

# Mondelēz Philippines Inc.



**Total Renewable and  
Energy Efficiency Solutions**

## PROJECT SUMMARY

**Project Type** – Energy Efficiency using Vapor Absorption Technology

**Food Manufacturing Facility** – Mondelez Philippines In., formerly Kraft Foods Philippines, the local arm of Mondelēz International – known for brands like Cadbury Dairy Milk, Cheez Whiz, Eden Cheese, Eden Mayo, Oreo, Tang, Tiger Energy, Chips Ahoy, Belvita and Toblerone.

**Energy Consumption savings** – 1,440,000 kWh per year (3,945 kWh per day)

**Greenhouse Gas Emission Savings:** 693 tonnes of CO<sub>2</sub> per year (1.9 tones per day)

## TECHNICAL SUMMARY

Mondelez has been powering its manufacturing plant in the Philippine with renewable energy since 2013 with solar photovoltaics installed in their roof and a biomass boiler located inside their premises.

Mondelez International Group has a target of 7% reduction of absolute CO<sub>2</sub> emission from manufacturing which is on target to reach 15% by 2020. In this regard, Mondelez Philippines needs to find other means of reducing CO<sub>2</sub> emission aside from renewable energy and one of the options that they are looking at is energy efficiency. With their biomass boiler being over designed which resulted to generation of excess heat from steam they tapped TREES Corporation to design and install an energy efficiency equipment. TREES proposed the Vapor Absorption Machines (VAM) with state-of-the-art technology by VOLTAS.

The steam from the biomass boiler will go to the VAM which is consist of the following:

1. Evaporator
2. Absorber
3. High temperature generator
4. Low temperature generator
5. Condenser; and
6. Heat exchangers

After going trough all of these the air going inside or being recycled is now cooler which is being used by the client for space and product cooling. Therefore, generates energy savings and gets them closer to their CO<sub>2</sub> emission reduction goal.

## CONTACT US

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