Second National Forum on Climate Change Cambodia 3-5 October 2011

Angkor Bio Cogen Rice Husk Power Project

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Angkor Bio Cogen Co., Ltd.

Project Details

2 MW. Power plant

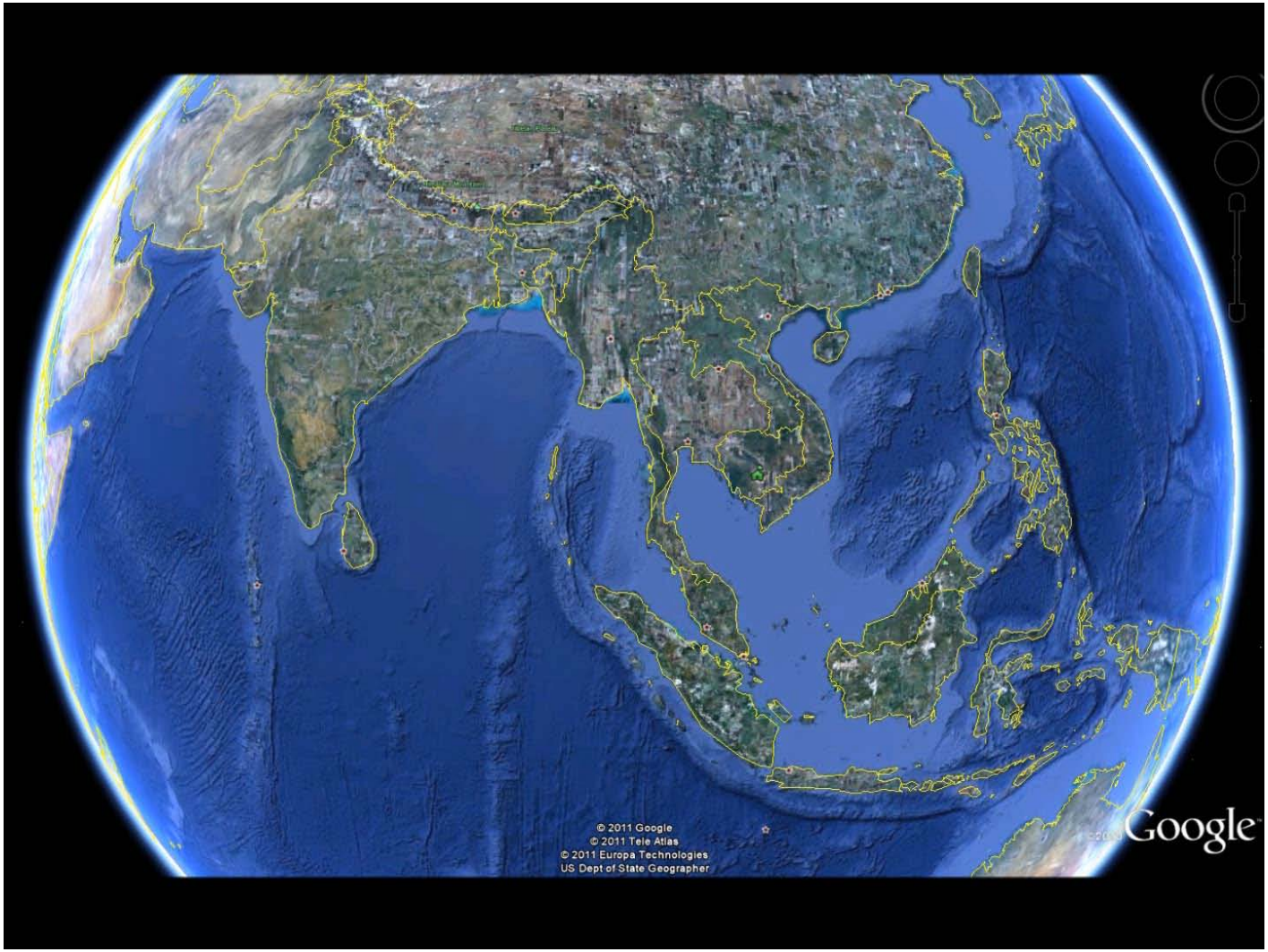
Generate electricity using rice husk that produced from a rice mill and sell the power back to the mill.

CDM activity (1)

The Project will avoid methane emissions that would be produced from rice husk left to decay in the absence of the Project.

CDM activity (2)

The Project also displace the use of diesel oil for power generation at the rice mill.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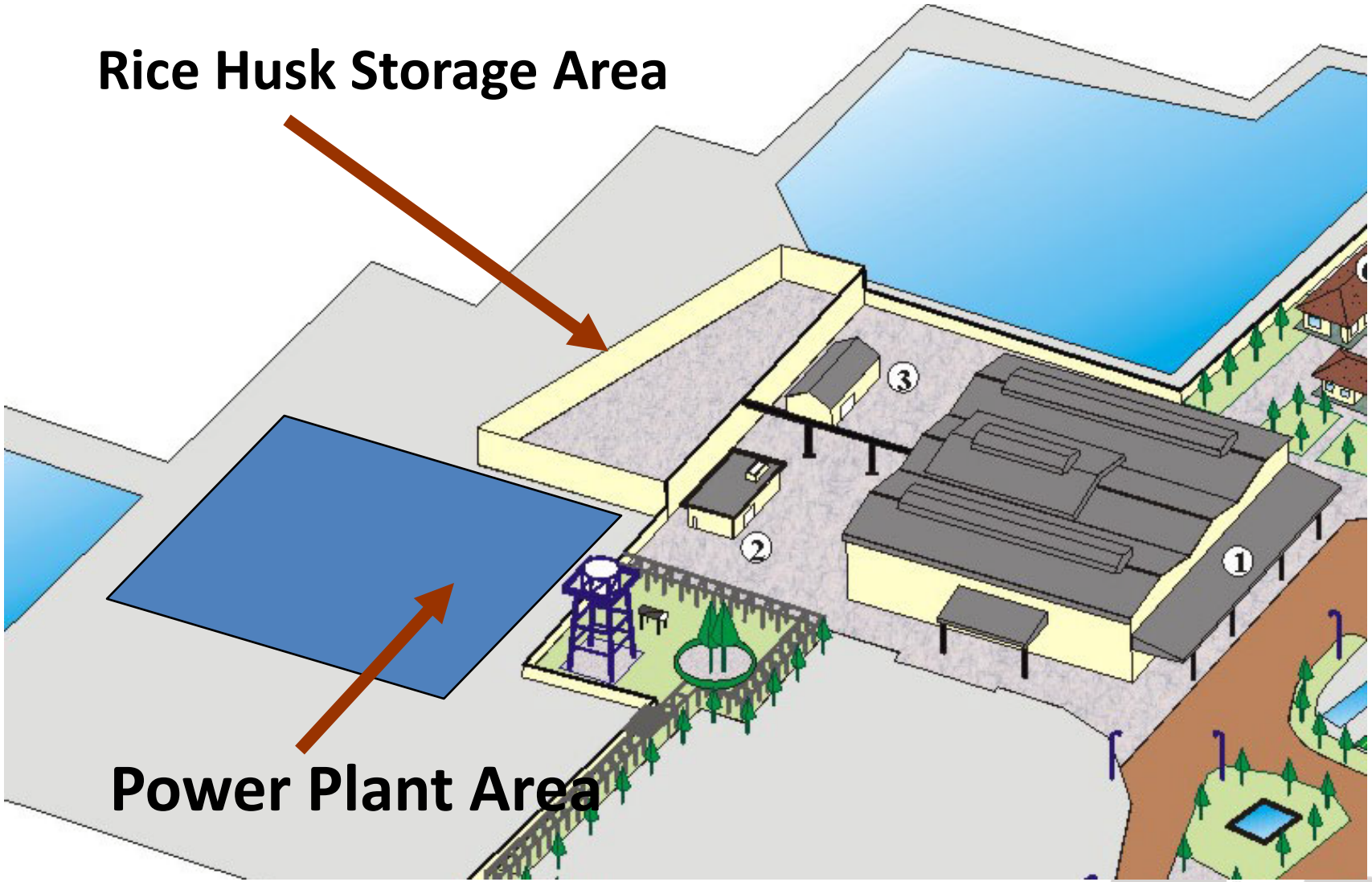
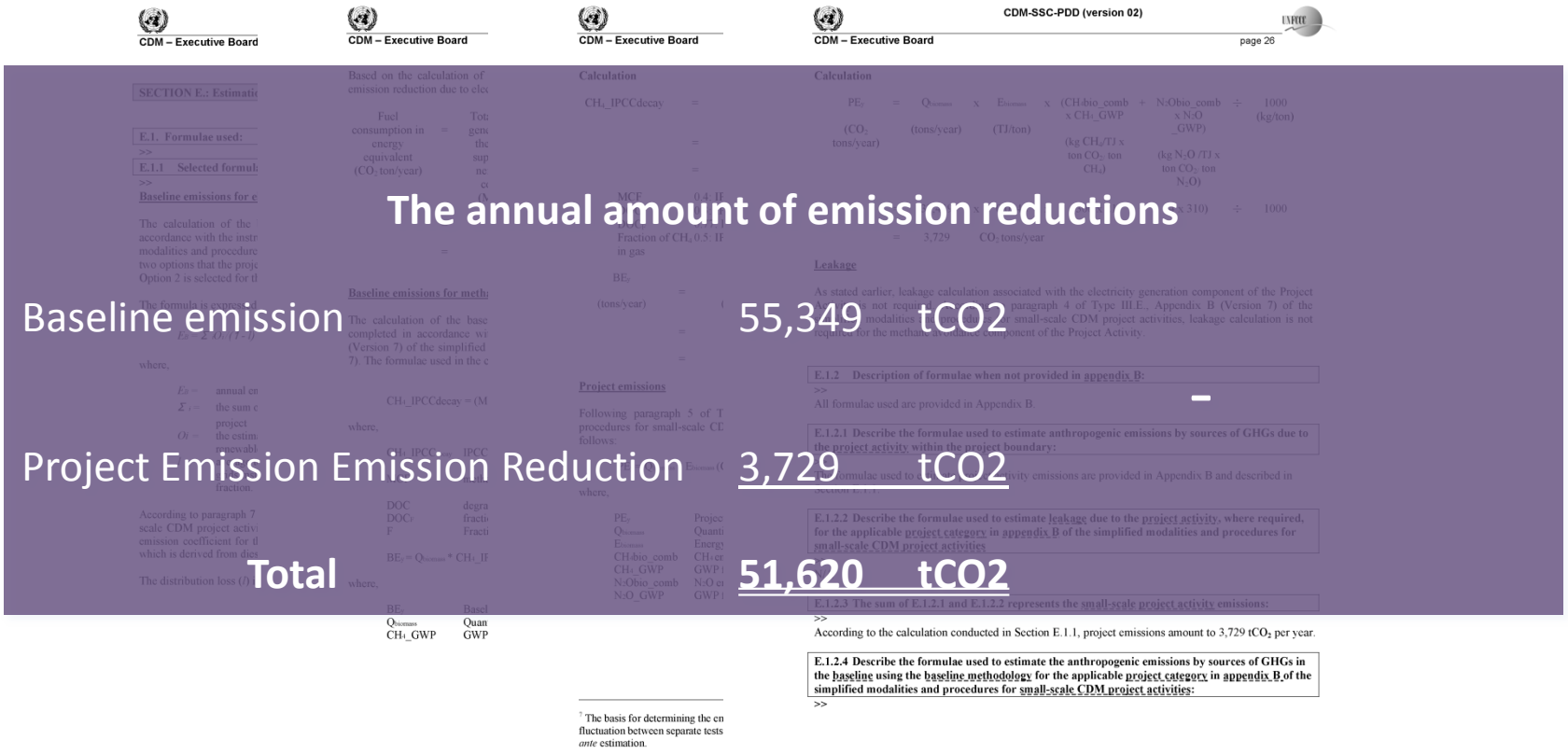
Location


Rice Husk Storage Area
Power Plant Area
1
2
3

CDM details


CDM – Executive Board
CDM – Executive Board
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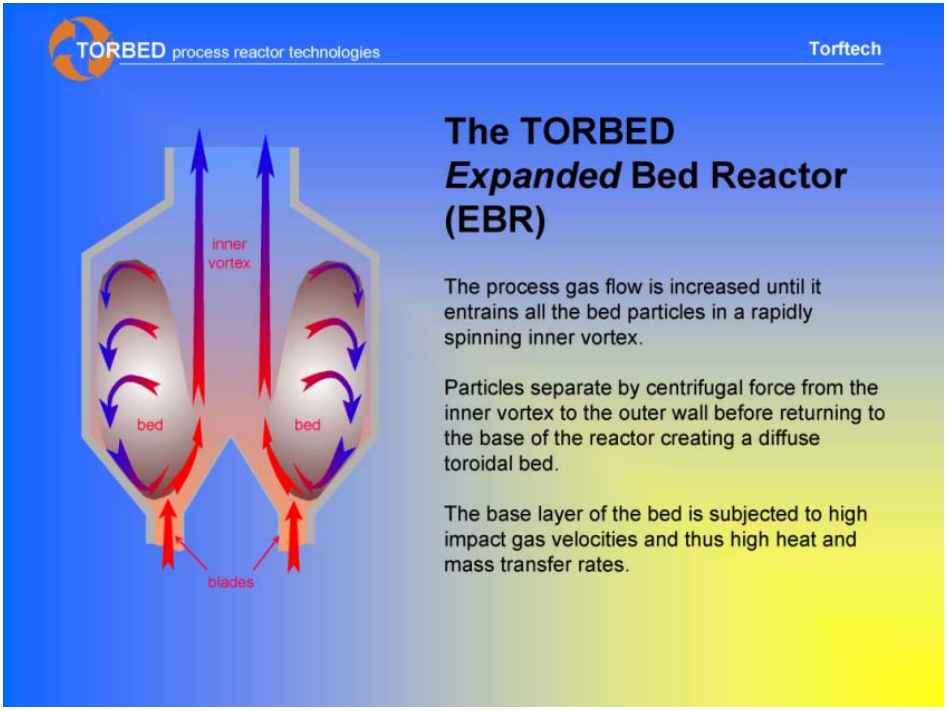
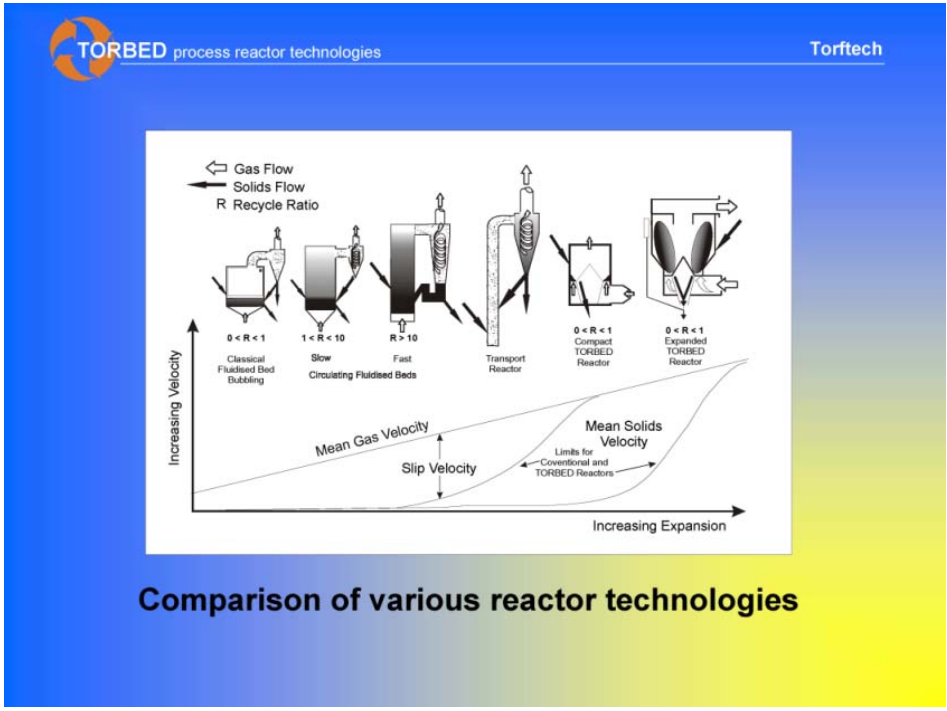
CDM – Executive Board
CDM-SSC-PDD (version 02)
page 26
The annual amount of emission reductions
Baseline emission 55,349 tCO2
Project Emission Emission Reduction 3,729 tCO2
Total 51,620 tCO2

Status and Challenges – Video clip of the construction from the start to now.

Main features of the project

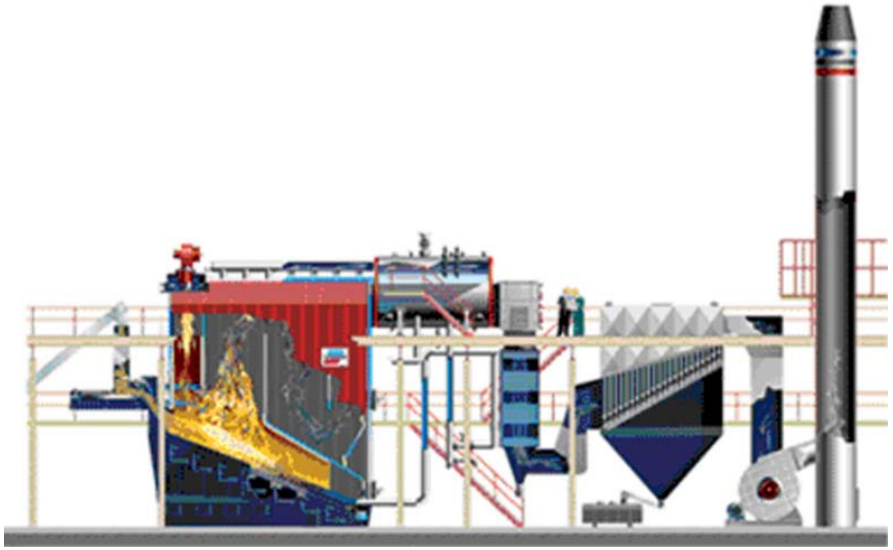
The first time in the world using the TORBED technology to burn the rice husk. As a result, a complete burning of the husk will turn them into amorphous silica.

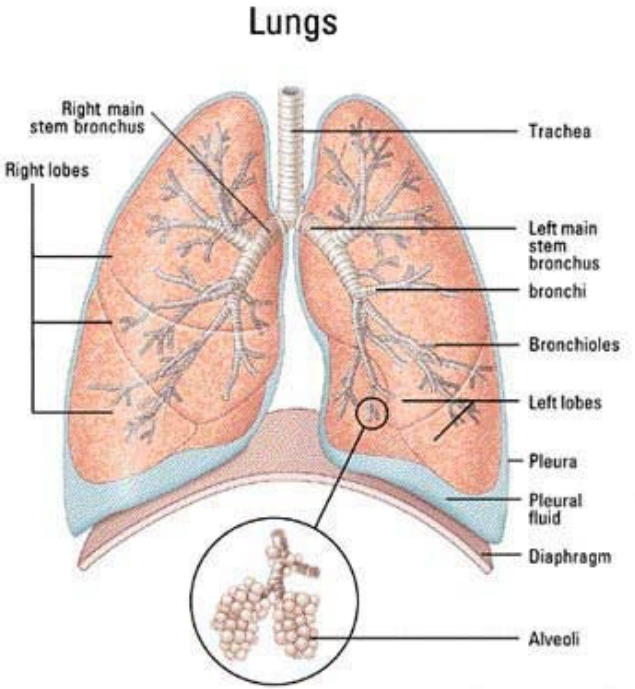




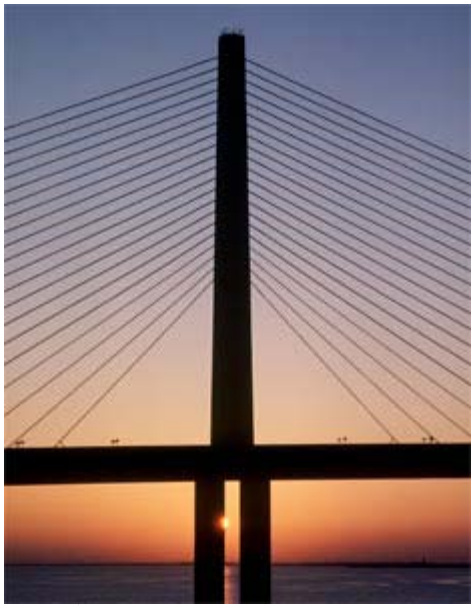
Note:

crystallite ash is usually produced by other typical rice husk reactors used in the region. Crystallite ash could cause lung problem among the workers.





Amorphous silica ash is also an important ingredient to produce high strength concrete.

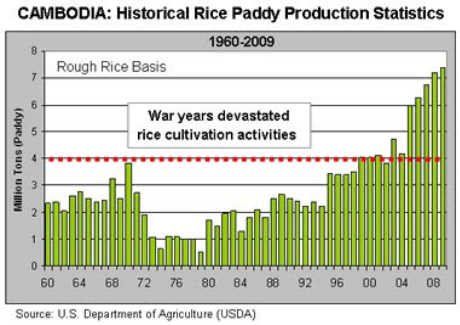


Merits

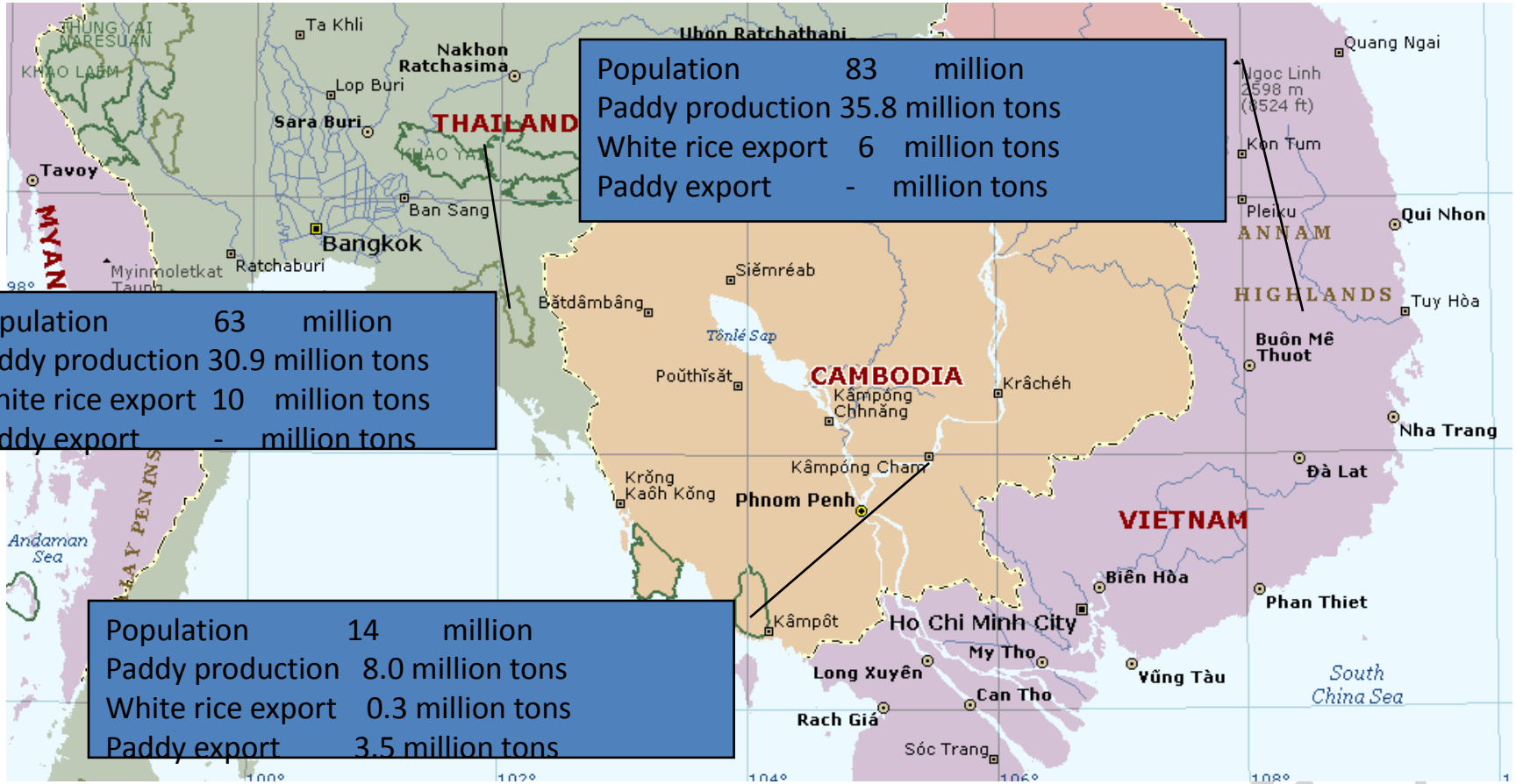
Technological breakthrough




Indirect benefits goes to the rice industry in Cambodia which at the moment has higher operating costs than other neighboring countries (e.g. Thailand, Vietnam)


Comparison among 3 countries



Estimated figures.

Recommendations on CDM rules

1. Flexibility of the verification

   - ❑ since a plant might have some minor details different from its original PDD.

2. More flexibility on start of the crediting period (e.g. allowing to change the start of the crediting period more than one time)

   - ❑ a project might face unforeseen difficulties from the delay of construction or commissioning.

THANK YOU !

For more information:

http://www.angkorrice.com/abc.htm