

## OB 2015 – Internal Process



INDONESIA OPERATIONS  
MANUFACTURING

### HMS

|                    | Primary Processing               | Secondary Processing |
|--------------------|----------------------------------|----------------------|
| Energy Consumption | 8.18 GJ/mio sticks               |                      |
| Water Consumption  | 10.30 m <sup>3</sup> /mio sticks |                      |
| Waste Generation   | 261.9 kgs/mio sticks             |                      |
| LTI                | 0 case                           |                      |
| TRI Rate           | 0.17                             |                      |

### ATB

|                    | Secondary Processing            | OTP |
|--------------------|---------------------------------|-----|
| Energy Consumption | 1.96 GJ/mio sticks              |     |
| Water Consumption  | 0.94 m <sup>3</sup> /mio sticks |     |
| Waste Generation   | 30.5 kgs/mio sticks             |     |
| LTI                | 0 case                          |     |
| TRI Rate           | 0.36                            |     |



INDONESIA OPERATIONS  
MANUFACTURING

## Energy, Water, and Waste

### Focus

- Energy : reduce utility usage i.e., compressed air, steam, electricity
- Water : reduce water usage, eliminate leakage, remapping water distribution and optimize usage
- Waste : reduce waste generation and increase recycle rate

|              | Energy |                | Water |               | Waste |               |
|--------------|--------|----------------|-------|---------------|-------|---------------|
| HMS          |        |                |       |               |       |               |
| PP Cutfiller | 2.13   | GJ/ MT         | 1.21  | m³/MT CF      | 8.90  | kg/MT         |
| DIET         | 6.10   | GJ/ MT         | 0.11  | m³/MT         | 18.00 | kg/MT         |
| RTC          | 4.40   | GJ/ MT         | n/a   |               | 6.60  | kg/MT         |
| SKM          | 2.81   | GJ/ mio sticks | 2.81  | m³/mio sticks | 26.58 | Kg/mio sticks |
| ATB          |        |                |       |               |       |               |
|              | 1.96   | GJ/ mio sticks | 0.94  | m³/mio sticks | 30.5  | Kg/mio sticks |