

Non-CO₂ Greenhouse Gases: Nitrous Oxide

Source/Sectors: Agriculture/Field Burning of Agricultural Residues

Technology: Options for emission reduction related to burning of agricultural residues (B.1.3)

Description of the Technology:

Large quantities of agricultural crop residues are produced from farming activities. Crop residue burning is a net source of nitrous oxide, which is released during combustion (USEPA, 2006a). The mitigation options for reducing N₂O emissions from agricultural residue include improved fire management practices, plowing under, or composting (Gale & Freund, 2002).

Effectiveness: Low

Implementability: Low

Reliability: Low

Maturity: Low

Environmental Benefits: It reduces nitrous oxide emission.

Cost Effectiveness: Low

Industry Acceptance Level: Low

Limitations: None reported.

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