

Low Carbon City Approach in Thailand:

A best practice at

Muangklang Municipality, Rayong Province

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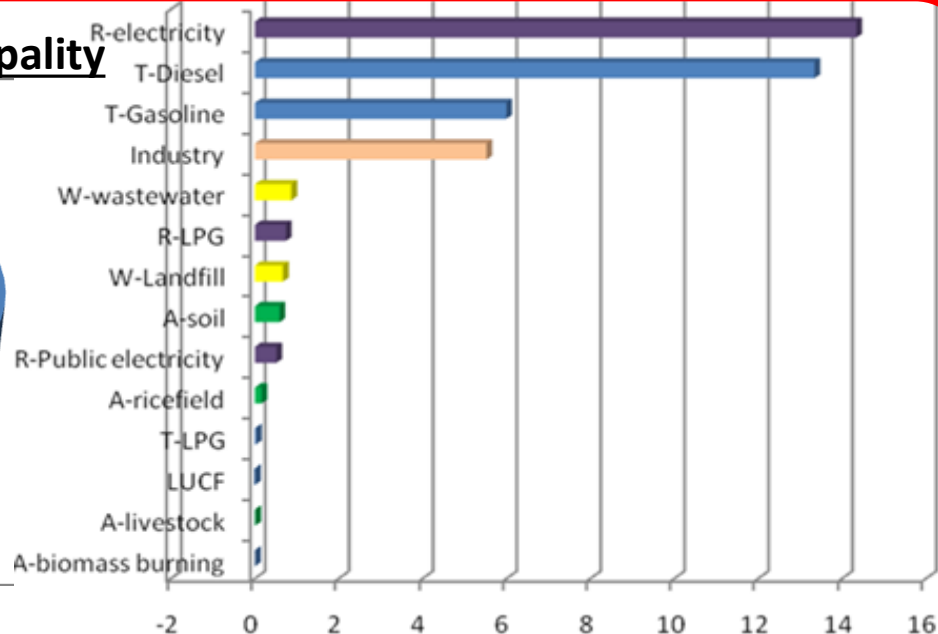
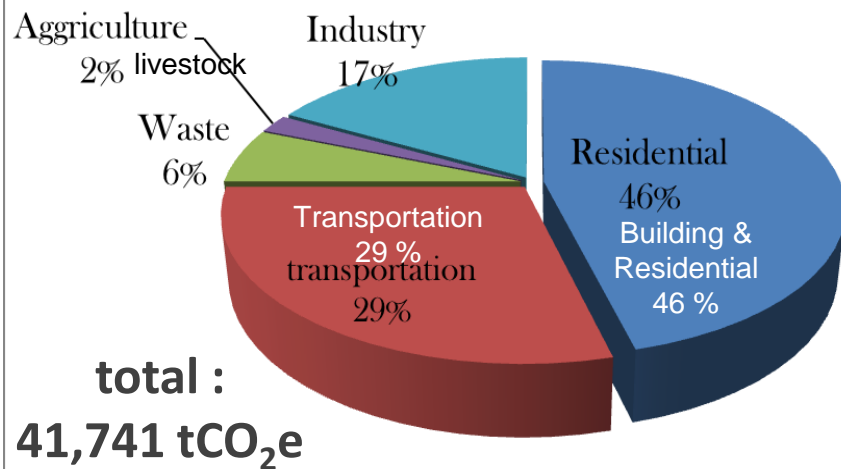
**is a small-size city located in Rayong province,
the east coast of Thailand**



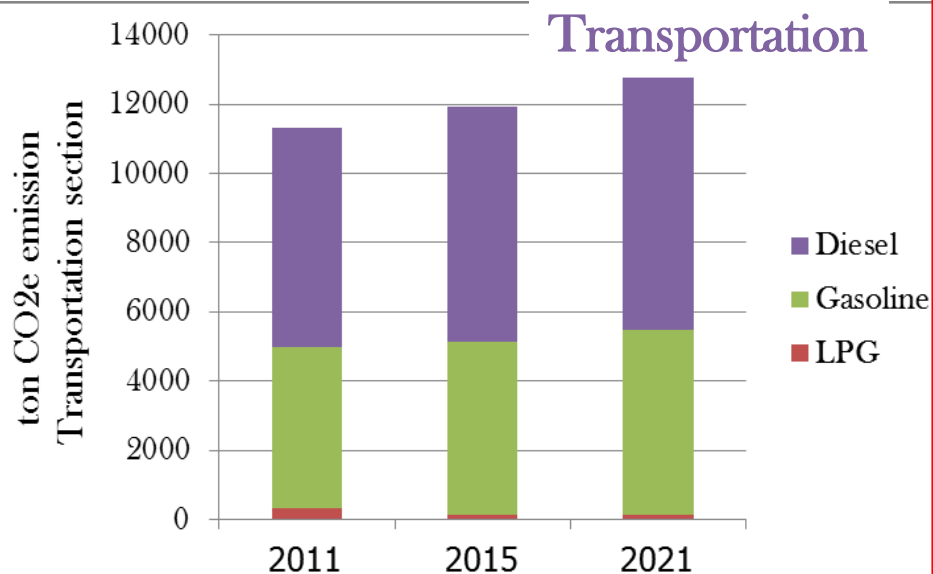
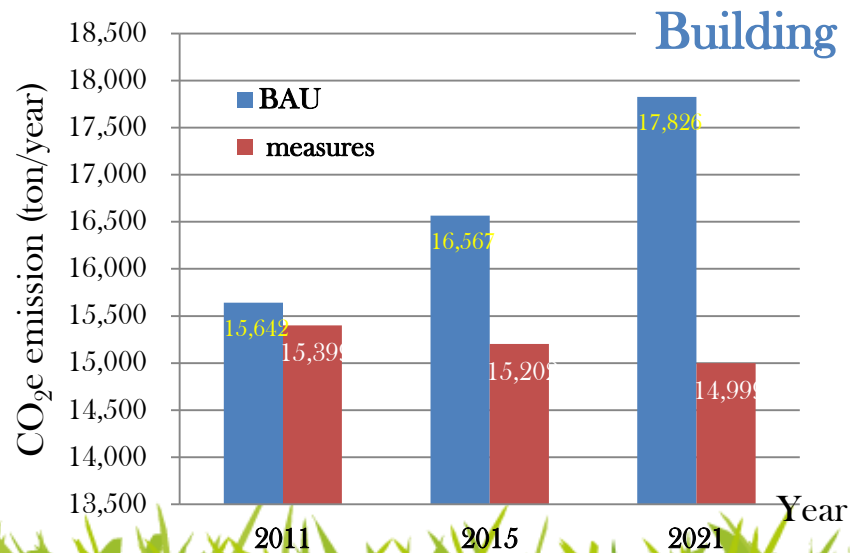
City area : 14.5 km²
Population : 17,197 people
Households : 3,309 houses
Communities : 13 villages



GHG emission 2010 of Muangklang Municipality



GHG emission trends



Muangklang City's Low Carbon Goals

Within 5 years:

Reduce 100 kg CO₂e/capita/yr (5%)

Within 10 years:

Reduce 200 kg CO₂e/capita/yr (10%)

Through 4 major mitigation measures

Energy Saving/
Energy Efficiency



Reduce Fuel Use
in Transport



Transport measures
include:

- Biofuel
- NGV
- Bicycle
- Public bus

Increase urban
greenspace



Waste
Management



Measures in Transport Sector

(identified by city's stakeholders during the brainstorming session)



Managing vehicle usage and traffic congestion

Finance

- Enhance budgets for sustainable **public transportation systems**

Public awareness

- Raise awareness to **use public transport** rather than personal cars

Management

- **Free bus service** for all routes
- Providing **street signs and timetables**

Policy

- **Improve services and promote use of public transport**
e.g. refraining large vehicles from traveling in public routes;
no parking in such routes

Local ordinance

- Adopt regulations refraining personal cars from parking on public transport routes in a form of municipal law.


Public relations

- Announce **timetables, routes and destinations through local radio**
- Creates more incentives to use public transport e.g. free public transport



Measures in Agriculture & Urban Forestry Sectors

(identified by city's stakeholders during the brainstorming session)

Measures	Actions	Entities
Financial support	<ul style="list-style-type: none"> • Provide budgets • provide seedlings 	Financial institute/ Ministry of Agriculture and Co-operative/ Private sector
Policy and measure	<ul style="list-style-type: none"> • Initiate a community reforestation program 	Municipality
Management	<ul style="list-style-type: none"> • Set up evaluation and monitoring program 	Municipality / Land owner/ Private sector/ Communities
Social awareness	<ul style="list-style-type: none"> • Raise awareness of the public & business 	School/ Communities & leaders/ Industry sector
Local ordinances	<ul style="list-style-type: none"> • Local ordinances on greenspace 	Municipality





**TGO supported
GHG mitigation activities as
requested by Muangklang
Municipality:**

- * Rice milling machine, and**
- * Waste separation belt**



Muangklang Annual festival (pictures March 2012)













Opening ceremony for “Rice Milling Machine and Station” financially supported by TGO

Rice milling machine was newly installed in order to **reduce truck transport trips for carrying locally grown rice to be milled in other provinces**. The mayor intended to promote organic rice farming, low carbon production and self-sufficiency economy.



Grand opening for Rice Milling Machine and Station supported by TGO



“Rice Milling Machine and Station” was also interested by the media

โรงสี "ข้าวแกล้ง"
องค์การบริหารจัดการก๊าซเรือนกระจก



Lessons learned : key success factors and barriers

Key success factors

- Local government leaders have understandings and political will
- Recognize co-benefits from GHG mitigation
- Communication on good practice
- Involvement of stakeholders
- Readiness of entities in charge

Barriers

- Data collection and information access (limited of information)
- Gap of understanding among stakeholders
- 'Low Carbon City model' need modification before using with others cities

See VDO of Muangklang Municipality Low Carbon City project at
http://www.tgo.or.th/index.php?option=com_content&view=article&id=427&Itemid=86



TGO's further facilitating roles and services in supporting Low Carbon City Development

Supporting Local Governments' Policy Intervention on Low Carbon City

Coordinating with Municipalities to incorporate low carbon city into their plans

GEF 5 project (LCC in 4 cities)

Capacity Building

TGO established the "Climate Change International Training Center" (CITC) to provide training and networking services to cities' stakeholders

Low Carbon City

GHG Accounting for cities

- City Carbon Footprint; and
- Carbon Footprint for Organization

Mitigation Mechanisms for Low Carbon City

MARKET MECHANISM :

Thailand Domestic Voluntary Carbon Market (T-VERs)

NON-MARKET MECHANISM:

Low Emission Supporting Scheme (LESS)

Thank you for your attention

Thailand Greenhouse Gas Management Organization (TGO)

www.tgo.or.th

