

Macawber Installation Case Study: Ground Rice Hulls – AT Biopower, Pichit Thailand

IN BRIEF

The customer purchased four x 12/12 Denseveyor® systems to replace existing large blow pot type transporters that were not operating. The systems were used for handling the fuel supply material from the delivery dump locations to the customer's boiler feed bin.

MATERIAL CHARACTERISTICS

Material	Ground Rice Hulls
Bulk Density	Aerated 240 kg/m ³ (15 lb./ft ³)
Size	100% < 1mm, 50% < 500µ, 5% < 100µ
Temperature	Ambient
Moisture Content	0-15%
Condition	Free flowing, moderately abrasive



SYSTEM OBJECTIVES

1. Reliable consistent conveying
2. Reduce air consumption from existing systems
3. Reduce pipe and valve wear
4. Operate with 1 psig vacuum in baghouse

SYSTEM PERFORMANCE

Transfer Capacity	10.2 Mt/h each system
Conveying Distance	40m (130 ft)
Reception Points	One per system

IMPROVEMENTS ACHIEVED

1. System operation is stable, reliable and efficient
2. System capacity exceeded specified rates by average of 6%
3. Air consumption was 9 % below MEI quoted average. This, in turn, was 20% below the existing system air consumption

