



Thai-German Programme for Enterprise Competitiveness (TG-PEC)

“Promotion of Programme of Activities (PoAs) under CDM scheme to support SMEs to implement Energy Efficiency Projects in Thailand”



Sustainable Energy Technology

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Supalerk Kanasook
Carbon Market (CDM) Project Manager
GTZ Thailand



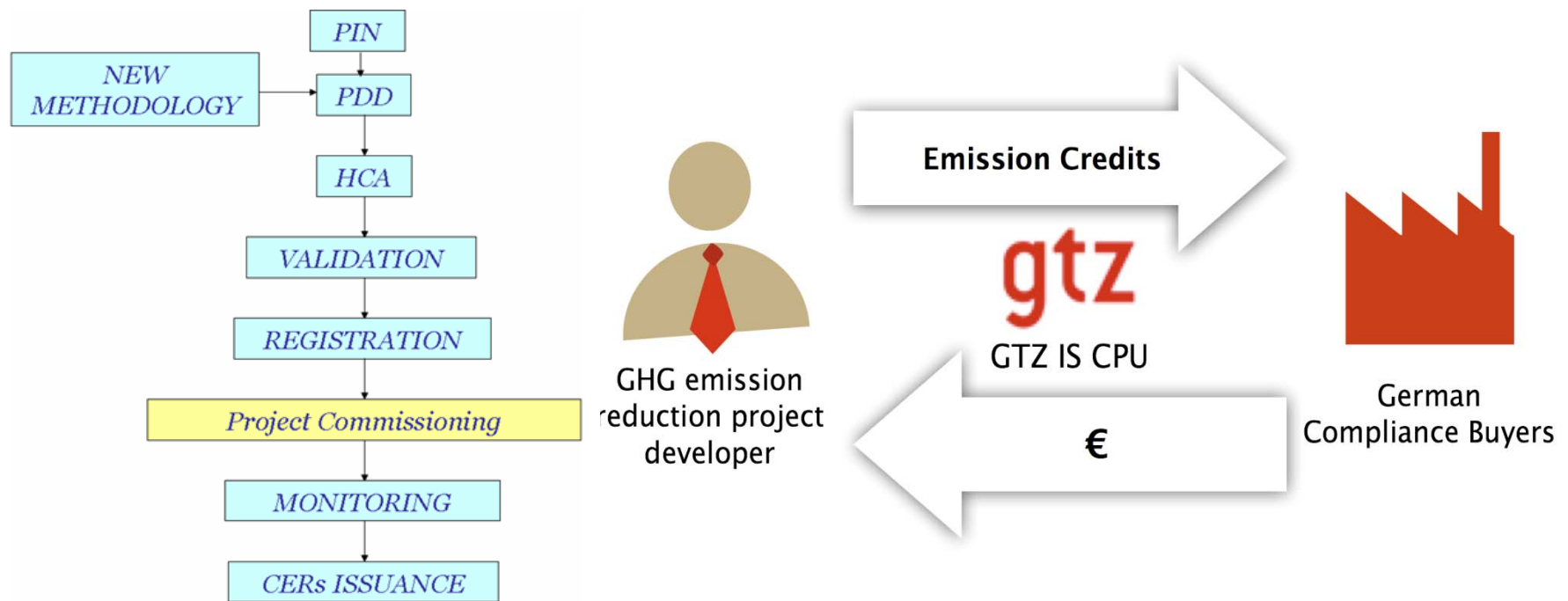
GTZ in Thailand

- Founded in 1975, GTZ (German Technical Cooperation) is the world's largest not-for-profit company
- It is owned by the German Federal Government, funded by the Federal government and delivered to over 130 partner countries with 13,000 staff worldwide
- GTZ are currently implementing on over 2,700 projects with turnover 1.2 Billion Euro(Yr2008)
- The balance, through GTZ International Services (GTZ IS), is paid for by third party clients, such as multilateral organizations and foreign partner governments
- GTZ Thailand, more than 30 years of development cooperation with Thai government, Thai institutions and the private sector and currently more than 70 staff in Thailand located in different office i.e. HQ (Lake Ratchada Building), MoNRE (PCD and ONEPP), MoI (DIW and DIP), MoE (DEDE), MoA (OAE).



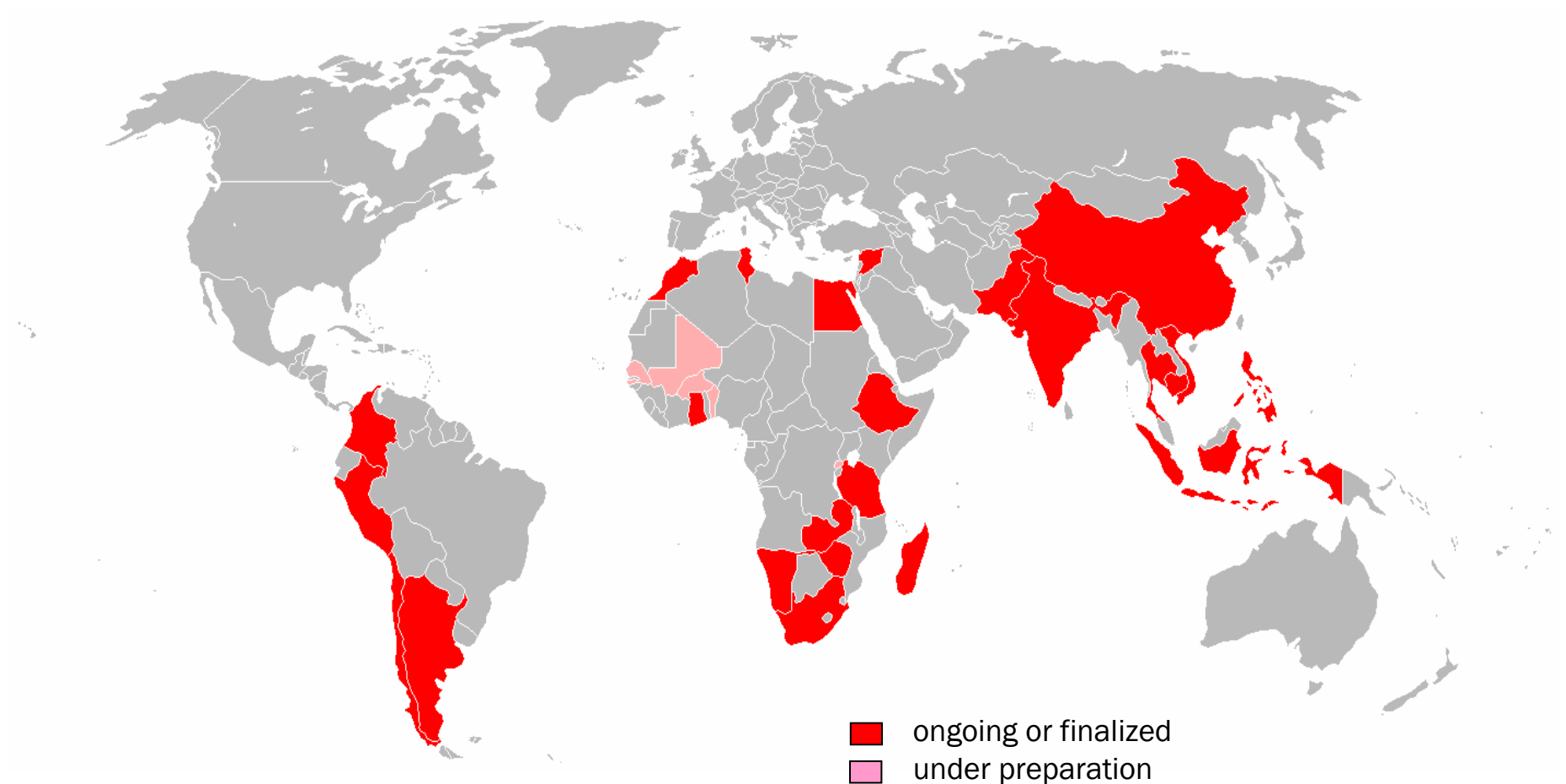
GTZ IS Operational CDM Model

- End-to-end solution including project development assistance and emission credits trading assistance
- Plain Trading (for projects already under development) focussing on emission credits trading assistance only





CDM Set up in GTZ





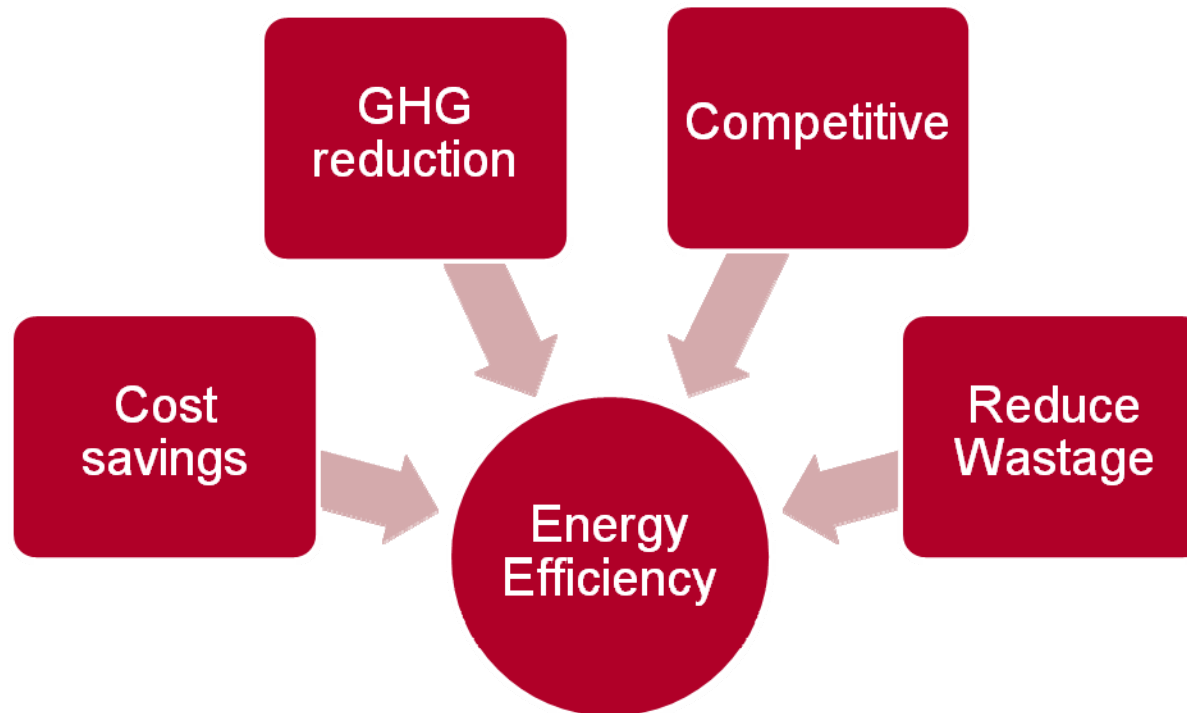
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Key Objectives of Being Energy Efficient



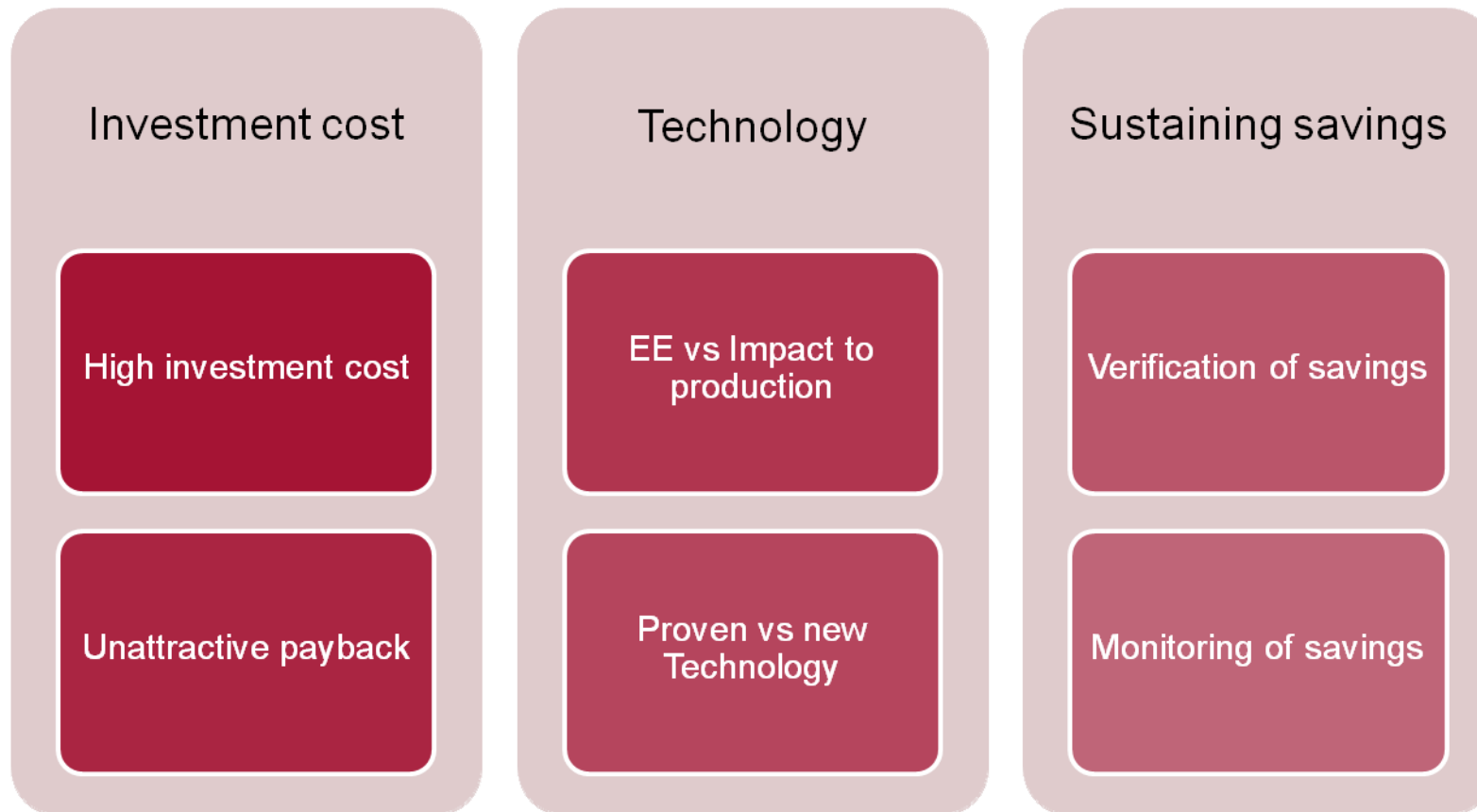


Energy Efficiency Measures and Projects

Sector	Measure	Result
Tapioca	Energy efficiency	Reduction of energy and electricity consumption
Shrimp	Energy management	Reduction of electricity consumption
	Motor efficiency	Reduction of electricity consumption
Longan	Energy efficiency	Reduction of fire wood consumption by optimized heating (drying) system
Saa Paper	Energy efficiency	Reduction of fire wood consumption by optimized boiler construction
Palm Oil	Energy efficiency	To support the crushing mills to improve their over production efficiency Palm oil mill process optimization: improve full capacity utilization of boiler and turbine.



Barriers to Implement Energy Efficiency Projects





TG-PEC: Promotion of Programme of Activities (PoA)

Objectives of TG-PEC

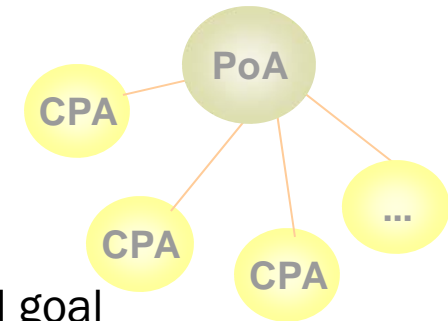
- To improve competitiveness, eco-efficiency and utilisation of renewable energies of Thai SMEs in the agro-industry
- To support SMEs in Thailand to access to financing through International Climate Change scheme.
- Increase competitiveness of SMEs
- Transfer of Energy Efficiency Technology
- Sustainable business



TG – PEC: Promotion of Programme of Activities (PoA)

Definition of PoA:

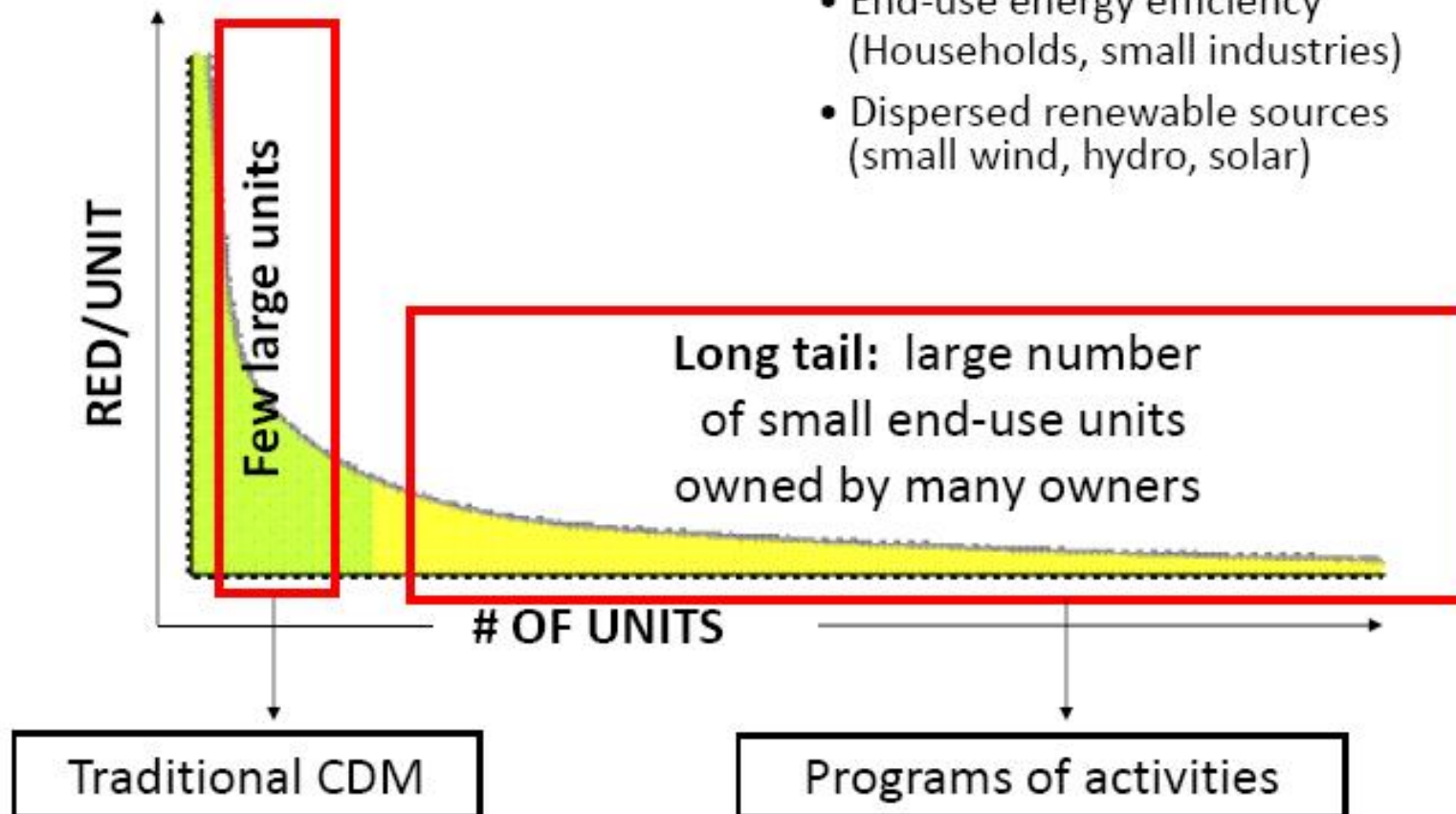
- a voluntary coordinated action
- by a private or public entity
- which coordinates and implements any policy/measure or stated goal
- which leads to GHG emission reductions
- via an unlimited number of CDM program activities (CPAs)
 - ❖ a project activity under a programme of activities,
 - ❖ a single, or a set of interrelated measure(s),
 - ❖ to reduce GHG emissions or result in net removals by sinks, applied within a designated area defined in the baseline methodology.
 - ❖ The applied AM shall define whether the CPA is undertaken in a single facility/installation/land
- The duration of the PoA not exceeding 28 years





Reason for the development of Programme of activities (PoA)

Source: ESMAP and CFU (2007)



Example

- End-use energy efficiency (Households, small industries)
- Dispersed renewable sources (small wind, hydro, solar)



Example of a PoA¹

CUIDEMOS Mexico

(Campana De Uso Inteligente De Energia Mexico) - Smart Use of Energy Mexico

- The first POA, registered in 31 July 2009
- The goal of the PoA is to transform the energy efficiency of Mexico's residential lighting through 30 million compact fluorescent lamps (CFLs) to households
- The PoA will address these consumer barriers by providing CFLs for free, resulting in mass consumer uptake and shifting residential efficiency and electricity demand.

Conti...



Example of a PoA²

- **Additionality**

- **Financial**

- The PoA will involve consumers being provided CFLs free of charge up to four CFLs.

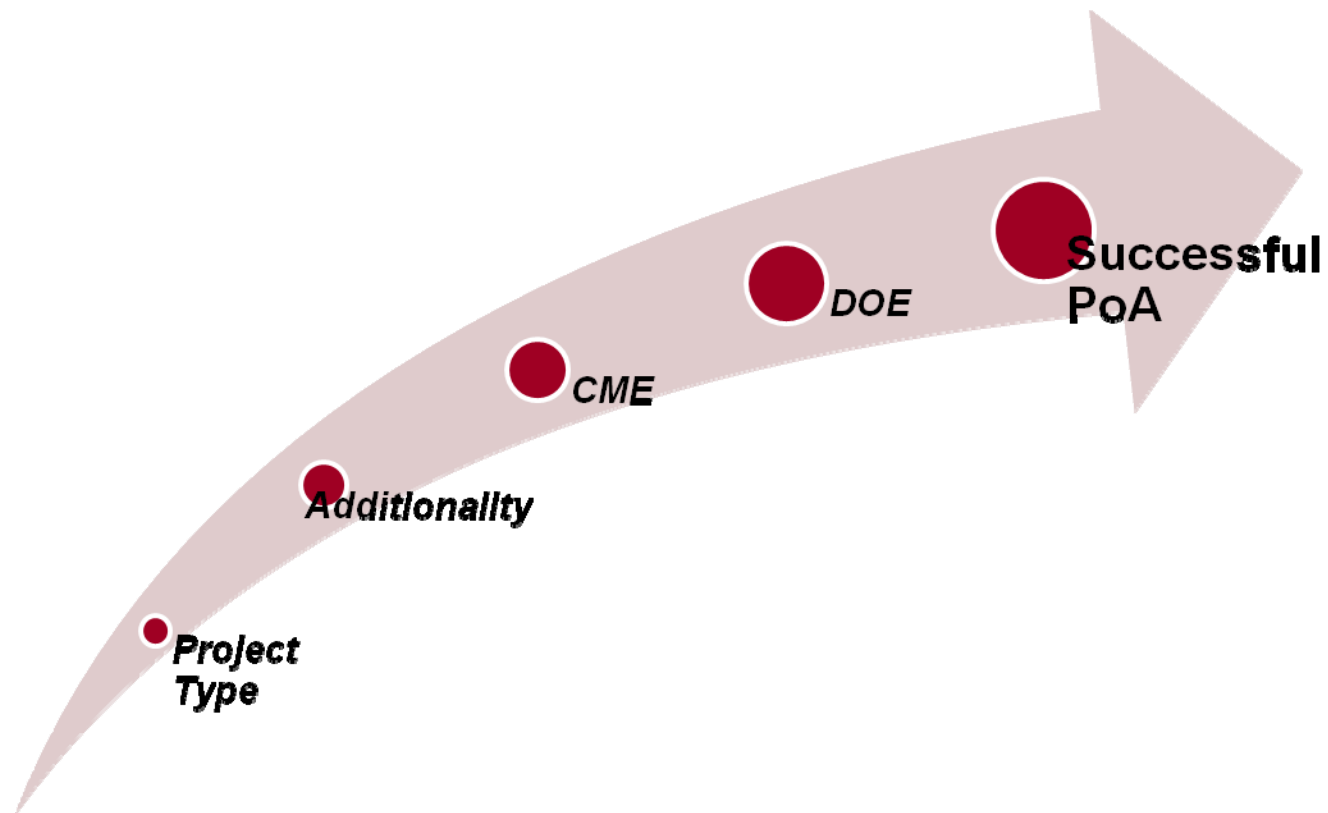
- A simple cost analysis is applied as the project proponent's perspective there are no financial or economic benefits other than CDM related income

- **Barriers analysis**

- In the context of residential energy efficient lighting, it is apparent that inadequate access to capital, isolation from price signals, information asymmetry and split-incentives.



Factors for successful PoA





Partnership



กรมโรงงานอุตสาหกรรม
DEPARTMENT OF INDUSTRIAL WORKS





Further information about TG-PEC PoA Programme

Mr. Supalerk Kanasook

Project Manager

Carbon Market (CDM)

GTZ Thailand

Telephone: 0-2298-6335

Fax: 0-2298-2629

Mobile: 08-1750-1980

E-mail: supalerk.kanasook@gtz.de

Website: www.thai-german-cooperation.info



Thank You
for your kind attention

