

ALTERNATE WETTING AND DRYING

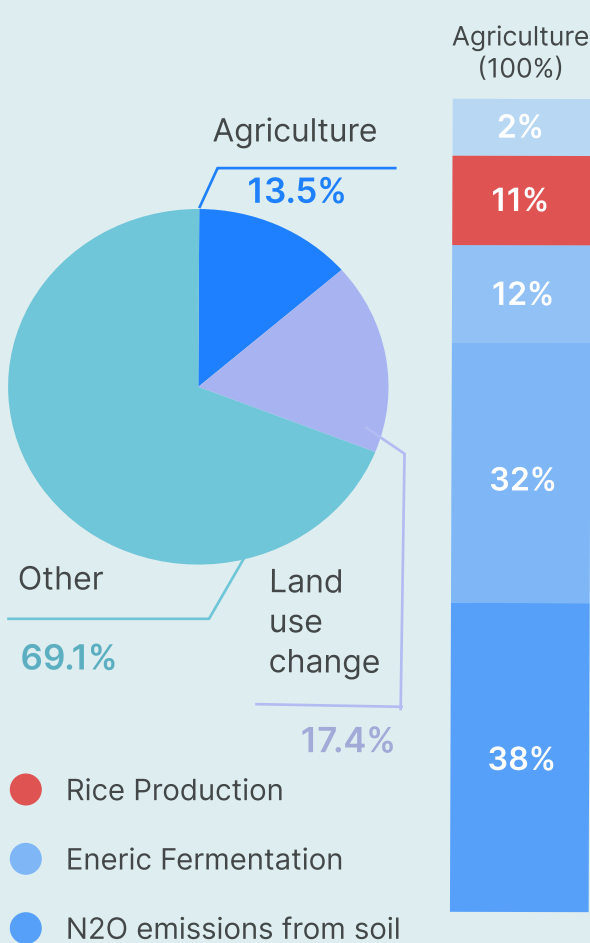
AWD What is AWD?

A method of repeatedly watering and draining rice fields in the growing season. It is an efficient way to reduce water usage and methane emissions when growing crops by periodically adjusting the moisture in the soil.

WHY IS AWD IMPORTANT?

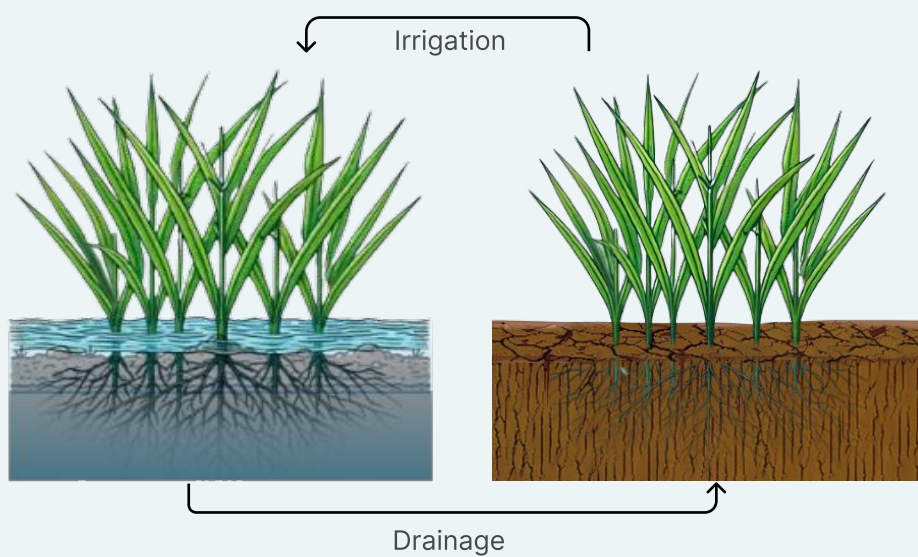
Globally, 13.5% of greenhouse gas (GHG) emissions come from the agricultural sector.

Flooded rice growing systems emit methane (CH₄) gas, which is dozens of times more potent than carbon dioxide. One third of the world's fresh water is used to grow rice.



Source: IPCC (2007)

HOW DOES AWD WORK?



We drain the water at ineffective tillering stage, and again when the rice is ripe. In addition to reducing methane and conserving water, this also promotes stronger roots, resulting in healthier rice and increased production.

BENEFITS

- 1 By reducing the number of unnecessary irrigations, AWD can reduce water use by up to 28%.
- 2 AWD reduces methane (CH₄) emissions by 40%.
- 3 AWD increases yields. It also increases revenue by reducing irrigation costs.