

## PROJECT REFERENCE 2017 SOLAR PV GRID-TIE SYSTEM

### AQUA DANONE CIHERANG FACTORY 770 kWp array on rooftop



#### 1. Introduction

This solar photovoltaic grid-tie system has been designed to run under Aqua factory self-consumption. It is installed on a 10,000m<sup>2</sup> rooftop and runs through a by-directional meter supplied by PLN.

It is expected to produce up to 15% of the electricity consumed by this bottling factory operating 24/7 near Bogor, West Java.

#### 2. Project Details

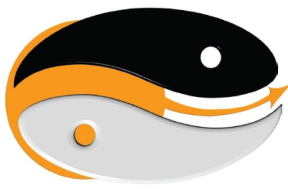
##### Category

Power System / Solar Photovoltaic / On Grid / Self-consumption

##### Commissioning

August 2017, licensed to operate from PLN since November 2017

**Ownership:** PT. Tirta Investama (Aqua Danone)



## Equipment installed

- A 770,240Wp solar array (2,407 Tier 1 JA Solar modules of 320Wp)
- Non-penetrative mounting structure in Aluminium 6005 T5, no shading on skylights
- Permanent Steel Lifeline around perimeter of the roof



- 26 SMA Sunny Tripower 25kW inverters and 52 dedicated MPPTs (over 98% efficiency)
- Dedicated inverter shelter, well ventilated, secured and easy to maintain



Real-time monitoring

## 3. Main Benefits

- PV energy production: 885,500 kWh / year = 384t of CO<sub>2</sub> abated / year
- Roof temperature reduced by 15-20°C under solar modules, thus reducing load on building Air Conditioning
- Proprietary real-time monitoring system remotely controlled, enabling to manage settings and troubleshoot the power system at any time

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