

# Environmental Sustainability Initiatives

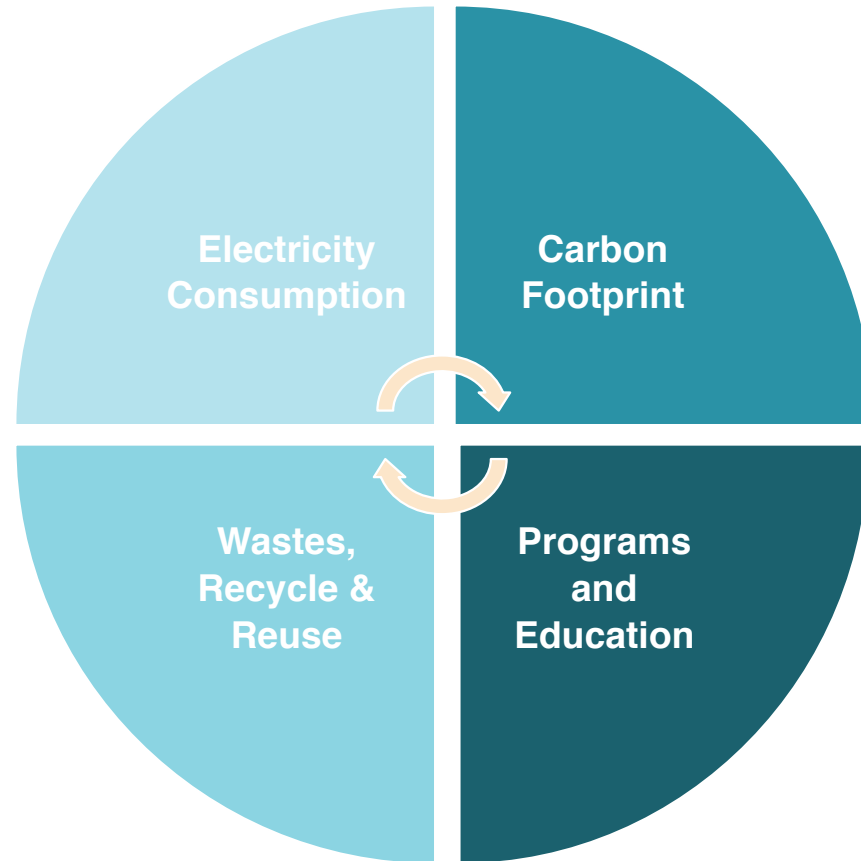
2018



# Decal (Singapore) Sustainability Management



## Four Keys Initiatives for 2018/2019



Sustainability Initiative 1

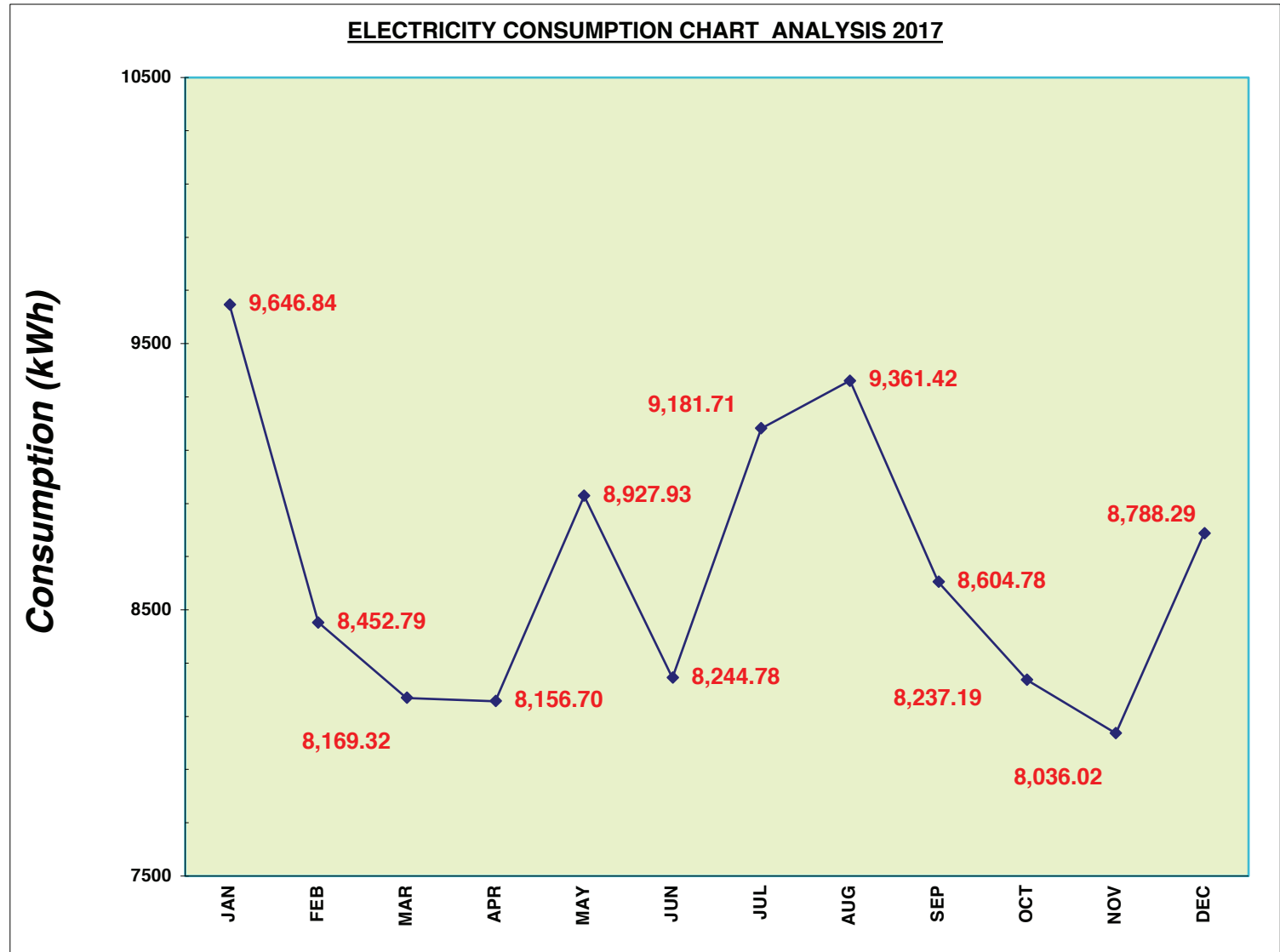
# Electricity Consumption



- Implemented management program to reduce electricity consumption in 2018/19.
- Tracking of electricity consumption on monthly basis
- Moving towards 2018/19
  - Track electricity consumption with respect to floor areas and production outputs to give better and accurate consumption patterns with respect to common factor
  - Study to regulate production and workplace ambient temperature
  - Rationalise the use of fluorescent lighting with energy saving LED lighting

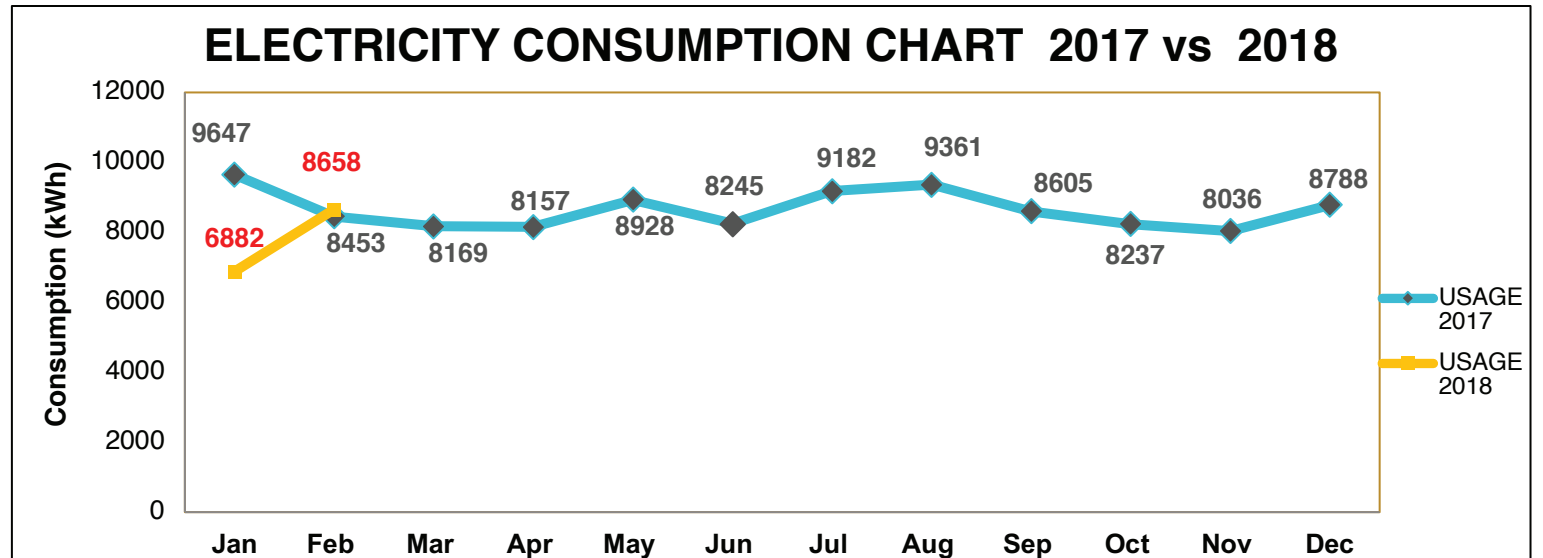
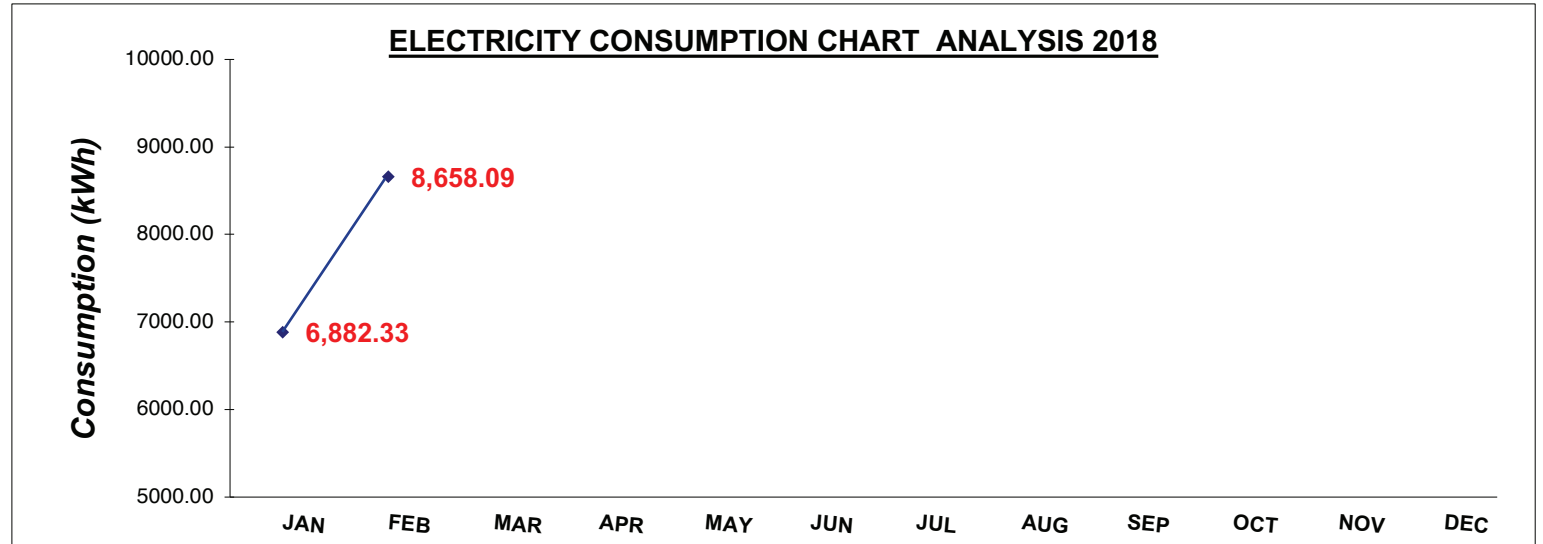
# Electricity Consumption Reporting

Current Target is to reduce consumption to 7,000Kwh/month



# Electricity Consumption Monitoring

Current Target is to reduce consumption to 7,000Kwh/month



Sustainability Initiative 2

# Carbon Footprint



- Implemented carbon footprint program. With first tracking the carbon emission due to electricity consumption in 2018.
- Moving towards 2018/19
  - Launch the carbon footprint education kit to all employees
  - Extend carbon foot print to usage of electricity
  - Implement plans to reduce carbon footprint such as:
    - ❖ Reduce optimise delivery trips
    - ❖ Reduce scrap and wastages during production
    - ❖ Reduce packaging materials

# Carbon Footprint Reporting



## ESTIMATION OF CO<sub>2</sub> FOOTPRINT GENERATED BY DECAL SINGAPORE BASED ON ELECTRICITY USAGE

Using EMA latest Grid Emission Factor  
Give **0.4244kg CO<sub>2</sub> per kWh\***

Our average carbon footprint (YTD 2017 = 8,651KWh)

**3671.5 kg**

Our average carbon footprint (YTD Jan – Dec 2017 = 66,125KWh)

**28,063 kg**

\* Source from Energy Market Authority (EMA)

Sustainability Initiative 3

# Wastes Recycling Reuse



- Implemented recycling and reuse for carton boxes and plastics.
- Tracking of product scrap rate
- Tracking of chemical or hazardous wastes disposal
- Moving towards 2018/19
  - Prepare monitoring of recycle and reuse quantities by work areas
  - Improve collection efficiency for recycle and reuse items
  - Study methods to reduce product scrap rate
  - Use of recycling papers and expand sources of supplies with FSC (Forest Stewardship Council) approval



Wastes  
Recycling  
Reuse



## 2017/18 Data

Quantity Recycle for Carton Boxes

**862 kg**

Quantity Recycle for Papers Products

**265 kg**

Quantity Disposal of Hazardous  
Wastes

**1,268 kg**

Sustainability Initiative 4

## Programs and Education



- Moving towards 2018/19
  - Implement sustainable purchasing to work with vendors/suppliers to identify opportunities for sustainable product labels and ecologically friendly printing media and packaging materials
  - Implement platform to allow self learning by employees on company's environmental sustainability programs