

Current Status and Next Step for Thailand's Nationally Appropriate Mitigation Actions (NAMAs), BUR and MRV



Thailand Greenhouse Gas Management Organization
(Public Organization)
Thawatchai Somnam



Presentation outline

I. Implications of “Nationally Appropriate Mitigation Actions” (NAMAs)

NAMAs/Pledge

NAMAs Implementation

II. NAMAs/Pledge by other developing countries

III. Preparation for Thailand’s NAMAs

IV. BURs preparation

▶ GHG Reporting

V. MRV institutional arrangement

VI. Barriers/Challenge & Opportunity on NAMAs and MRV and Expectations for International Supports

I. “Nationally Appropriate Mitigation Actions” (NAMAs)

COP 13 in Bali, Indonesia

Decision 1/CP.13 *Para. 1 b(ii)* Nationally appropriate mitigation actions (NAMAs) **by developing country Parties** in the context of sustainable development, **supported and enabled** by technology, financing and capacity building, **in a measurable, reportable and verifiable manner**;

COP 16 in Cancun, Mexico

Decision 1/CP.16 *Para. 48* **Agrees** that developing countries **will take Nationally Appropriate Mitigation Actions** in the context of sustainable development, **supported & enabled** by technology, financing and capacity building, **aimed at achieving a deviation in emissions relative to business as usual emissions in 2020.**

Decision 1/CP.16 *Para. 50* **Invites** developing countries **that wish to voluntarily inform the COP of their intention to implement NAMAs** in association with this decision to submit information on those actions to the secretariat;

NAMAs/Pledge

COP : Inviting developing country Parties to inform the COP of their intention to implement NAMAs... still continued

2010

COP 16 in Cancun, Mexico

Decision 1/CP.16 *Para. 50* **Invites** developing countries **that wish to voluntarily inform the COP of their intention** to implement NAMAs in association with this decision to submit information on those actions to the secretariat;

NAMAs/Pledge

2011

COP 17 in Durban, South Africa

Decision 2/CP.17 *Para. 32* **Encourages** developing country Parties **that are yet to submit information** on NAMAs pursuant to decision 1/CP.16, para. 50, to do so,...

NAMAs/Pledge

2012

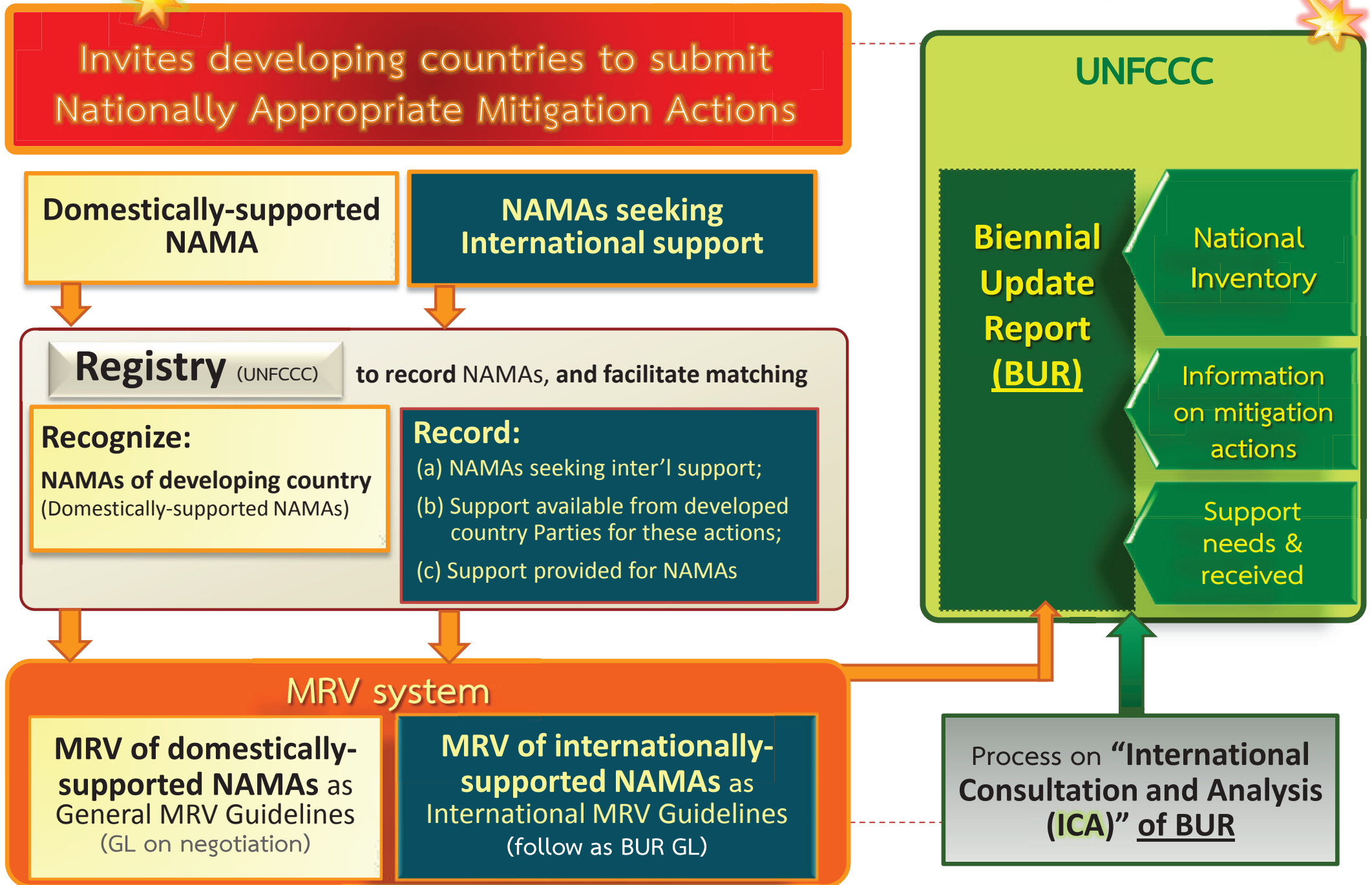
COP 18 in Doha, Qatar

Draft Decision -/CP.18 *Para. 16* **Reiterates** its invitation to developing country Parties **that wish to voluntarily inform the COP of their intention to implement NAMAs** in association with decision 1/CP.16, para. 50, to submit information on those actions to the secretariat;

NAMAs/Pledge

NAMAs Negotiation

Enhance mitigation and Enhance reporting



II. “NAMA/Pledges” by other developing countries

▶ Pledge Formation ◀



NAMA/Pledges by other developing countries

- ▶ **55 developing countries*** have voluntarily informed/submitted their information on NAMAs to UNFCCC secretariat (as of 2013)
- ▶ **NAMAs/Pledge and its description are various in forms**
For example Mitigation goals; Strategies/ Plan; Policy/ Program/ Project

*Source : UNFCCC

- FCCC/AWGLCA/2011/INF.1
- FCCC/AWGLCA/2012/MISC.2
- FCCC/AWGLCA/2012/INF.2

NAMAs by some developing countries

Country	NAMAs/Pledges
China	Lower CO ₂ emissions per unit of GDP by 40 - 45% by 2020 compared to the 2005 level
India	Reduce the emissions intensity of its GDP by 20-25% by 2020 in comparison to the 2005 level
Brazil	Reduce emissions by 36.1% - 38.9% <u>below BAU</u> by 2020
Mexico	Reduce emissions by 30% <u>below BAU</u> in 2020.
Korea	Reduce emissions by 30% <u>below BAU</u> by 2020
South Africa	Reduce emissions by 34% <u>below BAU</u> by 2020
Chile	Achieve a 20% deviation <u>below BAU</u> emission growth trajectory by 2020



NAMAs by ASEAN countries

Country	NAMAs/Pledge
Indonesia	Reduce emissions by 26% by 2020
Cambodia	Cambodia has been implementing a pilot project within the framework of Reducing Emissions from Deforestation and Forest Degradation in Developing countries (REDD) since 2009 , as part of its responsibility in tackling climate change
Singapore	Reduce emissions by 16% below BAU by 2020
Brunei Laos Malaysia Myanmar Philippines Thailand Viet Nam	<u>Not yet submitted NAMA</u>

NAMAs by Least developed countries

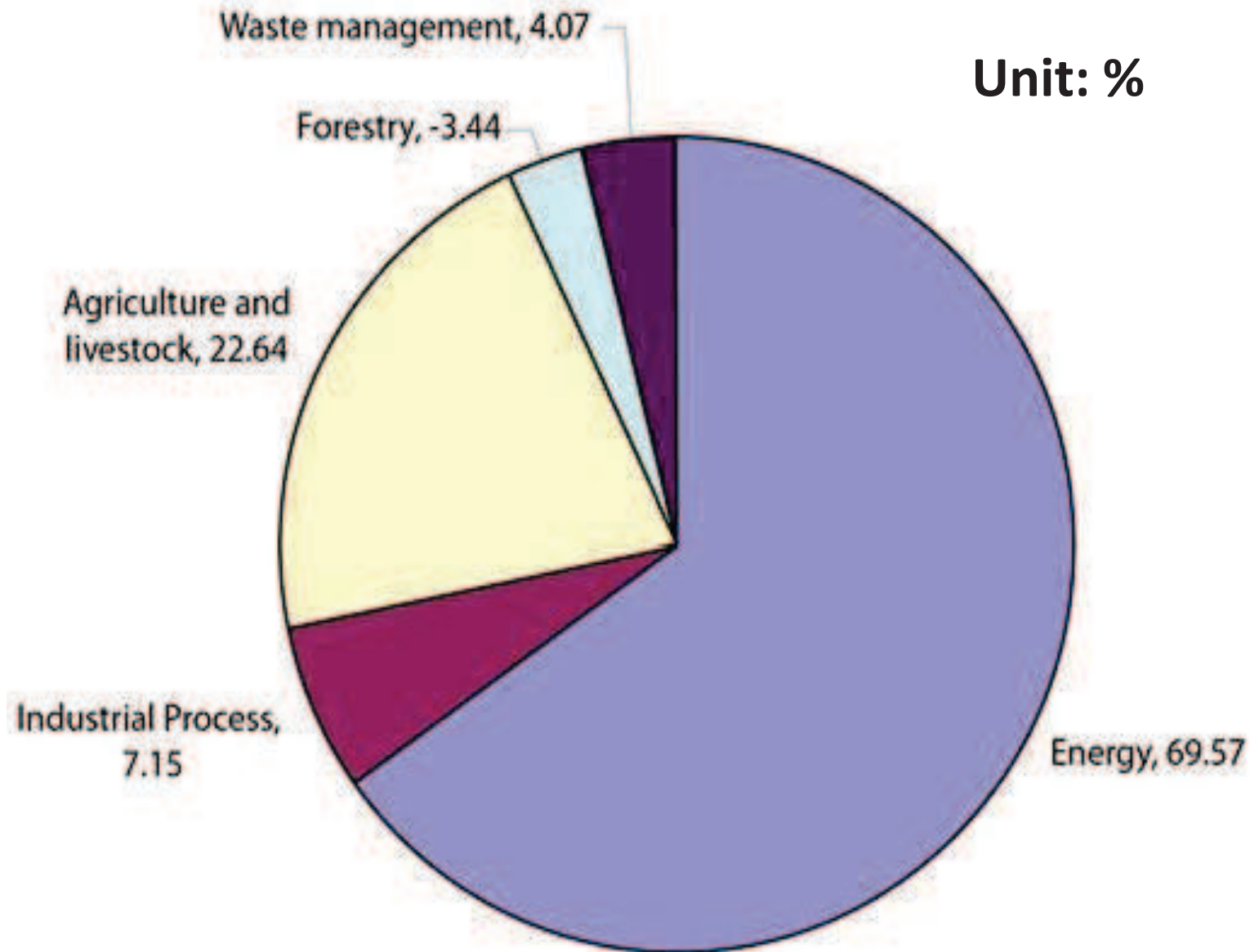
Country	NAMAs/ Pledge
Maldives	Achieve carbon neutrality <u>as a country</u> by 2020.
Afghanistan	<ul style="list-style-type: none"> ● Preparation of the Initial National Communication, which will include specific mitigation strategies and activities appropriate for the national context; ● Compilation of National GHG Inventory
Ethiopia	Plans to implement the following NAMAs by 2020:

III. Preparation for Thailand's NAMAs/Pledge



GHG MITIGATION IN THAILAND

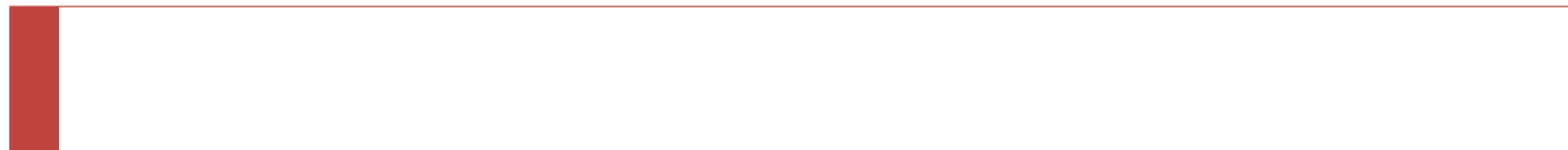
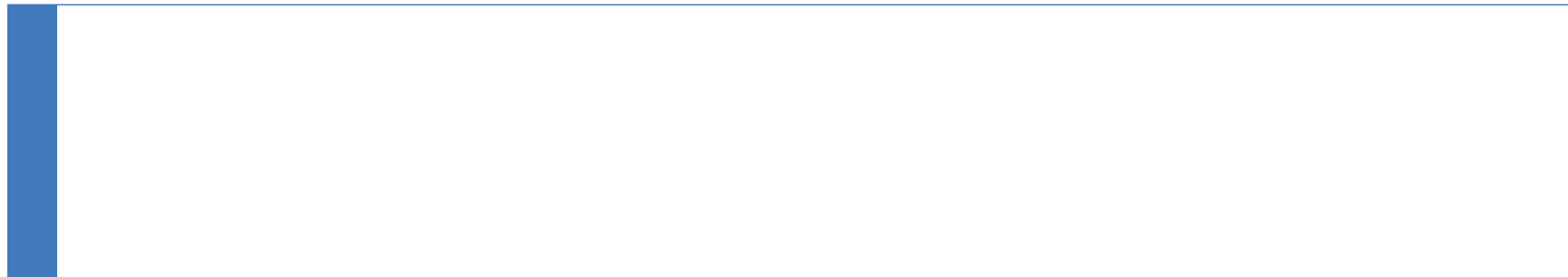
Thailand's GHG emissions by sources in 2000



ENERGY POLICY IN THAILAND

Energy Policy related to GHG Mitigation in Thailand

1. Energy Security
2. RE Strategies
3. EE Strategies



CRITERIA FOR DOMESTIC AND INTERNATIONALLY SUPPORTED NAMAS

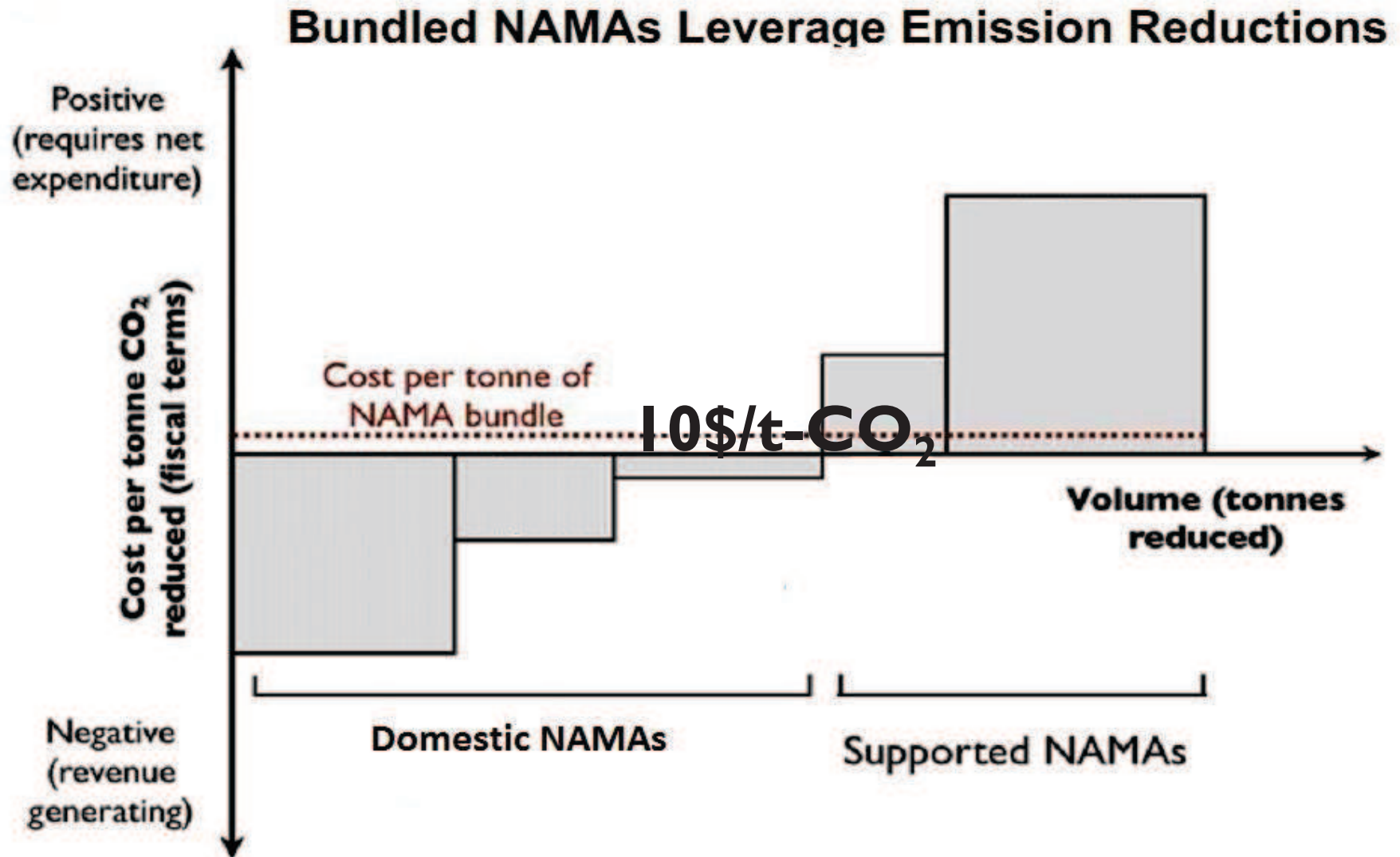
Criterion to CO₂ countermeasures

Marginal Abatement Cost (MAC)

or

Incremental Abatement Cost (IAC)

Domestic vs. Internationally Supported NAMAs



NAMA Analysis Tool

- ▶ Optimization tool for GHG mitigation options

AIM/EndUse (academic/research) or

MARKAL (commercial)

AIM = Asia-pacific Integrated Model

AIM/EndUse has been developed by **National Institute for Environmental Studies (NIES)**, JAPAN for analyses of energy and environment issues.

Outputs: Final Energy, Economics-MAC, Environment-CO₂

CRITERIA FOR DOMESTIC AND INTERNATIONALLY SUPPORTED NAMAs

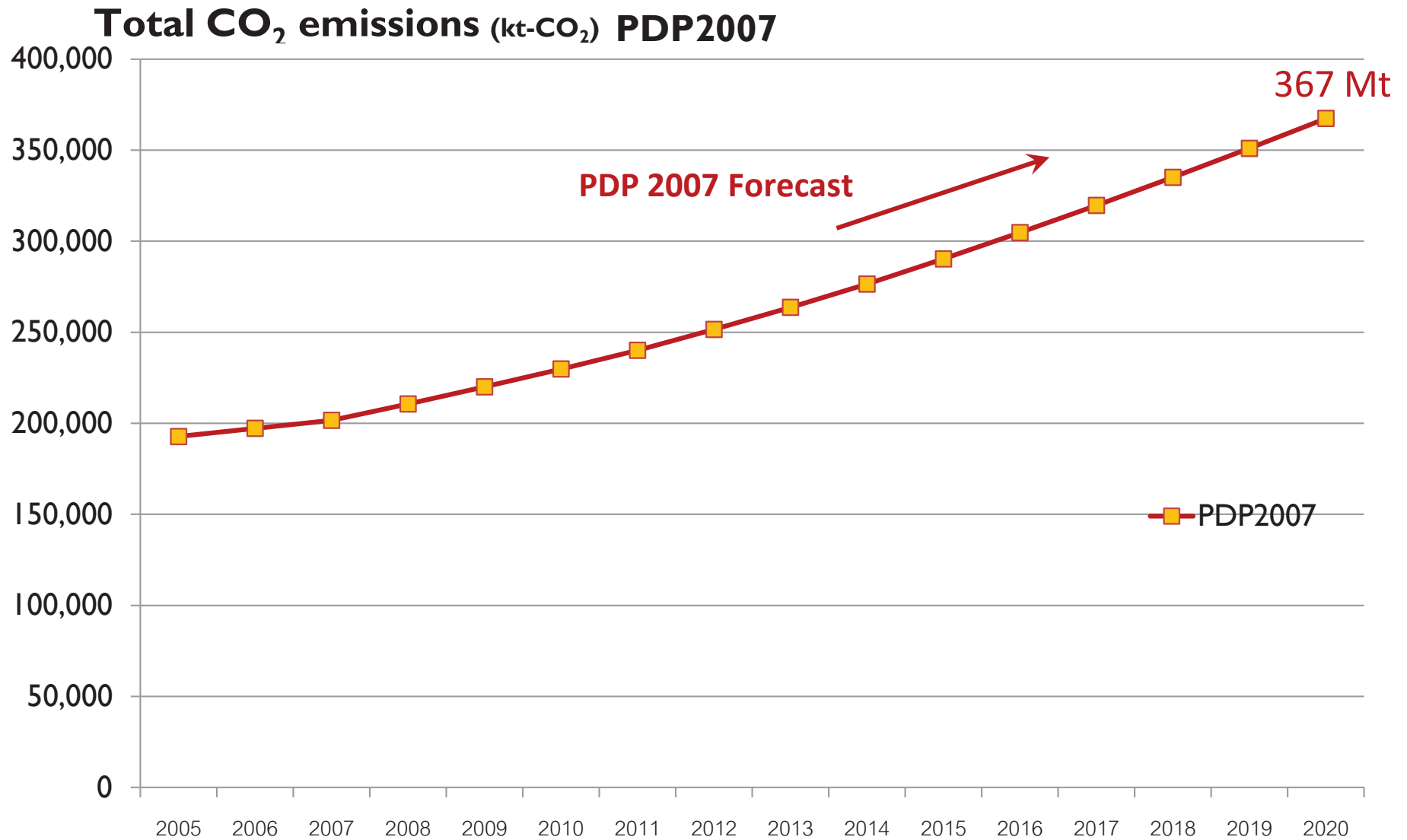
Domestic NAMAs

- Energy efficiency and other low-cost mitigation activities
- Policies to overcome barriers
- Limited needs for external finance and technology

Internationally Supported NAMAs

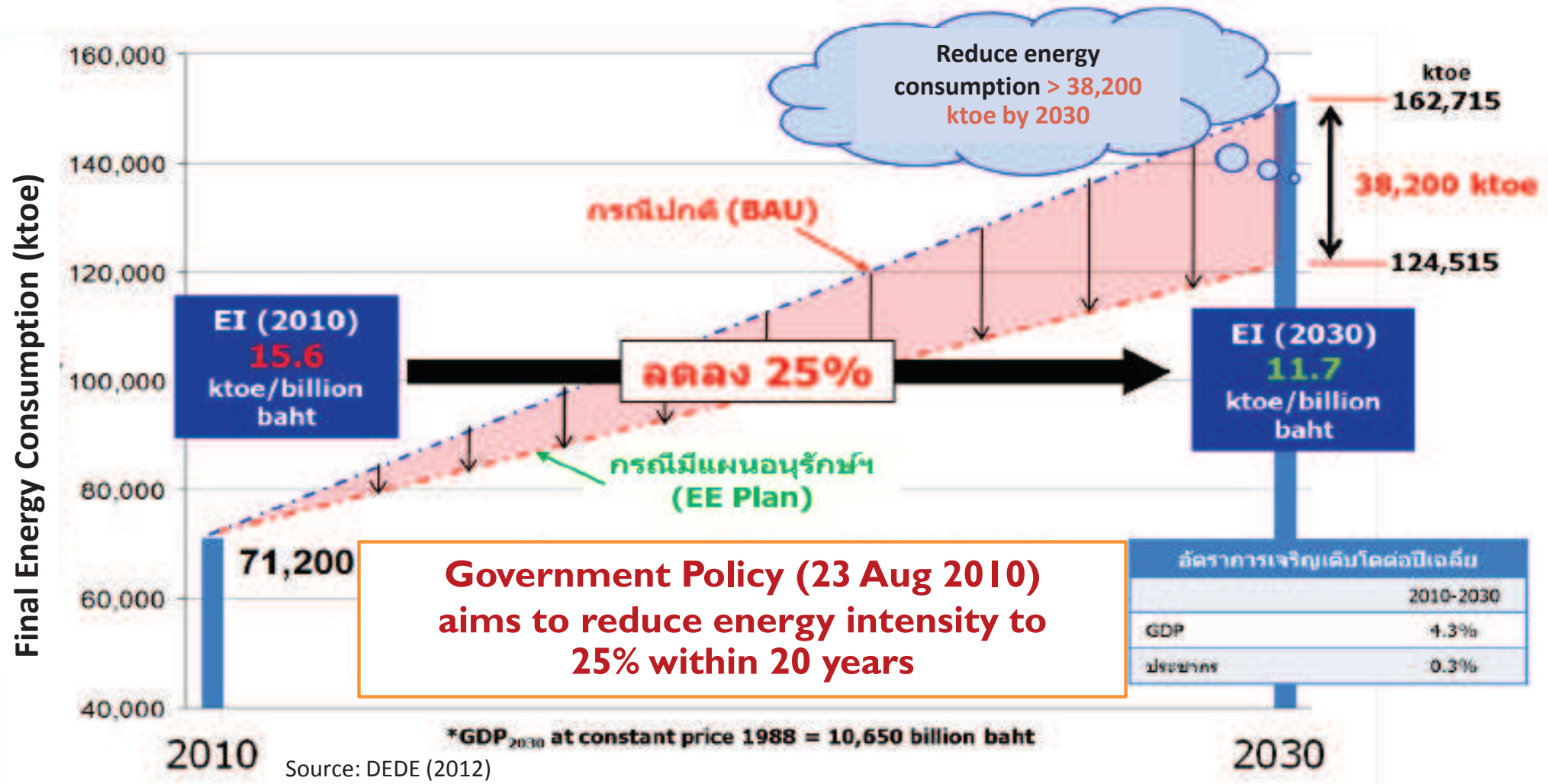
- Finance and/or technology support from Annex I countries
- Need MRV

CO₂ Emissions in the BAU 2020



Energy policies in Thailand : EE

Energy Efficiency Plan 2010-2030 (20 Years Plan)



Energy policies in Thailand : RE

Renewable Energy Development Plan 2008-2022

Department of Alternative Energy Development and Efficiency
MINISTRY OF ENERGY

Alternative Energy Development Plan 2008-2022

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