

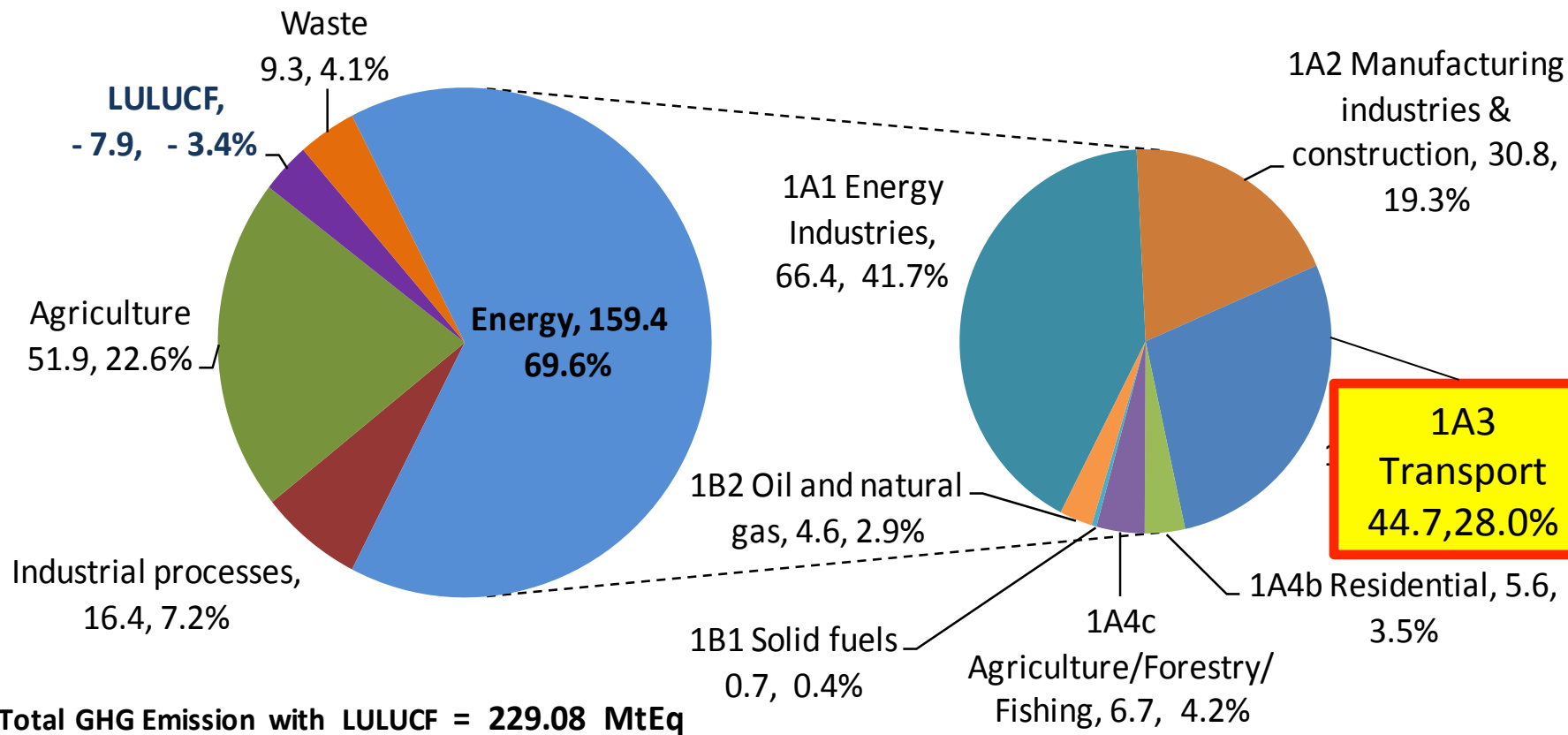


การลดการปล่อยก๊าซเรือน กระจก จากภาคการขนส่ง

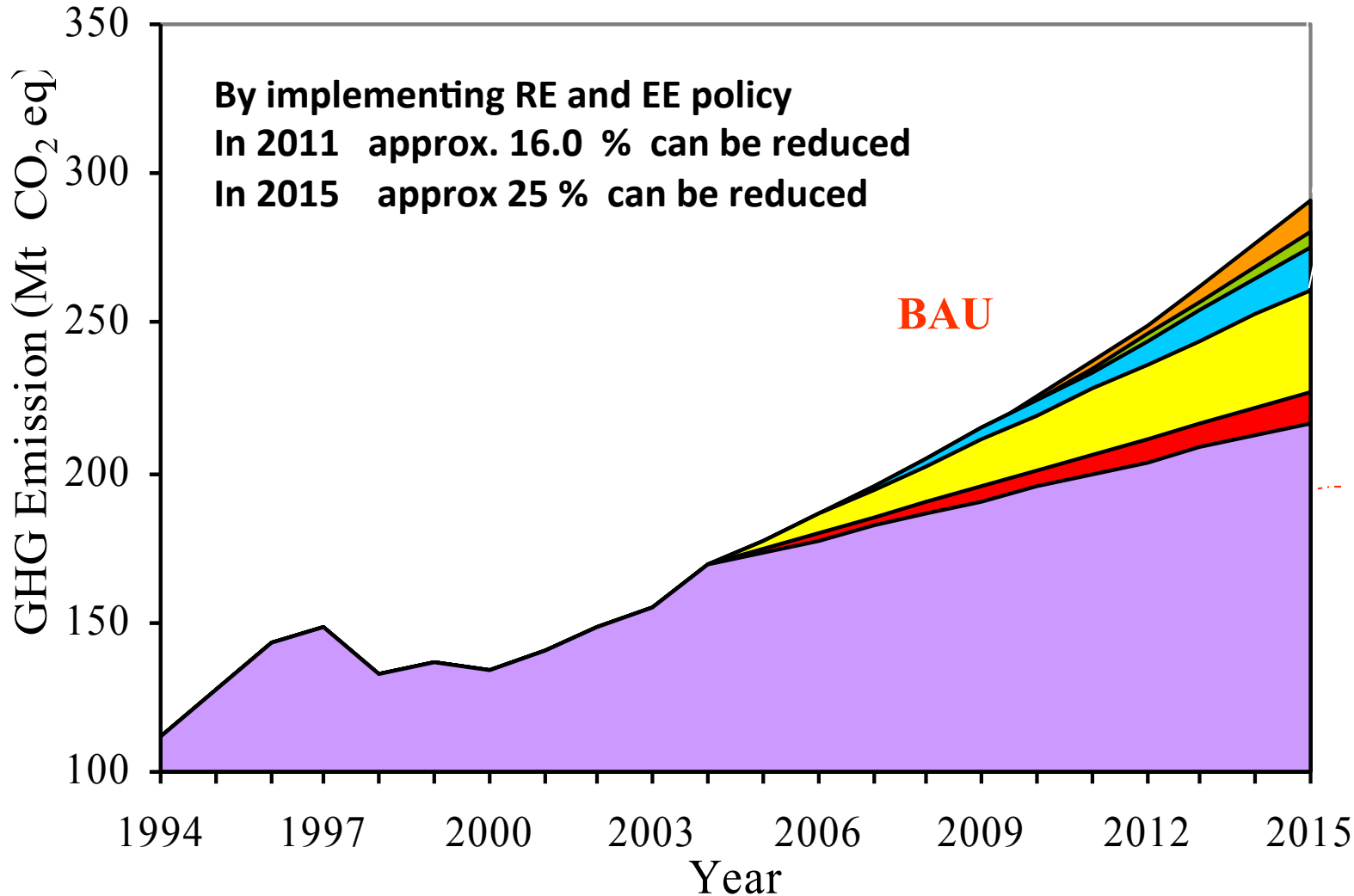
ดร.ชัยวัฒน์ มั่นเจริญ
รองผู้อำนวยการองค์การบริหารจัดการก๊าซเรือนกระจก
Thailand Greenhouse Gas Management
Organization
(Public Organization)

ปริมาณการปล่อยก๊าซเรือนกระจกจากภาค ขนส่ง ปี 2000

Emission in 2000 by 'Energy Sector' (Mt CO2 eq, %)



การลดการปล่อยก๊าซเรือนกระจกจากภาคพลังงาน



- RE: Electricity
 - Solar
 - Wind
- RE: Industry
 - Biomass
 - Biogas
- RE: Transportation
 - Ethanol
 - Biodiesel
- EE: Industry
 - Tax exemption
 - Soft loan promotion
 - ESCO
 - Labeling
 - Industrial
- EE: Transportation
 - Mass transit
 - Rail way and water way promotion
 - Promote Logistic Depot
 - Networking
 - Tax measure
 - Traffic management
 - Increase car efficiency

RE = Renewable Energy EE = Energy Efficiency

National Policies and Planning related to Climate Change

11th National Economic and Social Development Plan (2012-2016)

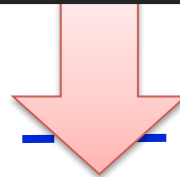
Policy Statement of the Council of Ministers

Ministry of Natural Resources and Environment (MNRE)

National Strategic Plan on Climate Change (2008-2012)

Thailand Climate Change Master Plan (2011-2050)

Environmental Quality Management Plan (2012-2016)



Ministry of Energy

National Energy Efficiency Development Plan

Alternative Energy Development Plan

Ministry of Transport

Transport Master Plan (2011-2020)

Ministry of Industry

National Industrial Development Master Plan (2010-2014)

Ministry of Agriculture and cooperatives

(Draft) Master Plan in Agricultural Climate Change in Agricultural Sector

National policy/National Plan in Climate Change

Specific plan

การดำเนินงานลดก๊าซเรือนกระจกที่เหมาะสมของ ประเทศ

NAMAs (National Appropriation Mitigation Actions)

Economic and Social
Development Plan
(2012-2016)

Sector that related
to GHG emission
reduction

Nationally Appropriate
Mitigation Action (NAMAs)

Measurement
Reporting and
Verification

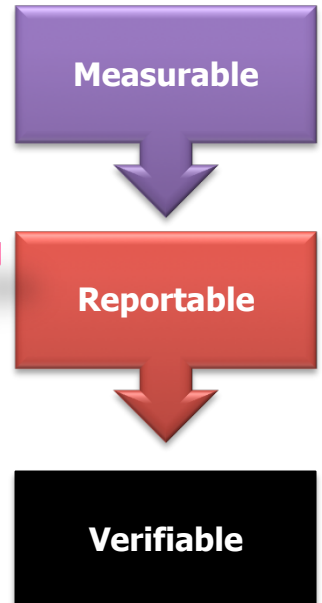


Specific National
Development Plans
for major ministries
i.e. energy,
transportation,
industry

- Industry
- Transport
- Agriculture
- Commercial
- Residential
- Power

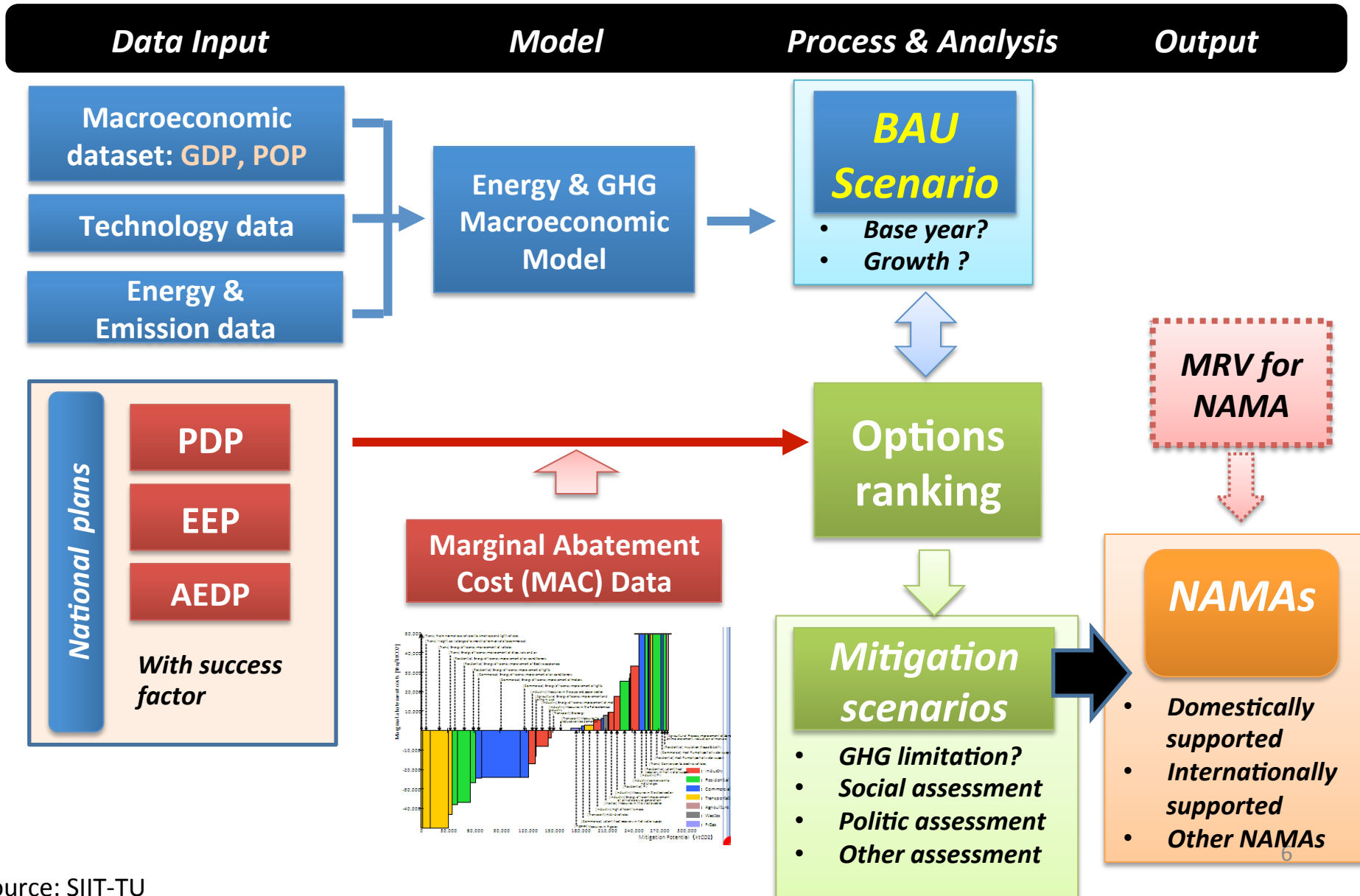


- Domestically Supported
NAMAs
- Internationally
Supported NAMAs
- Crediting
Mechanism
NAMAs



NAMAs ต้องสอดคล้องกับแผนพัฒนาเศรษฐกิจและสังคมแห่งชาติ และการลดการปล่อยก๊าซเรือนกระจกต้องสามารถตรวจวัด รายงาน และทวนสอบ (Measurable, Reportable, Verifiable) ได้

Developing NAMA for energy sector



Supported NAMAs

Domestic NAMAs

Marginal Abatement Cost (MAC) Analysis

> 10 \$/ton CO₂ reduction

< 10 \$/ton CO₂ reduction

(\$/tCO₂)

(\$/tCO₂)

Power

Wind	51.88
Solar	102.81
MSW (Local Landfill)	32.8
MSW (Incinerator)	140.6
MSW (Biogas Digester)	164.7
MSW (Controlled Landfill)	395.3

Power

Biogas	0.02
Mini Hydro	0.69
Biomass	2.67
Lighting	0.04
A/C	0.11
Motor	2.47
Furnace	10.33

EE

EE

Kiln	20.39
Boiler	37.73

Transport

Transport

Biodiesel 2 nd Gen	✓
NGV	✓

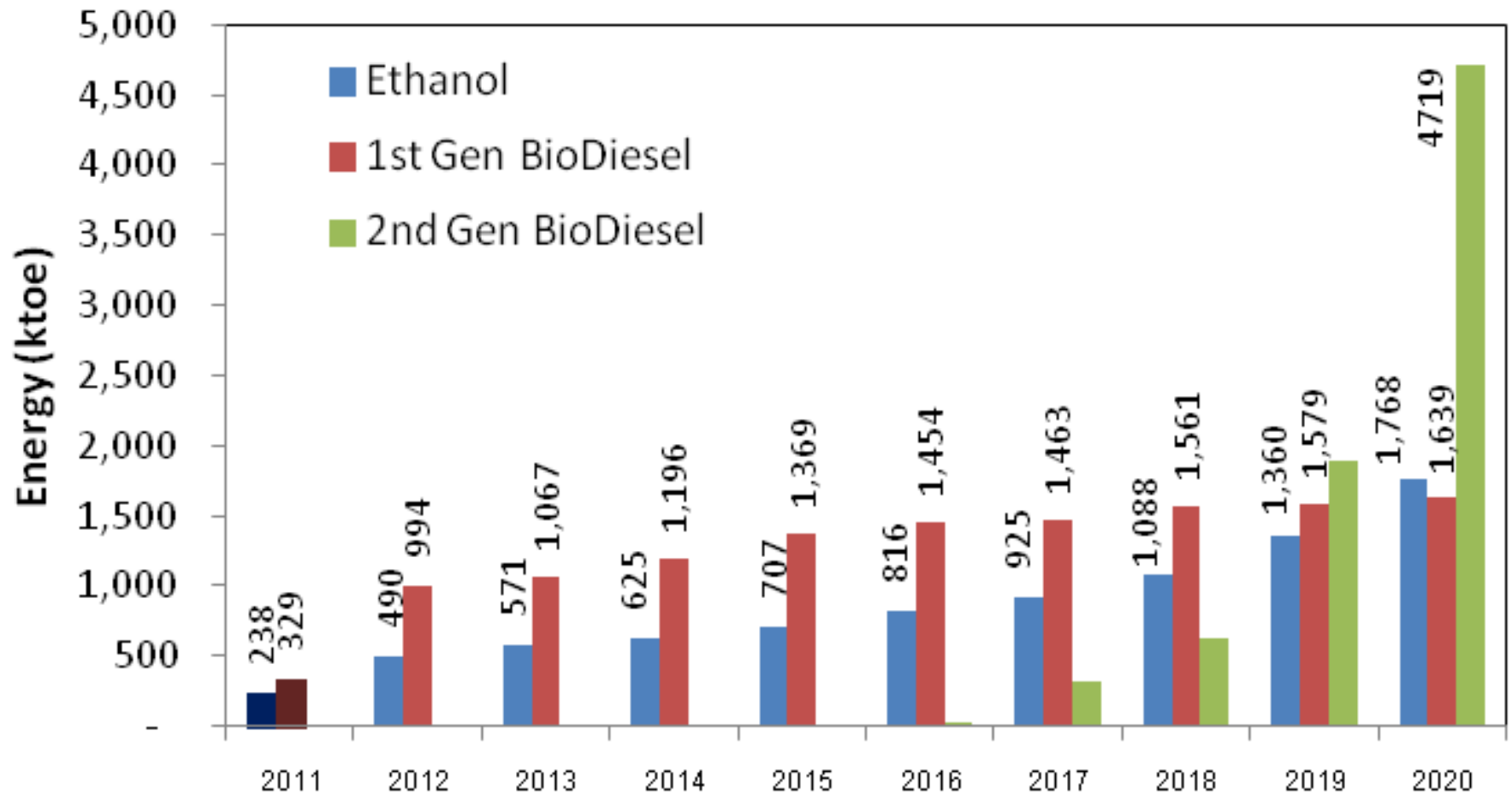
Ethanol	✓
Biodiesel 1 st Gen	✓
Improving fuel economy	✓



Identified CO₂ countermeasures and CO₂ mitigation in 2020 (Based on PDP 2007)

NAMAs	CO ₂ Countermeasures	CO ₂ reduction in 2020 (kt-CO ₂)
Domestic NAMAs	RE Power (MAC)	2,568
	EE Industries (MAC & Large)	4,762
	Building Codes (Large)	5,909
	Transport/Ethanol (AEDP 25%)	5,069
	Transport/Biodiesel 1 st Gen	5,022
	Improving Fuel Economy	400
	Sub-total	24.0 Mt-CO₂
Internationally Supported NAMAs	RE Power (MAC)	13,498
	EE Industries (MAC & Large)	9,743
	Transport/Biodiesel 2 nd Gen	14,459
	Transport/NGV	644
	Sub-total	38.0 Mt-CO₂
Total Domestic and Supported NAMAs		62.0 Mt-CO₂
Total emissions in 2005 (energy only)		192,724 kt-CO₂
Total emissions in BAU2020 (energy only)		367,436 kt-CO₂

เป้าหมายการเพิ่มการใช้ bio-fuel ตามแผน AEDP 25%



Contact Detail

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Thank you for your attention

