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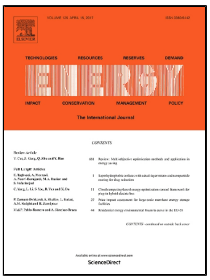

Energy conservation and greenhouse gas mitigation under different production systems in rice cultivation

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Research highlights:

- The Energy use and GHG emissions of different rice establishment methods is analysed.
- Transplanted puddled rice (TPR) had lower EUE over direct sown method (DSR).
- TPR recorded higher total C input, lower CSI over DSR due to higher fuel use.
- TPR had higher GHG emissions due to higher CH_4 emissions, fuel use and fertilizer.