



**Asia-Pacific  
Economic Cooperation**

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**2011/SOM1/EWG/WKSP3/013**

Agenda Item: V1-4

## **Energy Efficient Urban Passenger Transportation Thailand**

Submitted by: Thailand



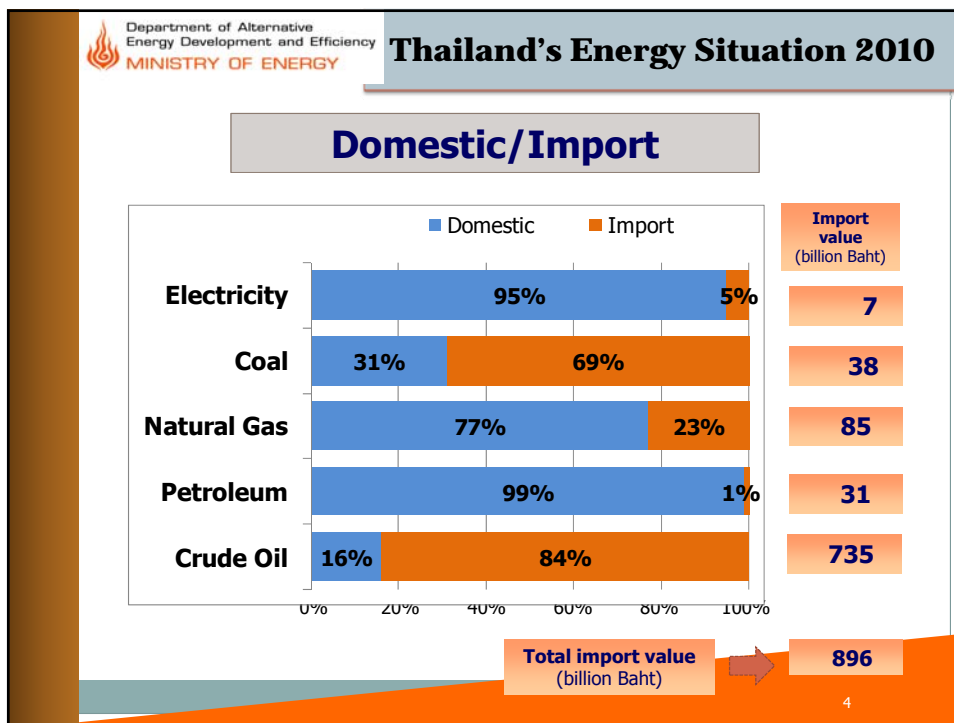
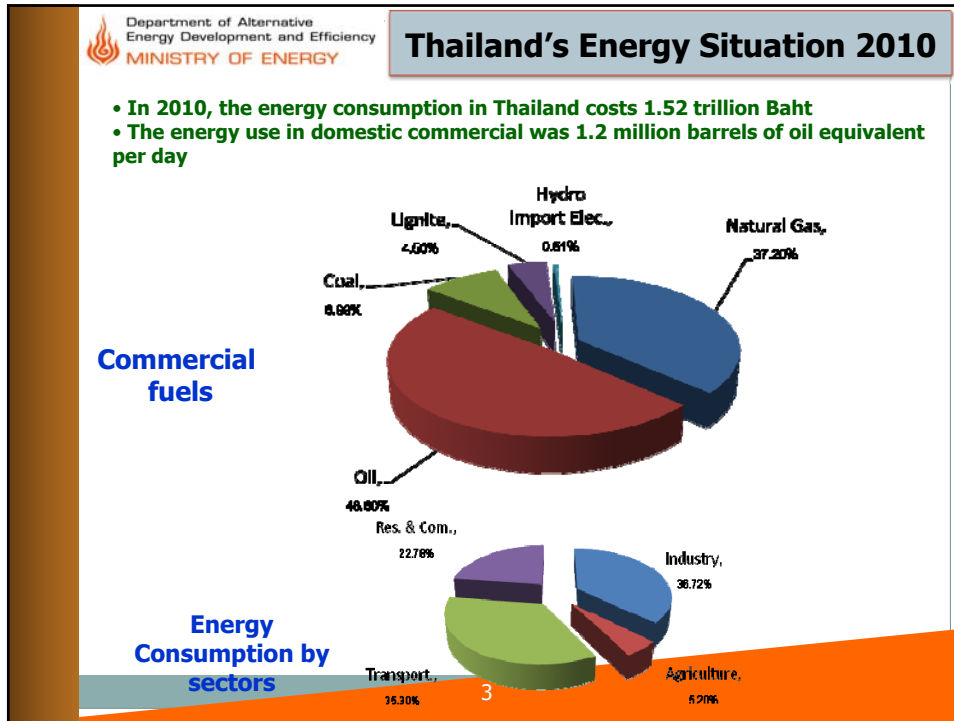
**APEC Cooperative Energy Efficiency  
Design for Sustainability - Energy Efficient  
Urban Passenger Transportation  
San Francisco, United States  
14–16 September 2011**

# Energy Efficient Urban Passenger Transportation Thailand



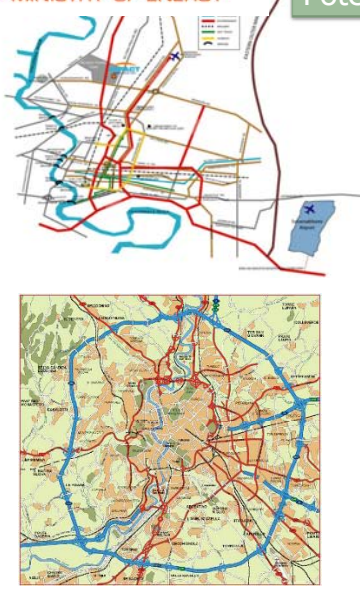
**APEC COOPERATIVE ENERGY EFFICIENCY DESIGN  
FOR SUSTAINABILITY (CEEDS) - PHASE 3  
14 – 16 SEPTEMBER 2011, SAN FRANCISCO, USA**





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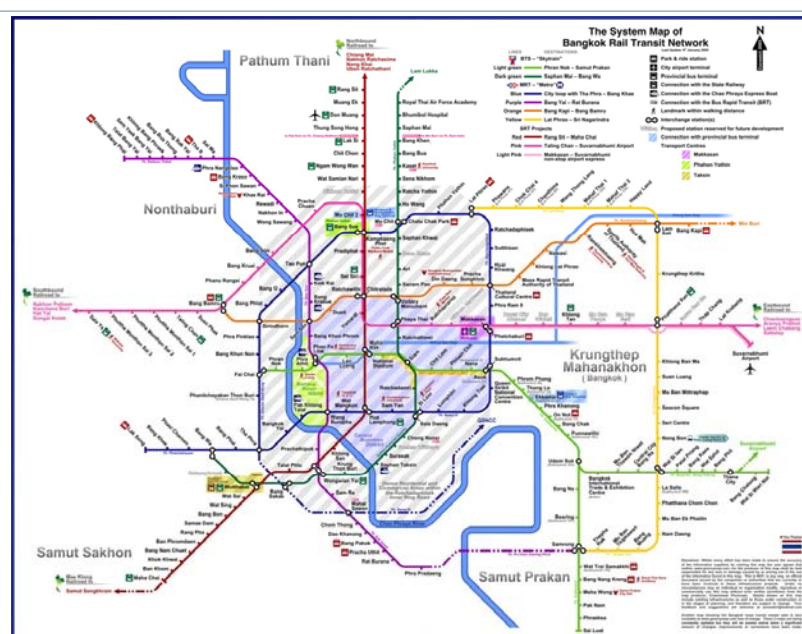
## Potential and Situation in Road Transport



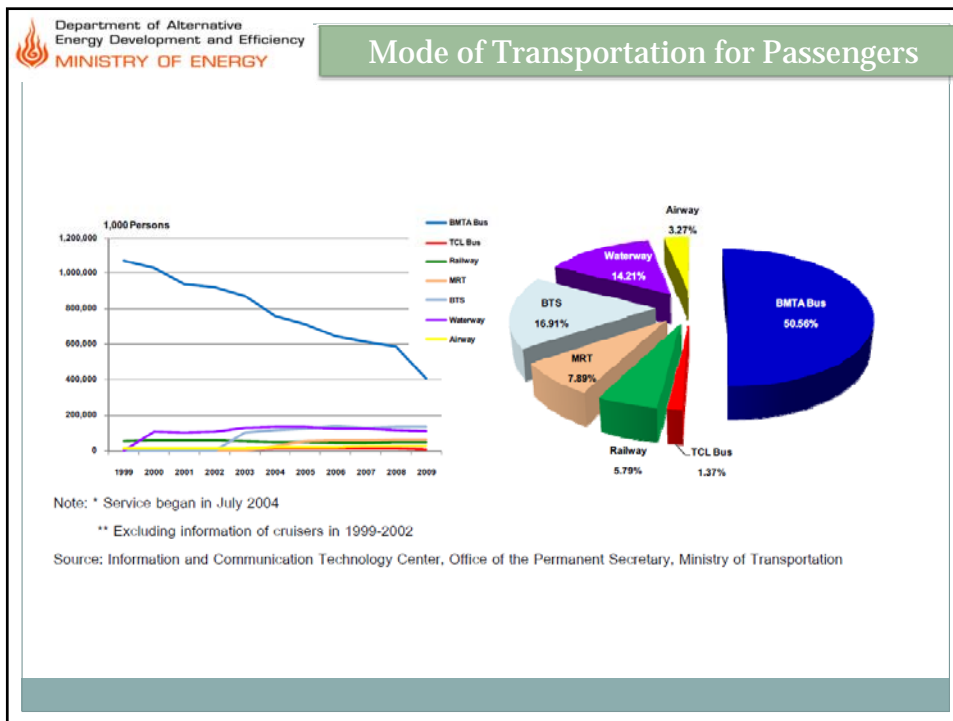
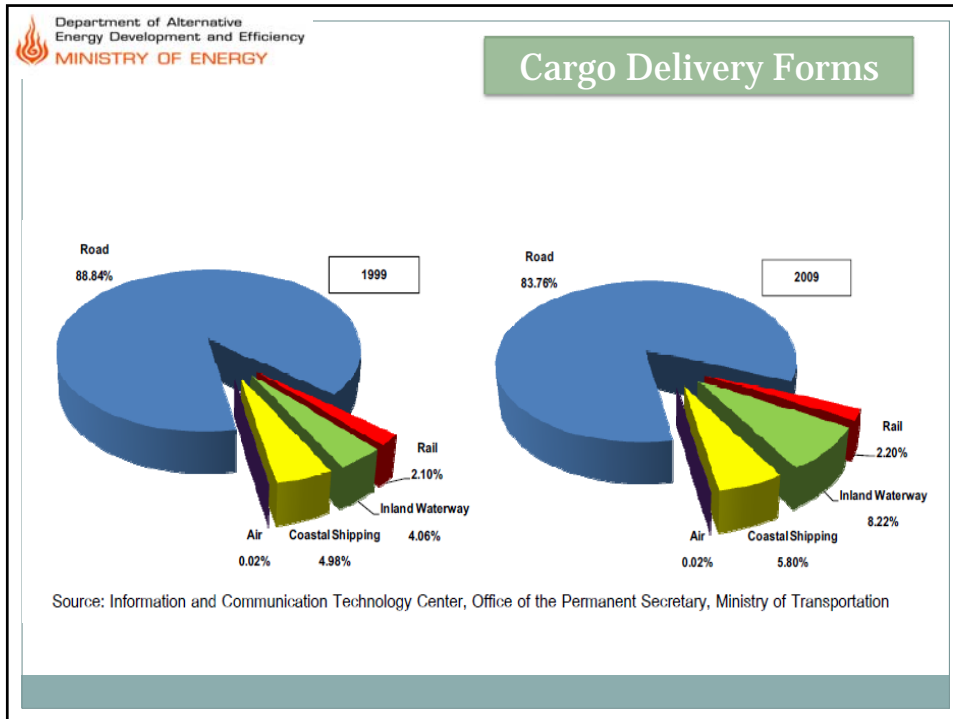
- Ranked 35<sup>th</sup> out of 133 economies in Quality of Highway Network
- 84% of Road Transportation
- Bottleneck around gateway and incomplete road network
- Enormous travel volume
- Public bus services – extensive but low quality

**Bangkok Expressway**

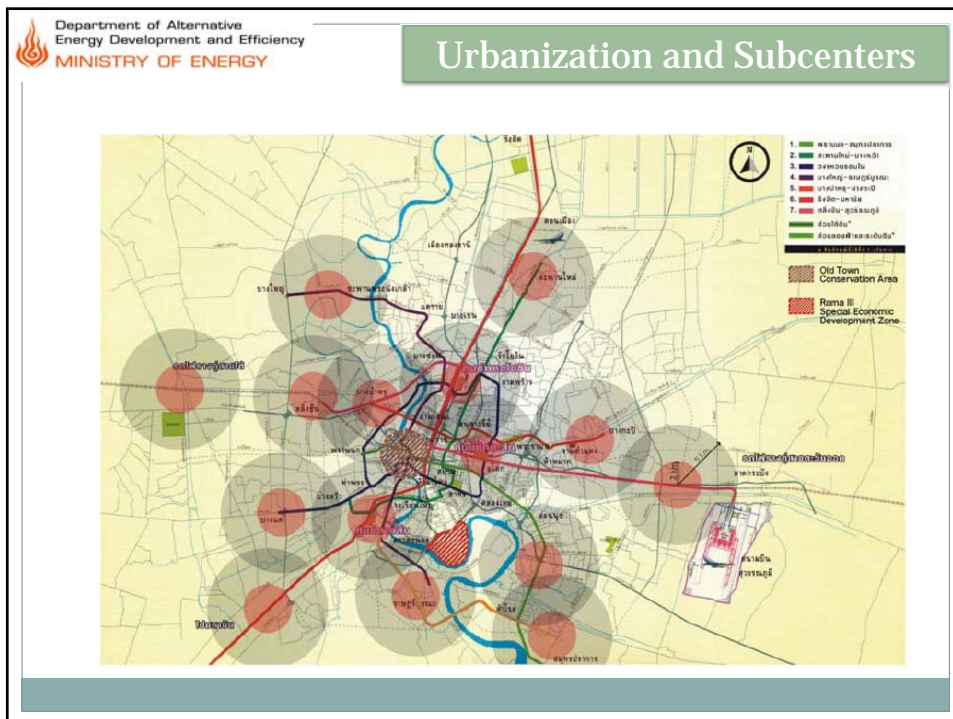
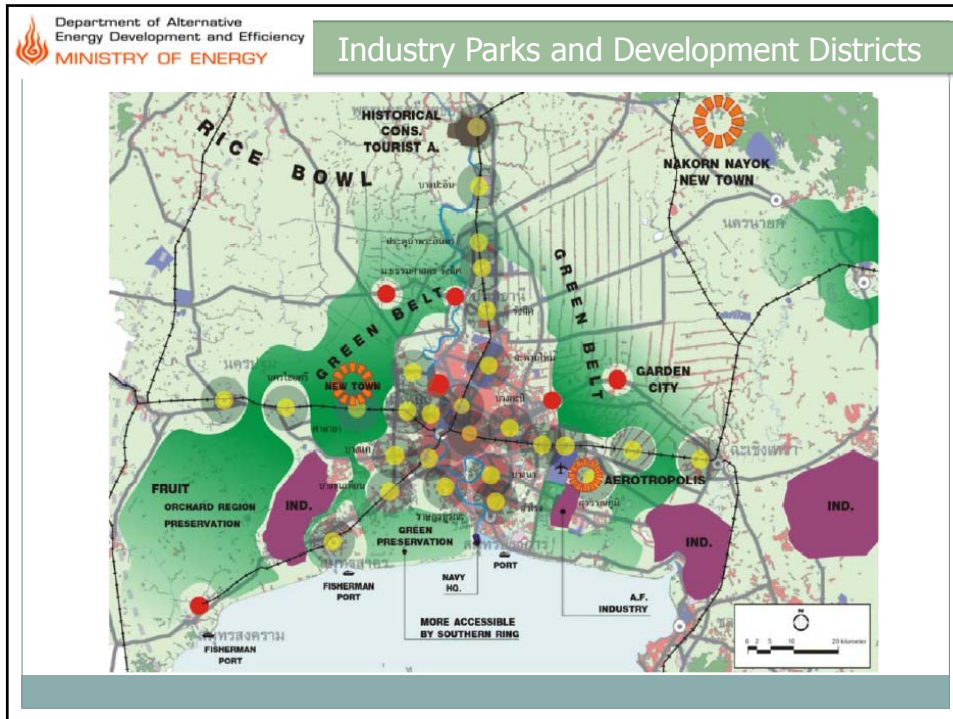
### The System Map of Bangkok Rail Transit Network



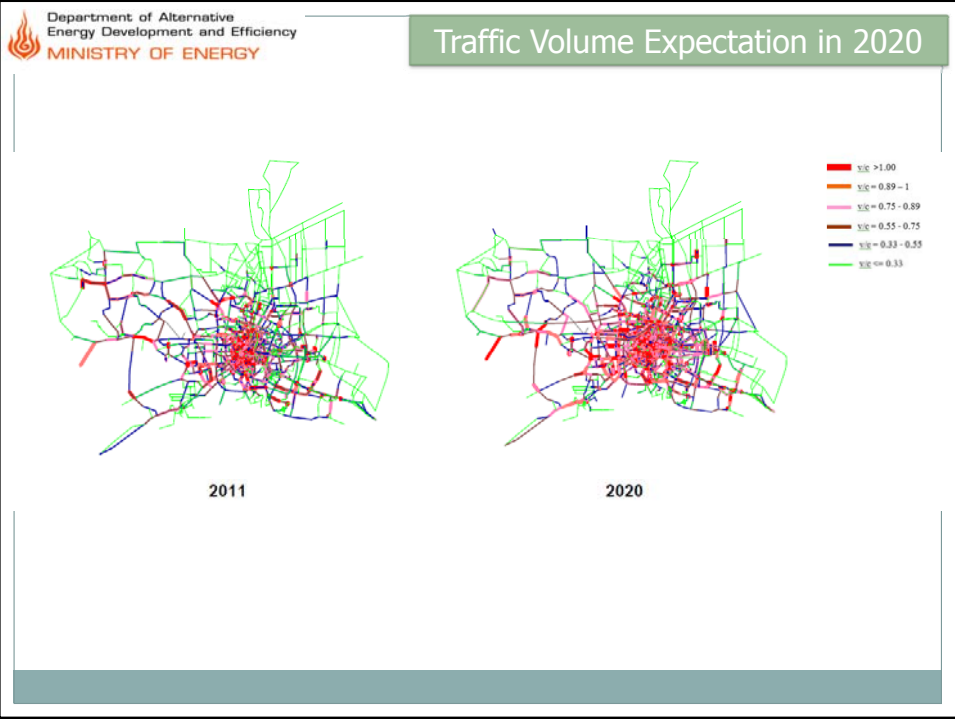
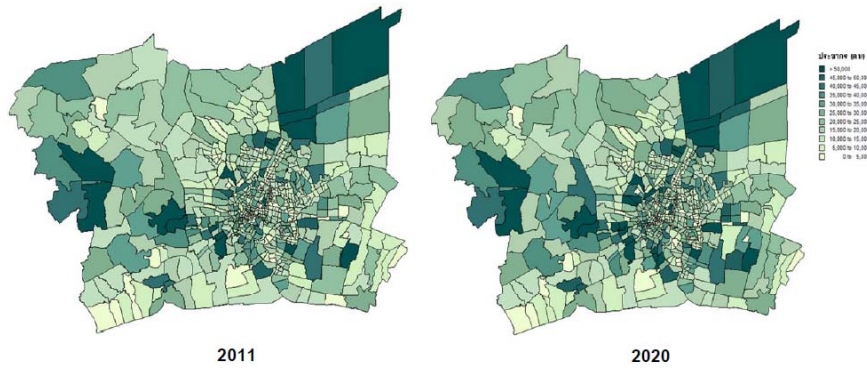
**Bangkok Rail Transit Network**





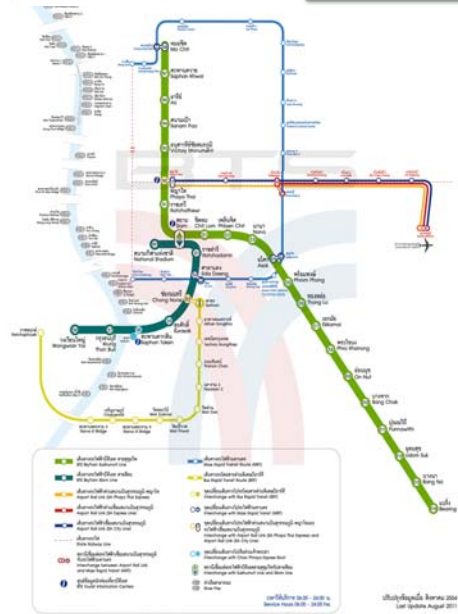


### Changes of Population in Different Areas in Bangkok Metropolitan



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## Challenges of Transportation Development

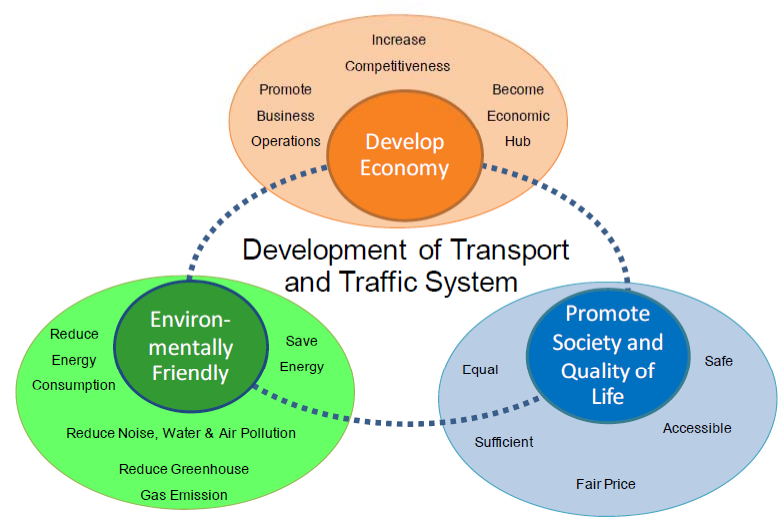


- Serve economic growth and changes in social conditions
- Safety issues
- Level of service and infrastructure
- Effects to environment and communities
- Energy consumption

**Bangkok Rapid Transit System**

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## Transportation Development Strategies



**Development of Transport and Traffic System**

**Develop Economy** (Orange circle): Increase Competitiveness, Promote Business Operations, Become Economic Hub

**Environmentally Friendly** (Green circle): Reduce Energy Consumption, Save Energy, Reduce Noise, Water & Air Pollution, Reduce Greenhouse Gas Emission

**Promote Society and Quality of Life** (Blue circle): Equal, Sufficient, Fair Price, Safe, Accessible



โครงการ ขยายโครงข่าย

Existing Mass Rapid Transit

20 year Master Plan

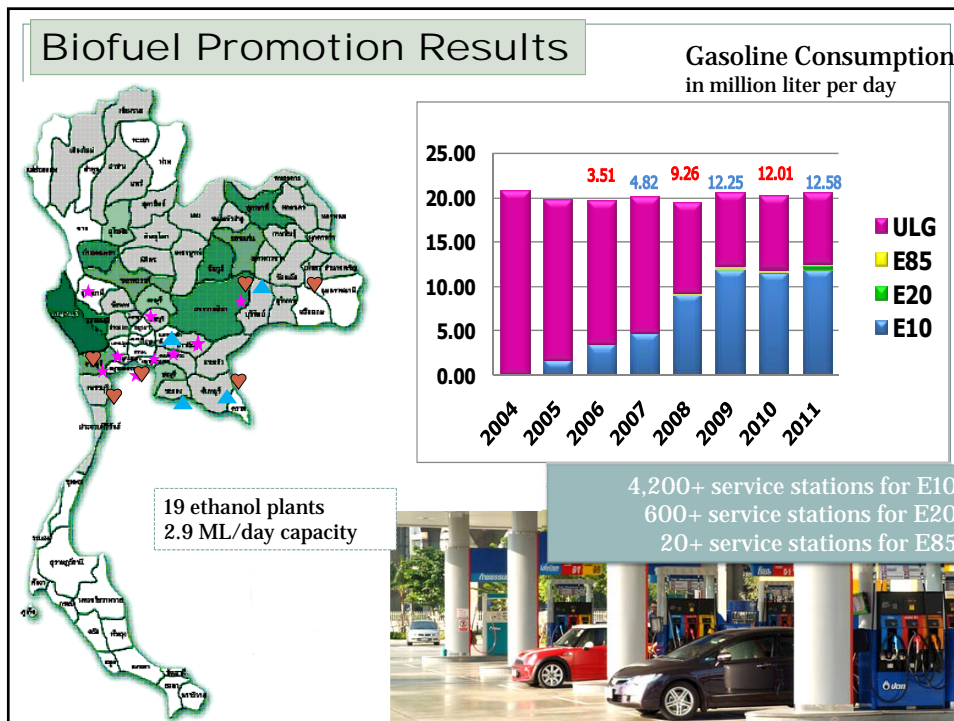
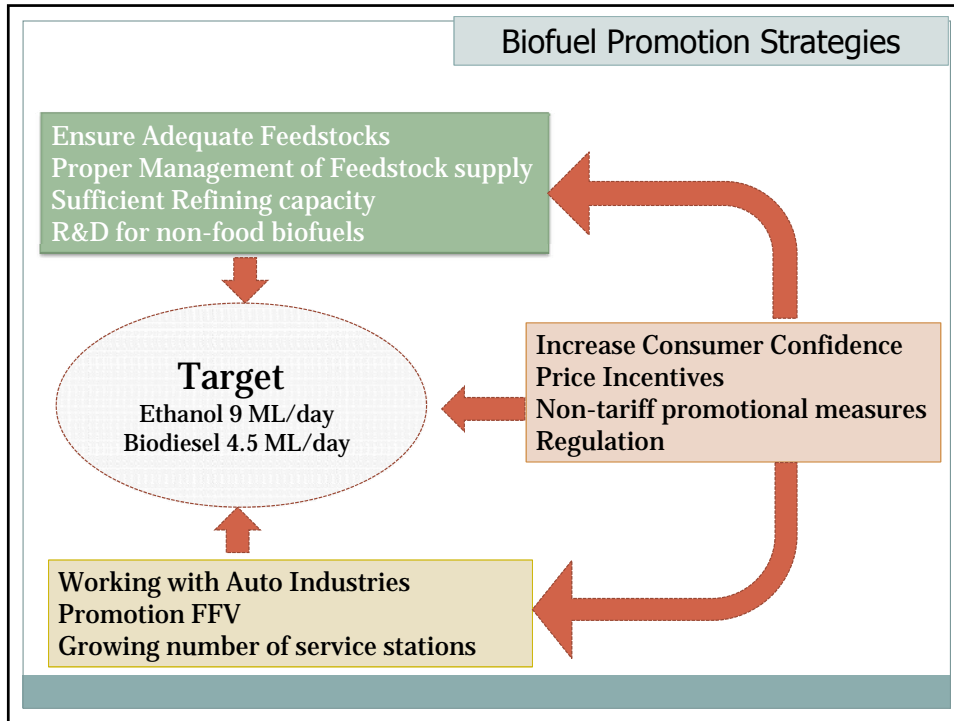
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REFLASH จานเครื่องยนต์ เพื่อรองรับการใช้

**GASOHOL 95**

พร้อมเพิ่มความแรงให้กับรถของคุณ

กรีนพลัส 81  
แก๊สโซฮอล์ 95  
แก๊สโซฮอล์ 91  
E20  
E85  
แก๊สโซฮอล์  
เพกาจอร์



## Programs under consideration

- High EE labeling for passenger cars
- Lower import duties and incise tax for high EE cars
- Special lanes / free parking for high EE cars or FFV
- Promotion of Car Pooling
- Carbon Tax ?
- Electric Vehicles / Smart Grid ???

Improve Public Transportation  
(Ministry of Transportation)

## Expectation from CEED III Workshop

- Learning about energy efficiency promotion strategies for automobiles
- Learning about alternative energy promotion for automobiles
- Learning about successful implementation cases
- Learning about Technology status and potentials in Transportation sector
- Enhance capacity to formulate a Road Map to Improve Energy Efficient Transport