

# NS-198 - Thailand Refrigeration and Air Conditioning NAMA (RAC NAMA)

## Thailand

### NAMA Seeking Support for Preparation

#### A Overview

A.1 Party

Thailand

A.2 Title of Mitigation Action

Thailand Refrigeration and Air Conditioning NAMA (RAC NAMA)

A.3 Description of mitigation action

The Refrigeration and Air Conditioning (RAC) sectors account for approximately 20% of the total Thai GHG emissions. The sectoral emissions are projected to triple by 2030. Emissions are resulting from the use of high GWP refrigerants (10%) and energy consumption (90%).

There are currently no GWP limits on the refrigerants used and energy efficiency standards could be strongly improved.

The NAMA comprehensively approaches four intervention areas 1) production & sales of GreenRAC equipment, 2) use and servicing, 3) adapting the political and financial framework and 4) awareness raising on benefits and behavioural change. The NAMA will transform production and use of RAC appliances for domestic and commercial air conditioning and refrigeration.

Key stakeholders benefit and support the targeted transformation: Manufacturers produce technical advanced, sustainable and competitive products for the domestic and export market. Technicians in the service sector are employed and trained, while users will have lower energy and refrigerant bills. The private industry, both manufacturers and large end users, are a key driving force for the NAMA.

The NAMA bundles and leverages the existing financial mechanisms to promote energy efficient RAC devices through the GreenRAC Innovation Fund (GRIF). The NAMA seed funding to the GRIF is leveraged by 7-fold.

The RAC equipment introduced within the project period results in emission reductions of 19.4 Mt CO<sub>2</sub>eq over the lifetime of the equipment, an annual reduction of around 2Mt in 2020 - i.e. 0.6% of the Thai total GHG (BAU 2020), over 6.4% of total emissions or 46 Mt CO<sub>2</sub>eq against BAU 2030.

A.4 Sector

Energy supply

Residential and Commercial buildings

Transport and its Infrastructure

Industry

Forestry

A.5 Technology	<input type="checkbox"/> Agriculture
	<input type="checkbox"/> Waste management
	<input type="checkbox"/> Other <input type="text"/>
A.6 Type of action	<input type="checkbox"/> Bioenergy
	<input checked="" type="checkbox"/> Energy Efficiency
	<input type="checkbox"/> Hydropower
	<input type="checkbox"/> Wind Energy
	<input type="checkbox"/> Carbon Capture and Storage
	<input type="checkbox"/> Land fill gas collection
	<input type="checkbox"/> Other <input type="text"/>
	<input type="checkbox"/> Cleaner fuels
	<input type="checkbox"/> Geothermal Energy
	<input type="checkbox"/> Solar Energy
A.7 Greenhouse gases covered by the action	<input type="checkbox"/> Ocean Energy
	<input type="checkbox"/> Low till / No till
	<input type="checkbox"/> Project: Investment in machinery
	<input type="checkbox"/> Project: Investment in infrastructure
	<input type="checkbox"/> Project : other
	<input type="checkbox"/> Other <input type="text"/>
A.7 Greenhouse gases covered by the action	<input checked="" type="checkbox"/> CO2
	<input type="checkbox"/> N2O
	<input type="checkbox"/> PFCs
	<input type="checkbox"/> CH4
	<input checked="" type="checkbox"/> HFCs
	<input type="checkbox"/> SF6
	<input type="checkbox"/> Other <input type="text"/>

### B National Implementing Entity

B.1.0 Name	
B.1.1 Contact Person 1	Mr. Prasert Sirinapaporn
B.1.2 Address	60/1 ONEP Building, Soi Phiboonwattana 7, Rama 6 Rd., Phayathai, Bangkok 10400
B.1.3 Phone	+662 265 6650
B.1.4 Email	prahpart@yahoo.com
B.1.5 Contact Person 2	Ms. Natthanich Asvapoositkul
B.1.6 Address	60/1 ONEP Building, Soi Phiboonwattana 7, Rama 6 Rd., Phayathai, Bangkok 10400
B.1.7 Phone	+662 265 6500 ext 6783
B.1.8 Email	natthan.asv@gmail.com
B.1.9 Contact Person 3	
B.1.10 Address	
B.1.11 Phone	
B.1.12 Email	
B.1.13 Comments	

### C Expected timeframe for the preparation of the mitigation action

C.1	Number of months for completion	12
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### D Currency

D.1	Used Currency	<input type="text" value="AED"/>
		Conversion to USD: 1

### E Cost

E.1.1	Estimated full cost of preparation	110000
E.1.2	Comments on full cost of preparation	

F Support required to prepare the mitigation action

F.1.1	Amount of Financial support	55000
F.1.2	Type of required Financial support	<input checked="" type="checkbox"/> Grant <input type="checkbox"/> Loan (sovereign) <input type="checkbox"/> Loan (Private) <input type="checkbox"/> Concessional loan <input type="checkbox"/> Guarantee <input type="checkbox"/> Equity <input type="checkbox"/> Carbon finance <input type="checkbox"/> Other <input type="text"/>
F.1.3	Comments on Financial support	
F.2.1	Amount of Technical support	55000
F.2.2	Comments on Technical support	
F.3.1	Amount of capacity building support	
F.3.2	Type of required capacity building support	<input type="checkbox"/> Individual level <input type="checkbox"/> Institutional level <input type="checkbox"/> Systemic level <input type="checkbox"/> Other <input type="text"/>
F.3.3	Comments on Capacity Building support	
F.4	Financial support required	<input type="checkbox"/>
F.5	Technological support required	<input type="checkbox"/>
F.6	Capacity support required	<input type="checkbox"/>

G Relevant National Policies strategies, plans and programmes and/or other mitigation action

G.1	Relevant National Policies	National NAMA Roadmap Climate Change Master Plan Energy efficiency Plan
G.2	Link to other NAMAs	.

H Attachments

H	Attachments	<b>Title Description</b>
H.1	Attachment description	
H.2	File	<input type="text"/> <input type="button" value="Browse..."/>

I Support received

I.1	Outside the Registry	NAMA Facility (110,000 Euro)													
I.2	Within the Registry	<table border="1"> <thead> <tr> <th>Support provided</th> <th>SupportType</th> <th>Amount</th> <th>Comment</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>NAMA Facility</td> <td>Financial</td> <td>120,879</td> <td></td> <td>7/17/2015 10:40:28 AM</td> </tr> </tbody> </table>				Support provided	SupportType	Amount	Comment	Date	NAMA Facility	Financial	120,879		7/17/2015 10:40:28 AM
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