

PADDY HUSK GASIFICATION

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Most of the agro-wastes, including paddy husk can be converted into energy. The annual paddy husk production in Sri Lanka is more than 400,000MT and the energy content of paddy husk is 14-16MJ/kg. If at least a portion of the annual paddy husk production is converted into energy, a significant impact will be produced on the energy system of our country.

After considering the above facts, it was decided to develop a paddy husk gasifier, as the primary energy conversion equipment, since the gasification process provides numerous advantages over the other processes, specially, when the local industrial infrastructure is considered.

The following topics are discussed in two technical research papers.

1. Properties of paddy husk as a fuel
2. Available paddy husk based energy conversion techniques and other possible uses of paddy husk as a fuel.
3. Principles of thermal gasification and the applications of this process.
4. Design considerations and basic design calculations for a paddy husk gasifier.
5. Performance of the gasifier against certain design and operational parameters.

C-18 : 10th Dec. 1987 (Thursday) 03.00 p.m. - 03.15 p.m.
C-19 : 10th Dec. 1987 (Thursday) 04.30 p.m. - 04.45 p.m.