

# Excellence Through Innovation



Innovation is the key to excellence & productivity.

- Paddle Solid Waste Management

## Paddle Dryer Solid Waste Management System – Coca Cola



#BecomingTheBest  
Through innovation

HCCB implemented a paddle  
dryer solid waste management  
system to reduce the sludge  
moisture in our manufacturing  
practices

Introducing effective solid waste management techniques



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- **Organization implemented a paddle dryer solid waste management system to reduce the sludge moisture in our manufacturing practices**

Sludge exists in a solid or semi-solid state as a by-product of our ETP, STP biological, and WTP operations. As part of our innovative and sustainable manufacturing practices, Org recently implemented a paddle dryer solid waste management system to reduce the sludge moisture in manufacturing practices.



- **How does a paddle dryer solid waste management system work?**

The solid waste management system using a Paddle dryer can reduce the moisture content of sludge to 15%, resulting in a 40% reduction in sludge volume. This dried sludge is then used for monetization through co-processing with briquettes.

The Paddle dryer is specifically designed and developed to dry various pastes such as ETP/STP biological/chemical sludge, spent carbon, and WTP sludge. These machines are highly efficient and employ mechanical agitation, utilizing indirect heating through steam or thermic fluid.



Sludge at input/output of Paddle System

WTP Sludge



Input : WTP Sludge  
at 70% Moisture



Output : WTP Sludge  
at 15% Moisture



Output : WTP Sludge  
@15% Moisture

ETP Sludge



Input : ETP Sludge at  
75% Moisture



Output : ETP Sludge  
at 15~20% Moisture

## Key benefits

### **Sludge Disposal Cost Reduction**

- Sludge Moisture reduction to 15~20% from 70%.
- Sludge quantity reduction by 40% with a ROI of 16 months.
- Sludge carrying certain calorific value can be mixed with Briquette in the ratio of 5~10% leading to fuel saving.

The implementation of the paddle dryer system has been successfully carried out at the 3 plants of Coca Cola.



Thank You