in 2000.

Thailand Mitigation Targets

❖ Nationally Appropriated Mitigation Actions (NAMAs) – 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 [...]”

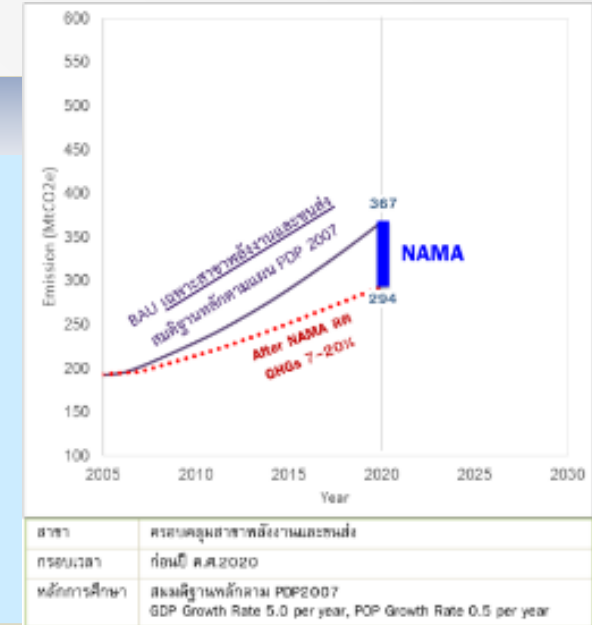
Coverage:

RE

EE

Bio-fuels

Transport



❖ Nationally Determined Contribution (INDC) – 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 [...]”

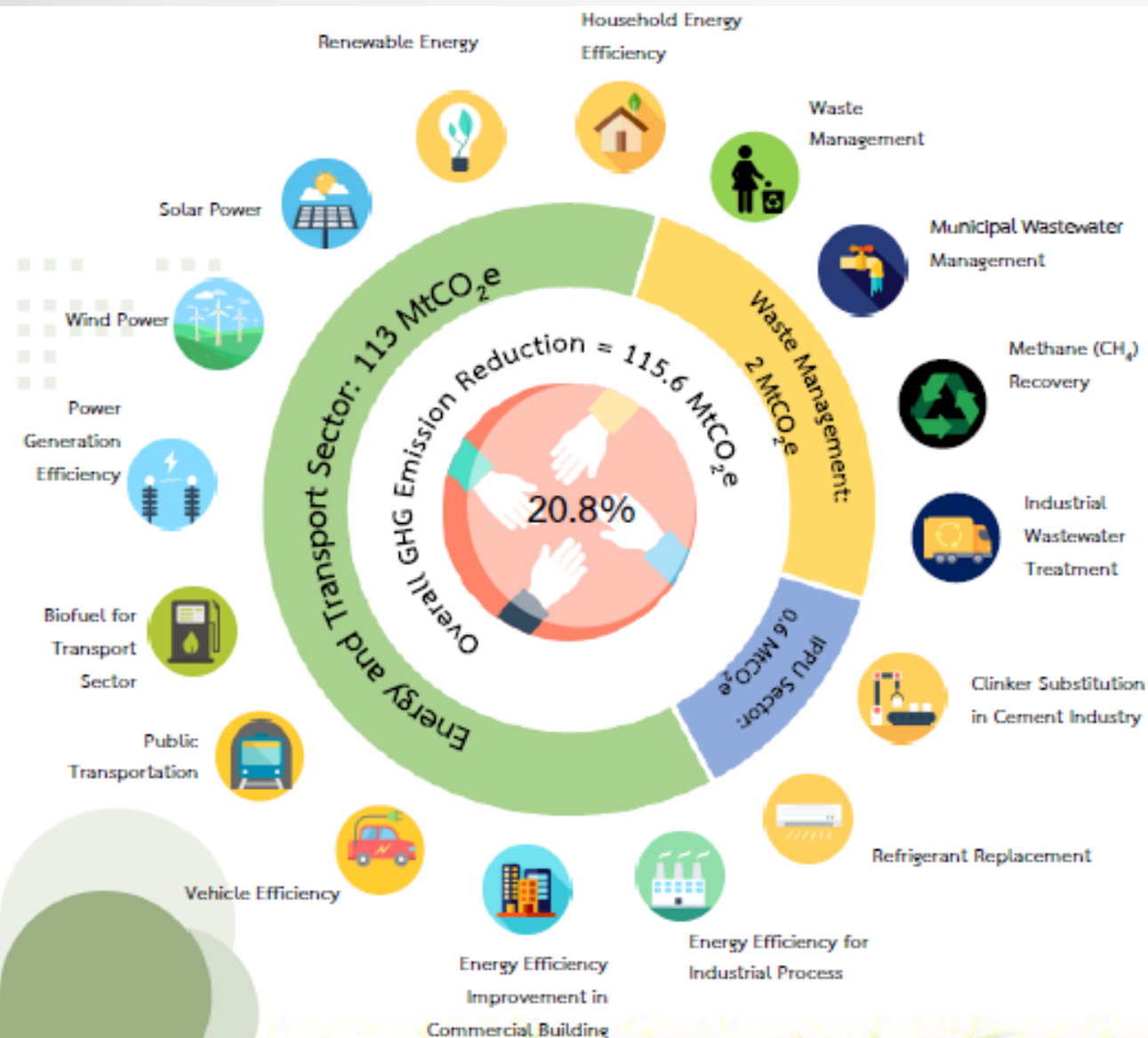
Coverage:

Economy-wide

Inclusion of LULUCF will be decided later



Thailand NDC Roadmap (2021-2030)



Primary plans supporting implementation of NDC Roadmap

- Energy Efficiency Plan 2015-2036
- Alternative Energy Development Plan 2015-2036
- Power Development Plan 2015-2036
- Smart Grid Development Plan 2015-2036
- Environmentally Sustainable Transport System Plan 2013-2030
- National Industrial Development Master Plan 2012-2031
- Environmental Quality Management Plan 2017-2021
- Implementation under the Montreal Protocol

Voluntary Carbon Market in Thailand

Voluntary Emission Reduction Projects (VER)

- **Type:** Project-based
- Eligibility:** Emission Reduction Projects, Pre-registered CDM
- MRV:** International standards (VCS, GS, etc.)
- Carbon Credit:** VERs
- Registry:** Standard Owners
- Buyers:** International buyers
- Status:** Existing

Thailand Voluntary Emission Reduction Program (T-VER)

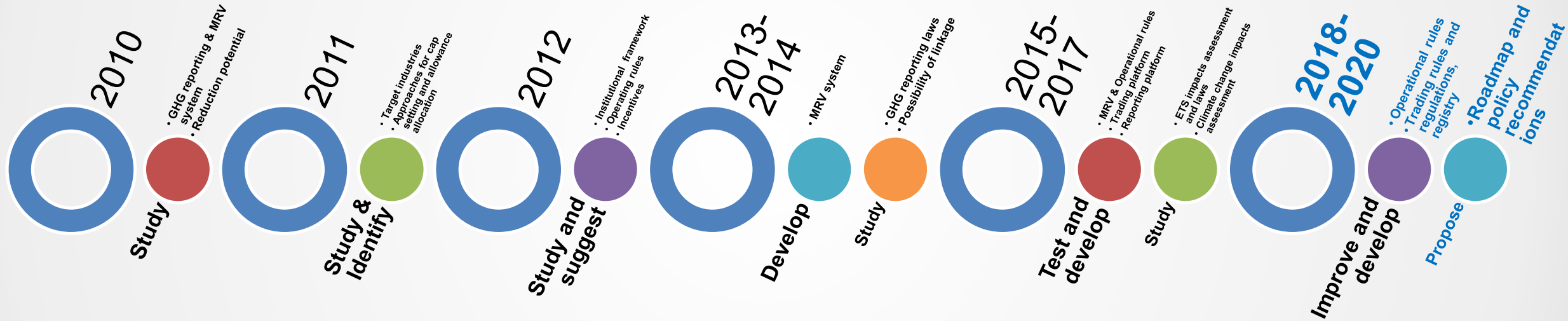
- **Type:** Project-based
- Eligibility:** EE, RE, WM, etc.
- MRV:** ISO 14064-2 / CDM / KVER / J-VER / 14064-3 / 14065
- Carbon Credit:** TVERs
- Registry:** T-VER
- Buyers:** Government / CSR companies / Brokers
- Status:** launched in Oct 2013

Thailand Voluntary Emission Trading Scheme (Thailand V-ETS)

- **Type:** Cap-and-Trade
- Target:** Industrial sector
- MRV:** ISO 14064-1 / 14064-3 / 14065
- Carbon Credit:** Allowances
- Registry:** ETS
- Buyers:** Entities / Traders
- Status:** launched 1st Pilot Phase (2015-2017) in Oct 2014 to test MRV system and develop operational rules
- 2nd Phase (2018-2020) to test trading system and operational rule

Action Plan for ETS in Thailand

(Voluntary phase)



Thailand V-ETS Pilot implementation

- **Operation Period:**
 - **Phase 1:** 2015-2017
 - **Phase 2:** 2018-2020
- **Objectives:**
 - To develop sector specific MRV guideline and test MRV system
 - To develop trading platform and related regulations
- **Base Year Emission:**
 - average 3 years emissions
- **Others:**
 - **Offset credits:** TVERs, JCMs credits generated in Thailand, LCC-TVERs credits (15%)
 - **Banking and borrowing:** Allow banking, no borrowing

Targeted industries (voluntary basis)

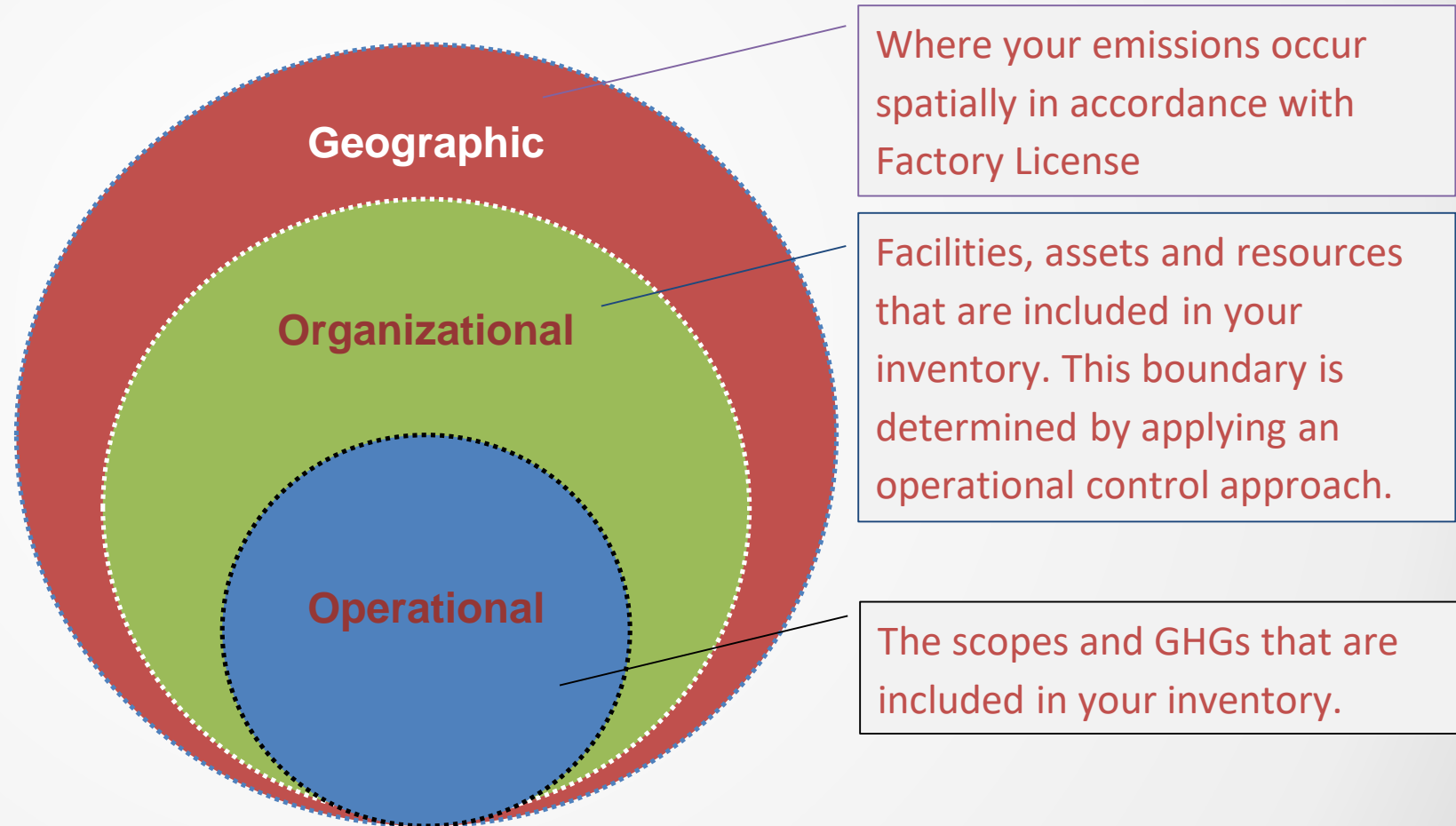
1 st Year	2 nd Year	3 rd Year
Power (11)	Cement (4)	Refinery (2)
Petrochemical (7)	Iron and Steel (4)	Glass (2+1)
	Pulp and Paper (4)	Plastic (6)
		Ceramic (3)
		Food and feed (8)

- **Coverage:**
 - CO₂ from direct and energy indirect emissions (scope 1, 2)
- **Results:**
 - **9 Sectors** Specific MRV Guidelines

Thailand V-ETS MRV

- The MRV system under Thailand V-ETS has been developed in line with ISO 14064-1, 14064-3, and 14065.
- **3rd party verification**
 - Registered VBs under TGO's CFO scheme in the first few years
 - Since Oct 2019, all VBs shall be accredited by National Standard Committee with ISO 14065
 - Reasonable assurance (5% materiality)

Reporting boundaries

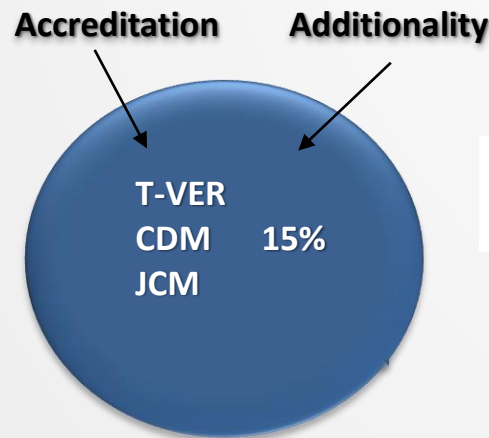


ETS Development



- ✓ General & Specific Guidelines
- ✓ Coverage [20,000 t or 4 ktoe]
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- ✓ CS-7 (E. Audit + CFO)
Reporting platform

- × ETS vs Carbon Tax
- ✓ CC impact



Thank you for your Attention

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