



# Workshop on Simply GHG Accounting and Evaluating for Industry

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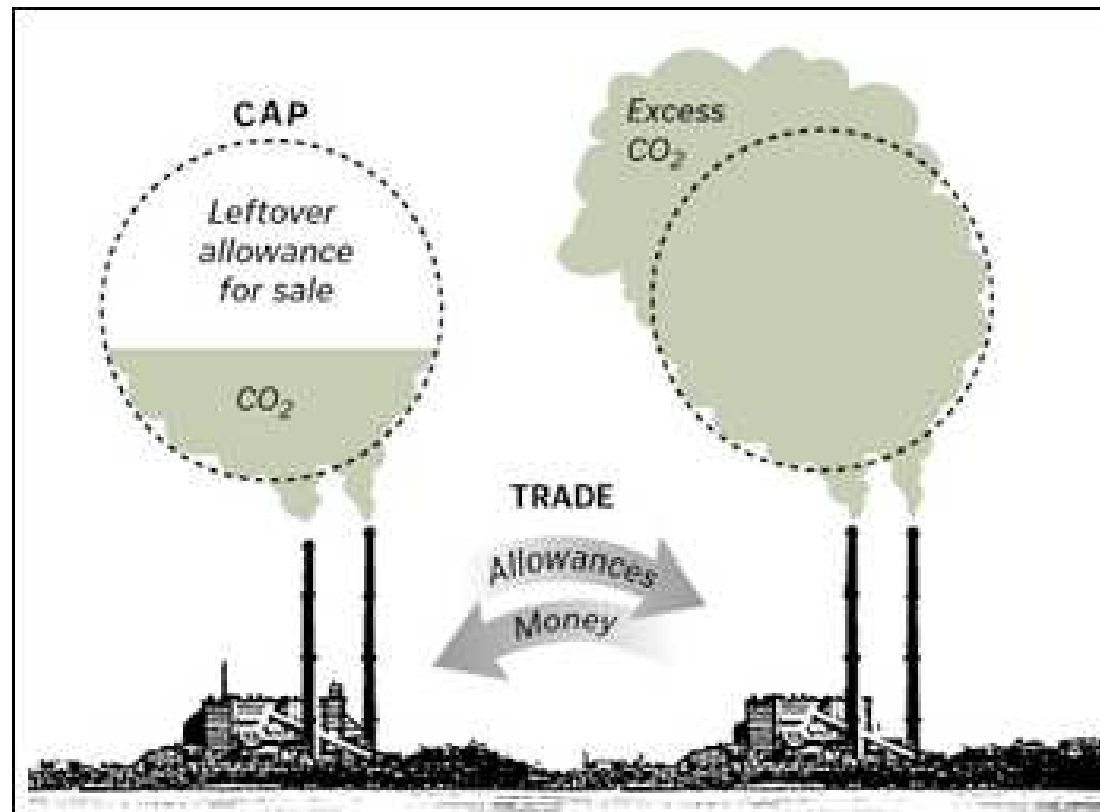


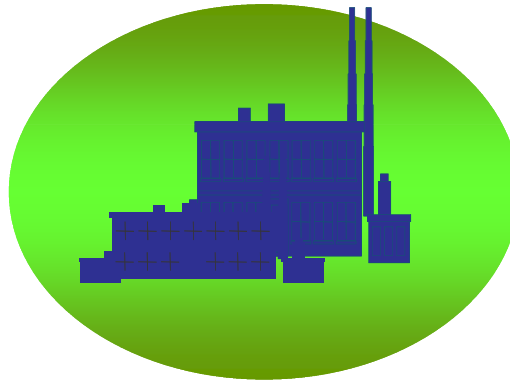
# การประชุมเชิงปฏิบัติการเรื่องการประเมิน ปริมาณก๊าซเรือนกระจกจากโรงงาน อุตสาหกรรมอย่างง่าย

วันศุกร์ที่ 30 กรกฎาคม 2553  
นิคมอุตสาหกรรมบางปู

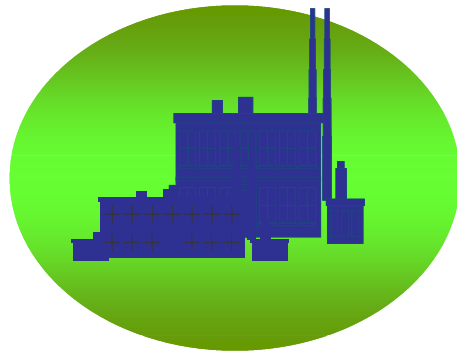
องค์การบริหารจัดการก๊าซเรือนกระจก (มหาชน)  
การนิคมอุตสาหกรรมแห่งประเทศไทย  
มหาวิทยาลัยมหิดล

# Voluntary Carbon Market in IE of Thailand Project

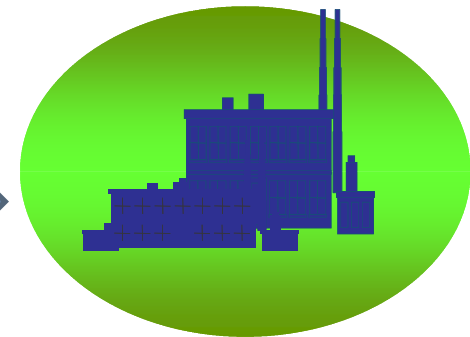




Bangpoo IE  
factories



Bangplee IE  
2 factories



Lardkrabang IE  
factories

## Objectives of the Project

- Know the existing GHG emissions from factories, which were located in selected IE
- Voluntary emission reduction network
- Feasibility study of CDM



## Expected Outcomes of the Project

- Existing GHG emissions reporting
- VER network for further activities, such as voluntary carbon market or emission trading
- Suggestion on development of CDM



# Methodology

Selected Company



GHG accounting & reporting



GHG source analysis



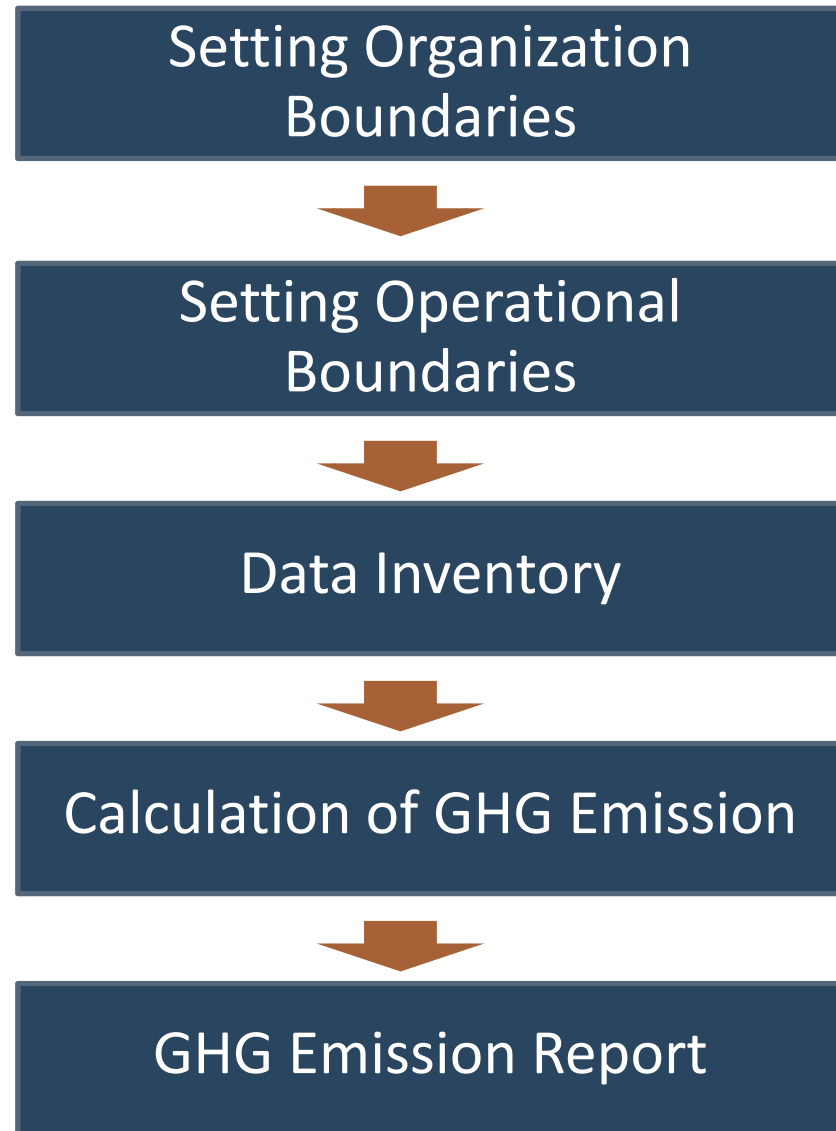
Suggestion of GHG reduction at sources



Feasibility study of CDM







Simply Step for GHG Accounting and Reporting

Re-assessment

## Setting Organization Boundaries

- **Equity Share Approach**

a company accounts for GHG emissions from operations according to its share of equity in the operation.

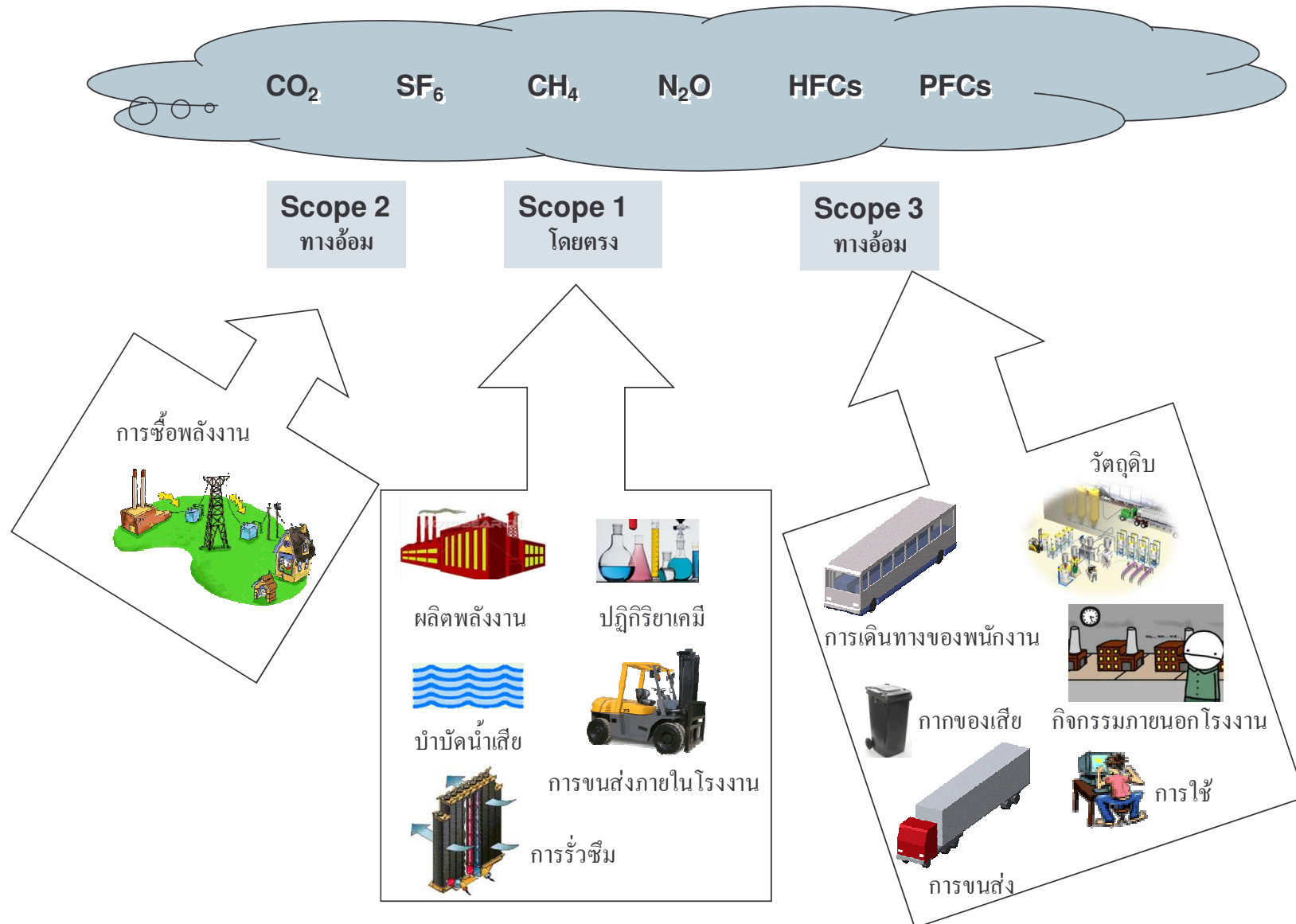
- **Control Approach**

a company accounts for 100 percent of the GHG emissions from operations over which it has control.

- Financial Control

- Operational Control

# Setting Operational Boundaries



# Data Inventory

- **Stationary combustion:** combustion of fuels in stationary equipment such as boiler, furnaces, heaters, engines
- **Mobile combustion:** combustion of fuels in transportation devices such as automobiles, trucks, trains, ships
- **Process emission:** emissions from physical or chemical processes
- **Fugitive emissions:** intentional and unintentional release such as equipment leaks from joints, seals and gasket

# Calculation of GHG Emission

- **Cross Sector Tool:** can applied to many different sectors; stationary combustion, mobile combustion, and HFC use in refrigeration and air conditioning
- **Sector-Specific Tools:** e.g. aluminum, iron and steel, cement etc.

## GHG Emission Report

Organization Profile

System Boundaries

GHG Inventory Data

Methodological Information

GHG Emission

Contact Person

# Calculation of GHG Emission

## Simple Practice for GHG Emission of Industry

- Simple calculation of GHG emission following scope 1 and scope 2
- Major indicator are energy, transportation, physical or chemical reaction, and fugitive emission

## GHG Accounting and Reporting (WBCSD Guideline)

- Setting the Organization Boundaries
- Setting the Operational Boundaries
  - Scope 1: Direct GHG Emissions
  - Scope 2: GHG Emissions from import of electricity, heat, or steam
- Data Collection
- Calculation of GHG Emissions
- GHG Reporting



## Sources of GHG Emission

- Existing GHG Emission from Factory
- Scope 1: Direct GHG Emissions
  - Production of electricity, heat, or steam
  - Physical and chemical processing
  - Transportation
  - Fugitive emissions
- Scope 2: GHG Emissions from import of electricity, heat, or steam

# SAVE THE EARTH BY GHG REDUCTION

