

JCM PROJECTS IN AGRICULTURAL SECTOR

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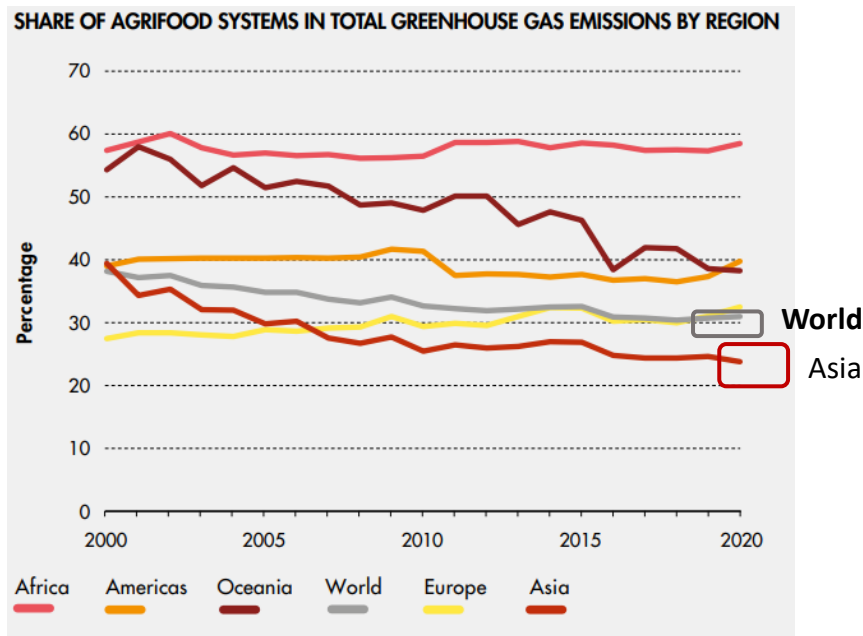
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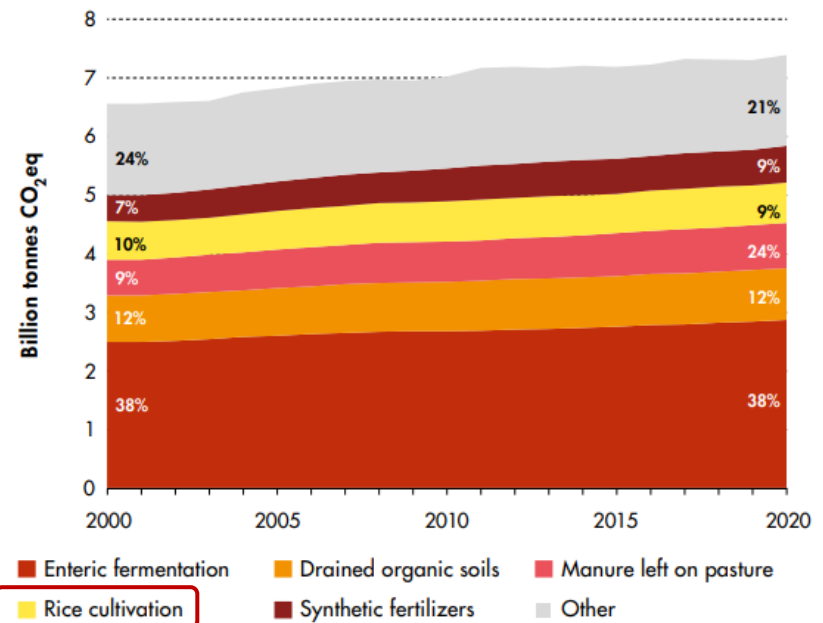
Why Agri-food systems are so important?

Around 31% of global anthropogenic emissions are generated from agri-food systems. (54 billion t (CO₂eq), of which 17 billion t CO₂eq)

Methane released from rice paddies is 9 to 10 % of farm-gate emissions in the world, and over 20% in Asia.



WORLD FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY



MAFFJ's Newly Launched Project to promote JCM in Agriculture

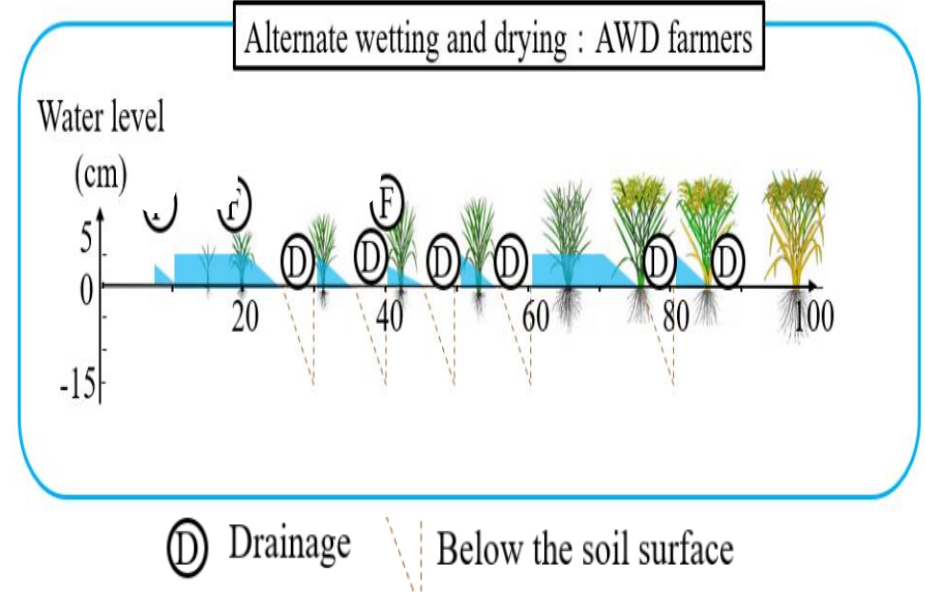
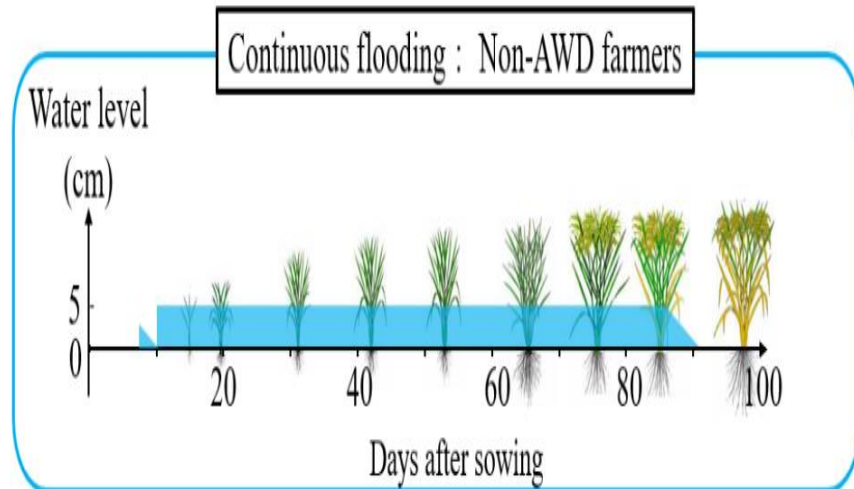
➤ Fossil fuel based GHG reduction project
(on track)

➤ Non-fossil fuel based GHG reduction project
(NEW)



In cooperation with Asian Development Bank,
MAFFJ launched a project on JCM **in agriculture.**

GHG Emission Reduction from Rice Paddies by Alternate Wetting and Drying (AWD)



“Alternate Wetting and Drying” can **reduce about 30% of GHG emissions from rice fields** in general* and will be a significant solution in a wide area in the Asia-Monsoon region.

*Ai LEON and Taro IZUMI, JIRCAS, “Impacts of alternate wetting and drying on rice farmers’ profits and life cycle greenhouse gas emissions in An Giang Province in Vietnam” Journal of Cleaner Production, Volume 354, 2022

If partner countries implement AWD in 50% of their Rice Paddies ? - Estimation

Partner Country	Reported GHG emission from rice paddy field (t-CO2)	Potential GHG reduction (t-CO2)	Scenario 1 Potential Economic Benefits (thousand USD/Year)	Scenario 2 Potential Economic Benefits (thousand USD/Year)
Vietnam	44,294,600	6,644,190	58,535	110,579
Philippines	16,436,910	2,465,537	21,721	41,033
Thailand	52,763,250	7,914,488	69,727	131,721
Cambodia	NA	10,720,000	94,443	178,413

Estimated by Agri-JCM project team, MAFFJ

*Scenario 1: all the issued credits were sold at market price (8.81USD/t-CO2).

*Scenario 2: 30% of issued credits were allocated to the partner country and sold at market price above, and 70% were to Japan and sold at USD20/t-CO2.



JCM in Agriculture can achieve 3 goals:

- *GHG emission reduction*
- *Increase in farmers income*
- *Implementation of climate-smart technologies*

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