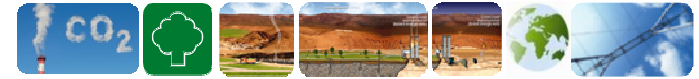




An environmental hazard becomes green power



What we do



## 1. The Kyoto Protocol (1997, starting year: 2005)

The objective is to achieve "stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system."

Tools:

- binding commitments for the reduction of six identified greenhouse gases (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>)
- Flexible Mechanisms: JI (Joint Implementation) and CDM (Clean Development Mechanism) to enable « developed countries » to buy credits produced in « developing countries »
- UNFCCC: United Nations Framework Convention on Climate Change

## 2. The carbon credits market

- A "Cap and Trade" regime: The developed countries have their total CO<sub>2</sub> emissions capped; they can use carbon credits from "developing countries" (CERs) to reach their Kyoto targets
- Several market exchanges: EU ETS in Europe, Australian and Japanese ETS, ...
- The voluntary markets: RGGI in the US,...

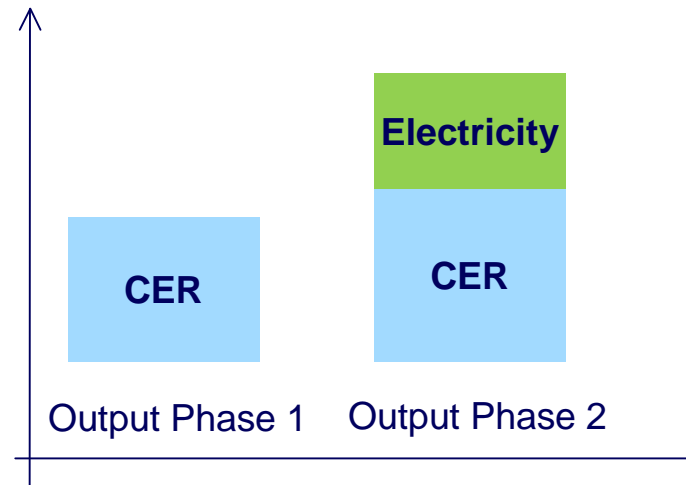


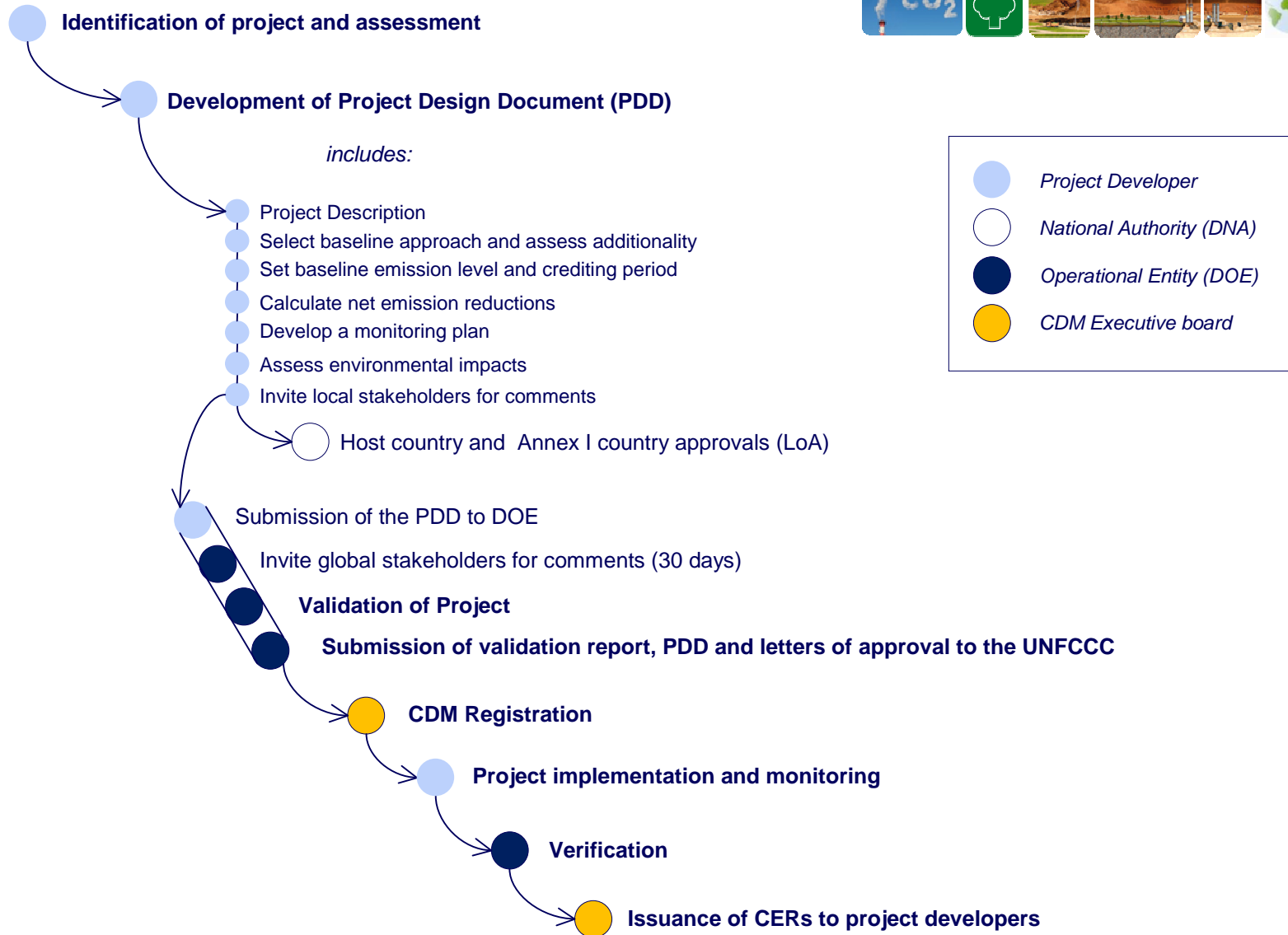
## 1. Landfill gas recovery

- Biogas contains 50% CH<sub>4</sub>
- 1 ton CH<sub>4</sub> = 21 tons CO<sub>2</sub>

## 2. CDM

- Destroy CO<sub>2</sub> → Receive CER (Certified Emissions Reductions)
- CER is not a subsidy
- 2 sources of revenue:



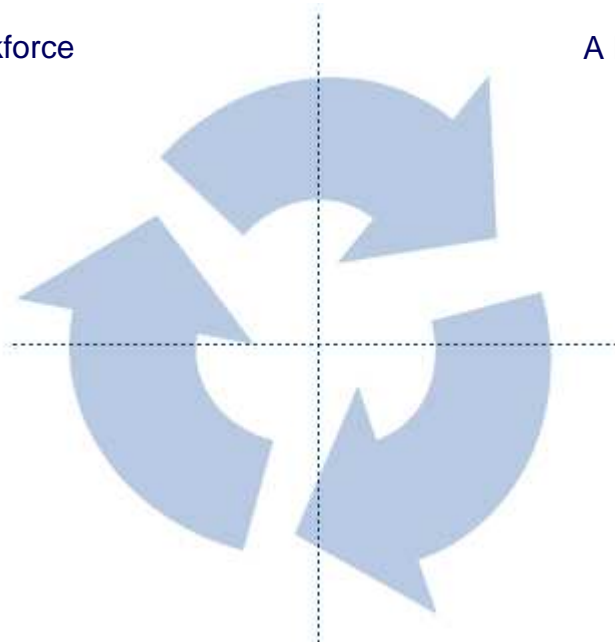




An integrated value chain: from landfill to carbon exchanges

A wide commercial taskforce

A landfill gas specialist



A dedicated team for CDM registration and carbon finance



## 1. Focus

- 1 project activity
- 1 production mode
- 1 objective: CER

## 2. Scalable model

- Simple duplication of technical installations for significant economies of scale
- Easy to set up and monitor

## 3. Low competition

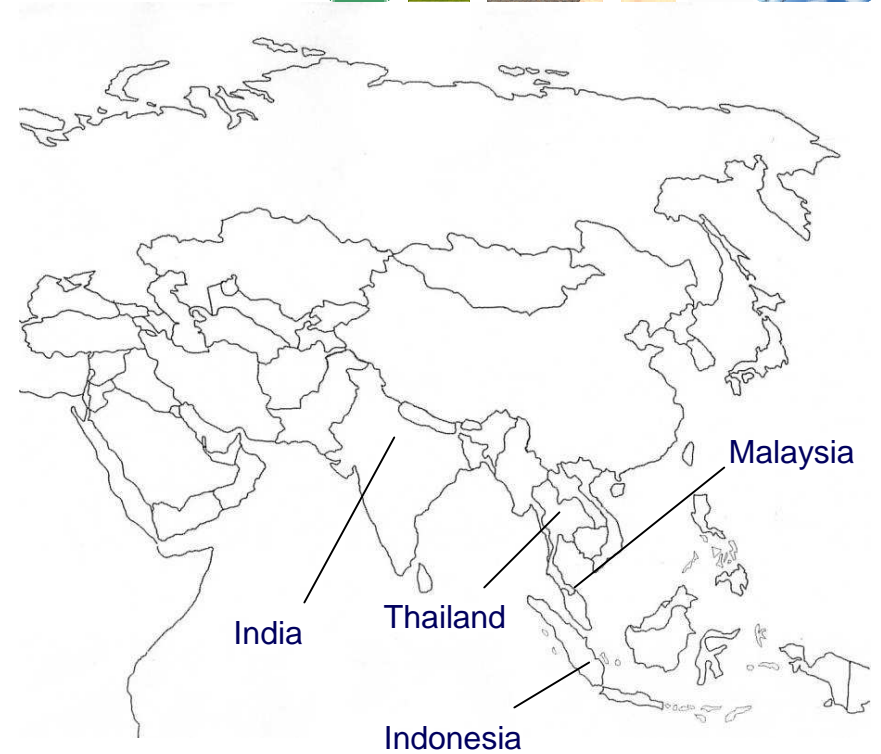
- Large companies (e.g. Sindicatum, Ecosecurities, Veolia...) focus on big landfill sites vs. Bionersis targets medium-sized landfill
- Medium companies: no integration
- Small companies: lack of experience and credibility

## 4. Low risk

- Limited cost: investment, overheads, R&D
- Proved technology
- Multiple sites: 2 continents, 10 countries



7 landfill sites registered  
6 landfill sites under validation





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