

# Success factors for NAMA Development and Implementation: an experience from Thailand

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# NAMA Development in Thailand

A Study based on national energy and transport plans

- **Alternative Energy**  
Development Plan  
(AEDP) 2012- 2021

- 20 year **Energy**  
**Efficiency**  
Development Plan

- Thailand's  
Environmental  
**Sustainable**  
**Transport** Master  
Plan

**NAMA Target**

**NAMA Roadmap**

Based on national energy and transport plans Thailand will announce **NAMA target at 7-20 %** (approx. 23 – 73 Million tonCo2e)

To achieve NAMA target Thailand has developed NAMA roadmap towards 2020 with **4 measures** are being highlighted

- **Renewable energy**

- **Energy Efficiency**

- **Biofuel**

- **Transportation**

**RAC NAMA**

# Mobilization of funds for NAMA

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## **National Fund**

- ✓ National budget
- ✓ Extra-budgetary
  - ✓ ENCON Fund
  - ✓ ESCO fund
  - ✓ Environmental Fund

## **International Fund**

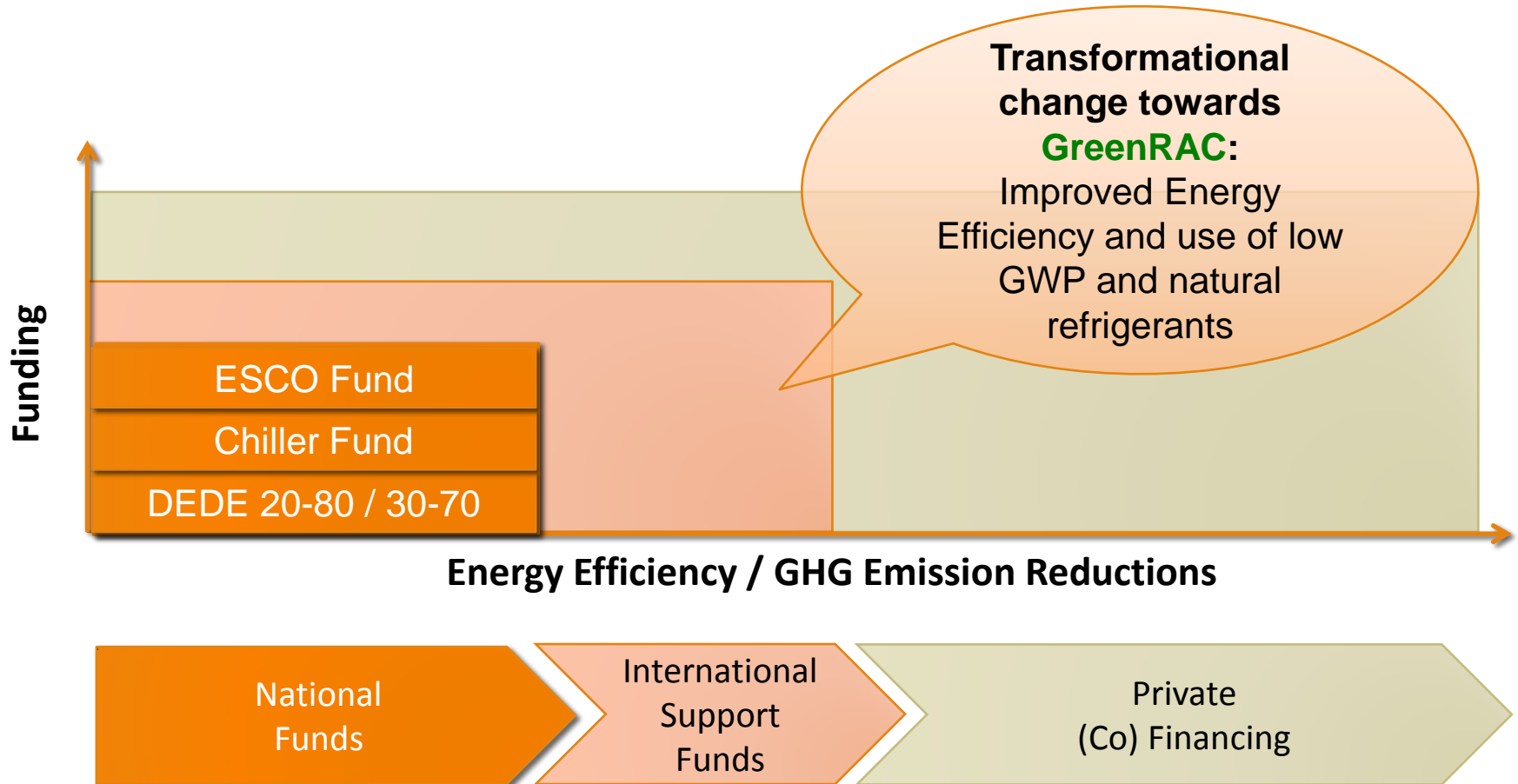
- ✓ NAMA Facility
- ✓ Green Climate Fund
- ✓ Etc.

# RAC NAMA Project Concept

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<b>Focus</b>	Energy efficiency / Climate-Friendly Resources
<b>Emission Reduction</b>	<ul style="list-style-type: none"><li>• 1.6 Mt CO<sub>2</sub>eq within the project period</li><li>• 19 Mt CO<sub>2</sub>eq considering lifetime usage of equipment</li></ul>
<b>Technical Outcome</b>	20% of RAC production lines converts to GreenRAC (low GWP and high EE) and are being deployed
<b>Financial Outcome</b>	7 times leverage of the investment support with total investment amount of over 70 million EUR.
<b>Budget</b>	15 million EUR (incl. 10 million EUR investment support)
<b>Duration</b>	5 years (2015 – 2019)

# Mobilization of funds in RAC NAMA



# Define Clear Strategy, Target and Approaches

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- ✓ The RAC NAMA was developed based on **inventories, data, market and cost-benefit analysis** of the RAC sector.
- ✓ It has **clear technological alternative solutions** for decision making process.
- ✓ It is clearly **in-line with national policies and supports** and global **market and technology trends**.

# Enhance Public-Private Cooperation & Synergies

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**All stakeholders were included** in the NAMA development process **from the start.**

- ✓ Producers, users of RAC equipment
- ✓ Maintenance service, training and research providers
- ✓ Financial service providers
- ✓ Standard and labeling institutions
- ✓ National NAMA Sub-Committee, environment, industrial, energy ministries (Government)

# Ensure Effective Steering and Coordination

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- ✓ It has **steering structures** for both the technical and the financial component of the project.
- ✓ A **multi-stakeholder fund management body** is key in order to ensure effective and efficient synergy between **private** sector investment with **national funding schemes** and **international support**.



# Define Clear Work and Finance Processes

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- ✓ The RAC NAMA has been endorsed through all main **operational and political decision making processes**.
- ✓ During implementation a **transparent, feasible and accountable funding process** is most crucial.

# Innovate Beyond Business-As-Usual

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- ✓ It triggers **transformational change** through business cases **leapfrogging** from use of artificial to natural refrigerant.
- ✓ It benefits in economic and environmental terms, and make the sector **independent from imported / licensed resources**.
- ✓ The RAC NAMA fund will also serve as a **model for funding mechanism / instrument** to finance **future NAMAs**.

# Timeframe

Time / Deadline	Activity / Event / Milestone
Jan 2015	ToR RAC NAMA Fund (local – Inter expert)
Jan 2015	Political Back up Event Concept
Jan 2015	Establish working group ( ONEP)
Jan – Feb 2015	Draft concept workplan and approach of the 3 working groups
Jan – Feb 2015	Legal framework of refrigerant (GIZ)
Feb –May 2015	Conception of RAC NAMA Fund
Apr 2015	1 <sup>st</sup> option RAC NAMA fund concept
May 2015	1 <sup>st</sup> Draft Proposal
May – Jun (half day)	Present draft workplan
Aug 2015	RAC NAMA Fund establishment (MoU, ....)
15 Aug 2015	Final draft proposal
Before 15 Sep 2015	Proposal Submission

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THANK YOU

