

# Energy



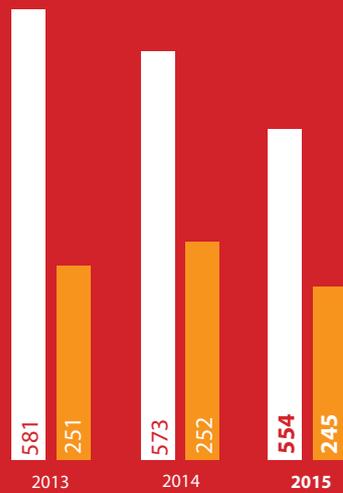
**471 GWh**  
exported

**Jerome Jaen**  
*Chief Executive Officer*  
Omnicane Thermal Energy Operations  
(La Baraque) Limited



**221 GWh**  
exported

**Frédéric Robert**  
*Power Plant Manager*  
Omnicane Thermal Energy Operations  
(St Aubin) Limited



■ Omnicane Thermal Energy Operations (La Baraque) Limited  
■ Omnicane Thermal Energy Operations (St Aubin) Limited

Total electricity produced in GWh



**Electricity**

***“After several years of study and testing, the Carbon Burn Out unit, which consists of the transformation of coal ashes into energy and the residual powder into cement additive is due for commissioning in September 2016.”***

# ENERGY

(G4-4, G4-9)

Omnicanne's Thermal Energy Operations comprise of three power plants: A 35-MW coal-fired power plant at St Aubin, a 90-MW coal and bagasse fired cogeneration plant and a 3.8-MW smaller plant fuelled by coal and woodchips at La Baraque.

In 2015, Omnicanne's power plants produced a total of 820 GWh of electricity (2014: 825.4 GWh) and exported 692.3 GWh of (2014: 723.9 GWh) to the national grid. Furthermore, out of the total electricity exported to the grid, 147 GWh is from renewable energy using bagasse.

The marginal 0.6% drop in total electricity production was due to lower demand from the off taker as heavy rainfall on the island lead to more hydroelectricity being produced in 2015. On the other hand, the small 3.8 MW power plant at La Baraque, which was operational for 7700 hours, produced 174,899 tonnes of steam and 21 GWh of electricity, destined for internal consumption within our industrial cluster only.

The consistent financial and operational performance of the energy segment is the result of rigorous planning for maintenance to ensure that the power plants remain reliable and flexible operating units. In this context, to reduce the plant's coal consumption at St Aubin, several process improvements were made such as replacing its coal feeders and spreaders by the more efficient Detroit underthrow spreaders at a cost of Rs. 25 million. This has significantly enhanced the performance of its boiler and reduced its coal consumption by 20 g/kWh.

Reducing the carbon footprint of the power plants on the environment is a priority for Omnicanne. After several years of study and testing, the Carbon Burn Out project, which consist of the transformation of coal ashes into energy and the residual powder into cement additive started in 2015. The construction of the plant at La Baraque is at an advanced stage and is earmarked for commissioning in September 2016.

In line with the above project, the St Aubin power plant opted for the implementation of a dry bottom ash conveying system at a cost of Rs 105 million. The installation of this equipment was completed in December 2015 and it is now in commissioning phase. This conveying system will allow the power plant to reduce its impact by recycling its bottom ash as concrete aggregates.

It is worthwhile noting that in 2015, the power plant at St Aubin was successfully certified OHSAS: 18001 Occupational Health & Safety standard. As a result, both St Aubin and La Barque power plants now have an integrated system for quality, environment and, health and safety management. With these standards in place they will deliver quality products, reduced accidents statistics on site, decreased operational risks, and sustain their environment.

## Electricity produced and exported

Year	2015	2014	2013
<b>Total Electricity Produced, GWh</b>	<b>820</b>	<b>825</b>	<b>832</b>
- Thermal La Baraque (90 MW power plant)	554	573	581
- Thermal St Aubin	245	252	251
- Small Energy Plant (3.8 MW power plant)	21	-	-
<b>Total Electricity Exported, GWh</b>	<b>692</b>	<b>724</b>	<b>724</b>
- Thermal La Baraque (90 MW power plant)	471	493	494
- Thermal St Aubin	221	231	230
<b>Island Production, GWh</b>	<b>2,688</b>	<b>2,640</b>	<b>2,574</b>
<b>Percentage of Island Production</b>	<b>26%</b>	<b>27%</b>	<b>28%</b>



## PROSPECTS

The existing power plants are up to now performing as planned and the main focus for 2016 will be the successful commissioning of the Carbon Burn Out plant as well as the dry ash conveyor at La Baraque and St Aubin respectively.