

Logistics and Transport Management System



The Institute of Industrial Energy
The Federation of Thai Industries

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Executive Committee

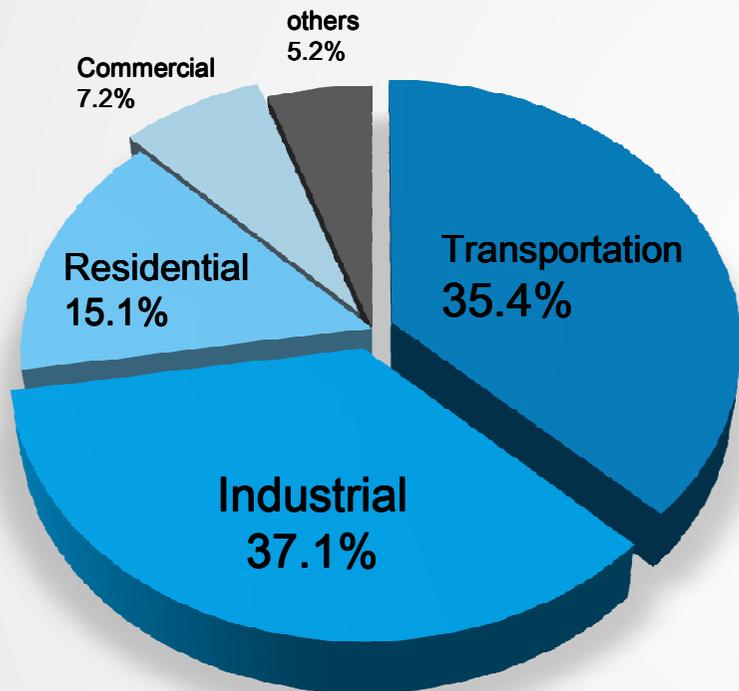
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Background



Final Energy Consumption 75,217 ktoe
Source: Ministry of Energy (2014)

Energy Problems in Road Transport



Energy consumption in Transportation sector has been increasing.



Lack of energy management system available.



Low awareness, lack of information management.

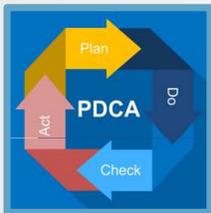


Lack of financing mechanism for improving energy efficiency.

Overview

Total Project Duration: 18 Months (January 2016 to July 2017)

Project's objectives



TEM* System

- Create and develop a Transportation Energy Management [TEM] System for road transport companies.



ECO-Drive Training

- Educate drivers about eco-driving as well as defensive drive training with the aim of reducing fuel consumption



Subsidy

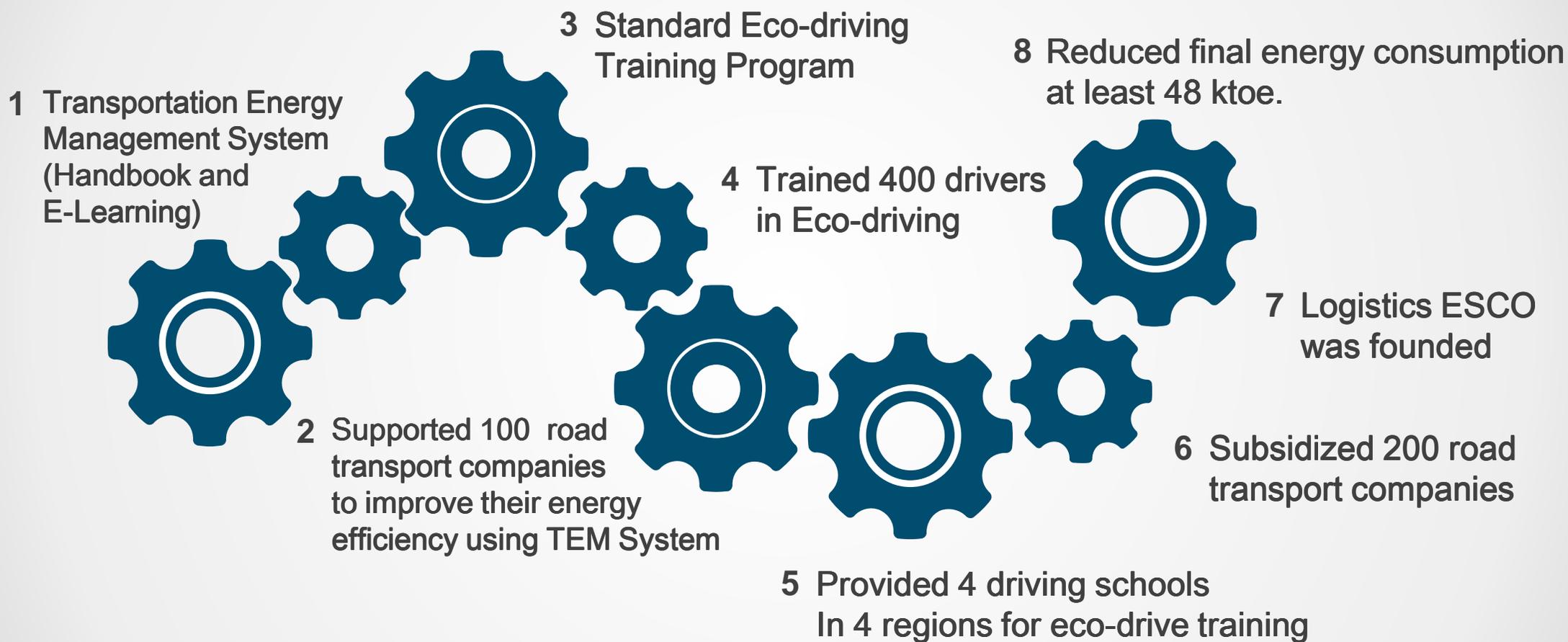
- Encourage road transport companies to improve their energy efficiency



Logistics ESCO

- Establish a ESCO mechanism in transportation sector to provide additional way to assist road transport companies reduce fuel consumption.

Project Outcome



Four-activities of implementation



TEM
System



Eco-Drive
Training



Subsidy



Logistics
ESCO

1. Transportation Energy Management System

1

Develop a Transportation Energy Management System (TEM System)
prepare awareness manual for transport companies

3

Technical Expert disseminate a TEM System to 100 road transport companies

2

Provide 30 technical experts teams helping on energy management

4

Improve TEM System
TEM System will be set up for self-study by e-learning



Transportation Energy Management System has been provided to support road transport companies an energy efficiency improvement information.

2.Eco-drive Training

In order to reduce fleet fuel consumption, we need to change employee driving behaviors to use less fuel per kilometer driven being main factor of energy consumption.

3

Arrange an Eco-driving training
for 400 drivers of road
transport companies
(4 locations x 5 classes x 20 persons)

4

**Monitor trained driver's
behavior and get feedback
via LTMA or Logbook**

1

**Develop eco-drive training
program**

eco-driving handbook and
teaching material will be also
prepared

2

**Provide driving school
for eco-drive training**

4 locations in 4 regions include
Central, North, South and North East
of Thailand



3.Subsidy

Subsidy is offered to encourage road transport companies to improve their energy efficiency. Selected companies would have subsidized to replace cost associated with deploying green technologies based on the performance of fuel saving



Transport Subsidy

has been provided for 200 companies

Performance-based Subsidy

Paid 75 baht for 1 MMBTU saving per year

Maximum subsidy

500,000 baht per company

*Energy saving will be evaluated by LTMA

**Subsidy condition may be changed

1

Submit application and project proposal

2

Selected companies improve their energy efficiency and monitor fuel saving

3

Claim for subsidy according to the condition

4

Conclusion and assess feasibility of implementing energy conservation in the future

4. Logistics ESCO



Initiate Thailand's Logistics Energy Service Companies (Logistics ESCO) as financial mechanism to provide funds or support services such as energy audits/advisory services for fuel savings measures

1 Establish rules and standards of services for Logistics ESCO

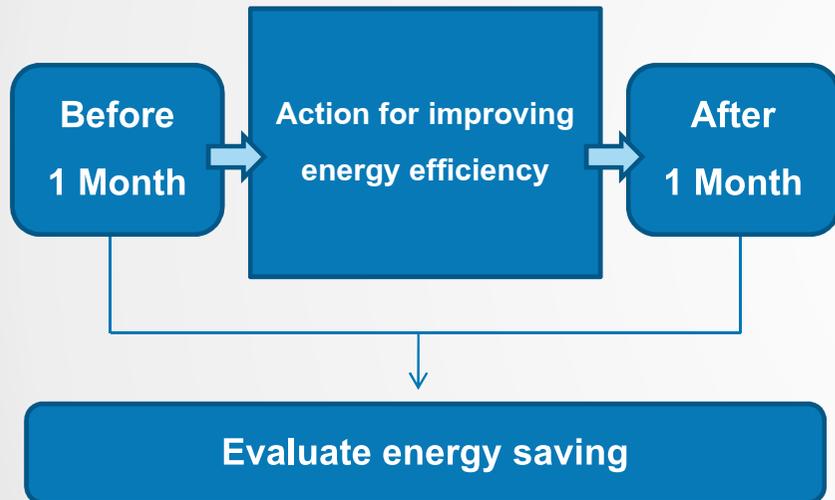
2 Logistics ESCO Registration at least 5 companies will be registered as pilot logistics ESCO

3 Test Logistics ESCO service with a road transport company

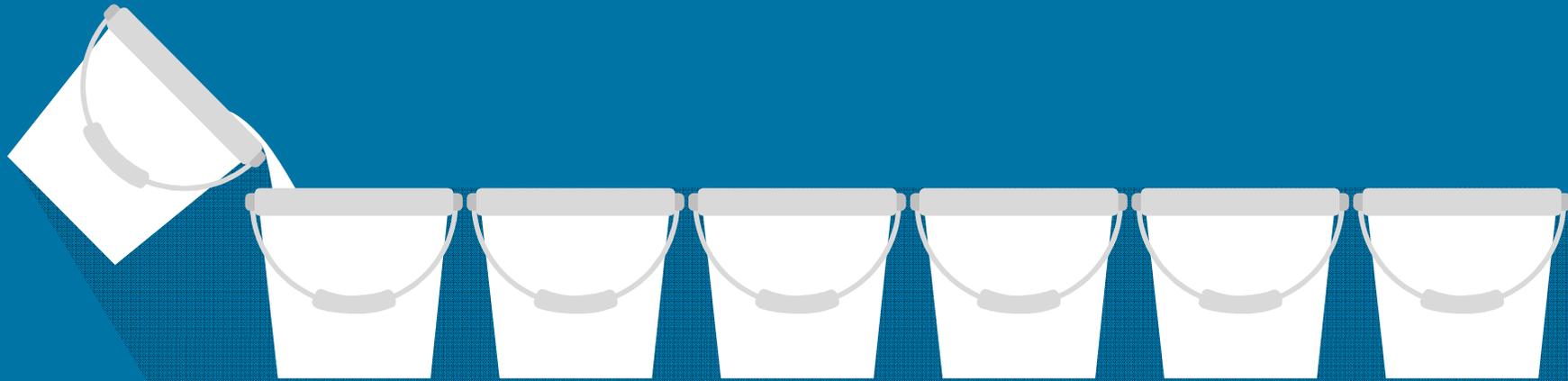
4 Logistics ESCO Promoting as part of THAI ESCO association

Energy Saving Evaluation and Tracking

Collect data by using Logbook or LTMA



In order to identify energy savings by comparing measured use before and after implementation of the activities under this project improving energy efficiency, we will be using **Logbook** or **Logistics and Transport Management Application (LTMA)** to evaluate data collected



Thank you for your attention

Q&A