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Intelligent Energy Efficiency Monthly Report

ENGIE

€ 60 billion
revenue

24 million
contracts

global no. 1
energy services

Did you know?

Restaurants consume 4x more energy than office buildings.

Bloomberg

Markets

Singapore Raises Power Tariffs by 10%, Adding to Price Pressures

" … will have to renew it at 32.28 cents per kwh, which is 89% more than the 17.08 cents per kwh previously paid. "

Singapore Government Support

Partnering with government agencies to help our customers.

Mr Jason Tang set up energy solutions firm TablePointer in December 2019, to help smaller firms better manage their equipment operations with an energy management technology platform. ST PHOTO: GIN TAY

Start-up helps firms cut energy use by up to 30%

Mr Jason Tang, founder and chief executive of energy solutions start-up TablePointer, was troubled that commercial facilities often left their machines running, even when they were not required.

While energy efficiency solutions were available on the market, they were mostly geared towards larger facilities and not suitable for smaller operations.

In December 2019, Mr Tang, 40, set up his own company, to help smaller firms better manage their equipment operations with an energy management technology platform. He did this with the support of utility giant Engie's venture arm Engie Factory, which has provided mentorship as well as help in product development and customer validation.

TablePointer works with small and medium-sized commercial facilities, such as central kitchens and small warehouses, which have equipment that is constantly running. It enables them to monitor and control equipment such as heating, ventilation and air-conditioning.

TablePointer's experts will analyse the client's data and operations to recommend a combination of technology solutions and behaviour to reduce energy consumption.

Its system helps customers save between 10 per cent and 30 per cent of energy consumption, Mr Tang said.

"Every little (bit of) energy that we save will matter in our challenges with climate change, especially when you multiply that across Asia's explosive growth."

Choo Yun Ting

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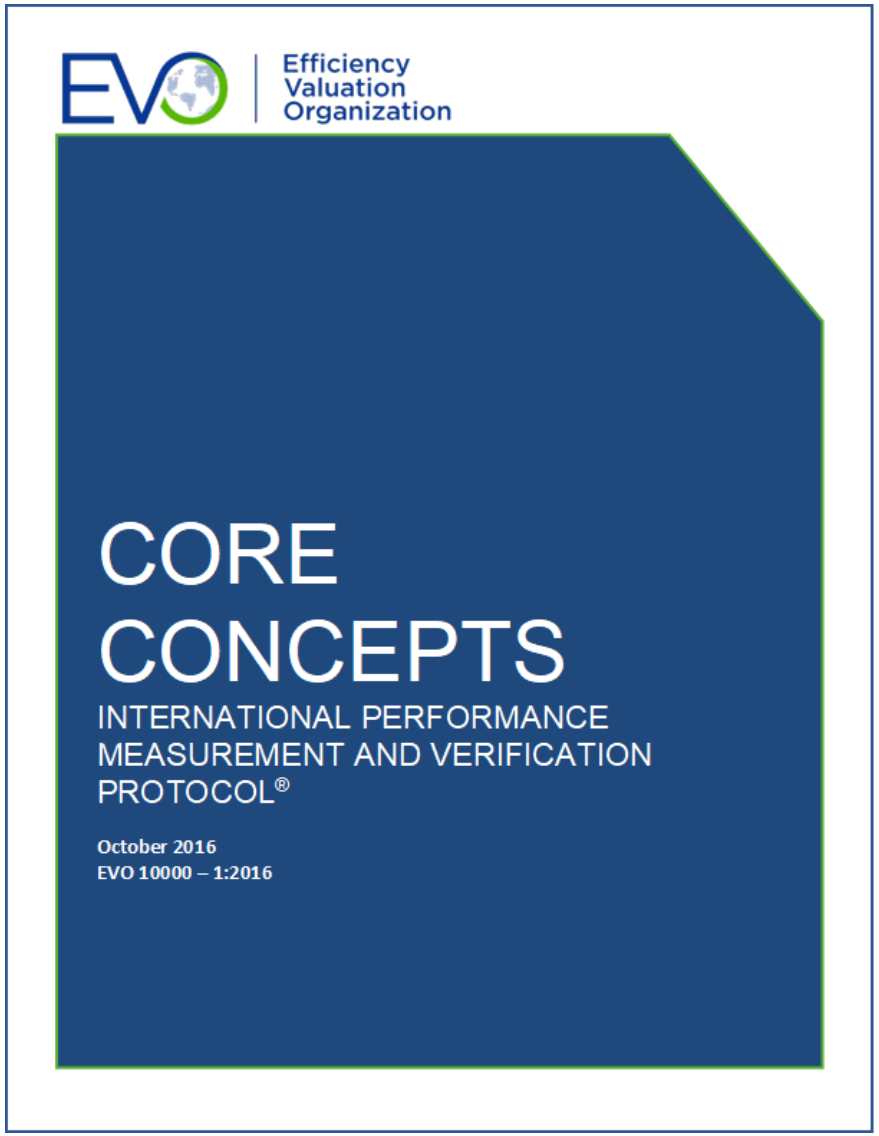
Global Standard For Energy Savings



- TablePointer follows the IPMVP guidelines to provide energy savings measurement for each individual equipment.
- The IPMVP is a measurement & verification standard led by the US Department of Energy and is the most recognized standard to determine energy efficiency savings.
- The IPMVP enables measurements of energy savings that are accurate, specific, and with low uncertainties.

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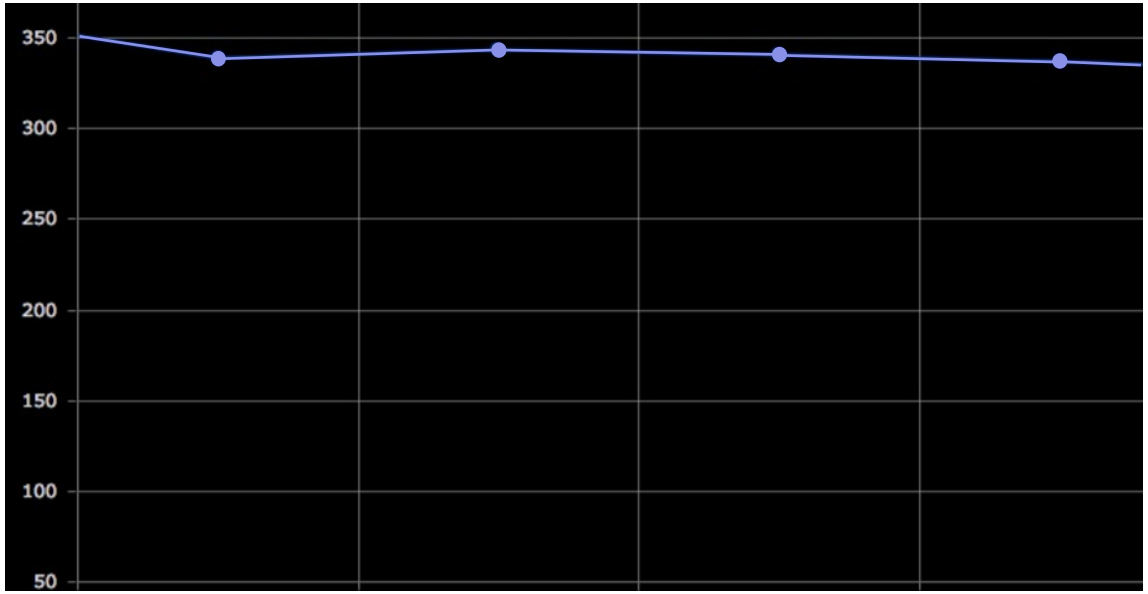
Guidelines For Measuring Savings

Energy Usage Of Normal Equipment



Each equipment's energy usage has a consistent averaged profile

Energy Usage With Intelligent Energy Efficiency

Measured Savings = Σ(Baseline Energy Use - Retrofitted Energy Use) $_{time}$

- Install smart energy monitors for each individual equipment.
- Measure each equipment's energy baseline before activation of solution, and then continuously and dynamically sample to ensure validity.
- Automatically measure Measured Energy Savings when equipment is in use by outlet and energy saving happens.

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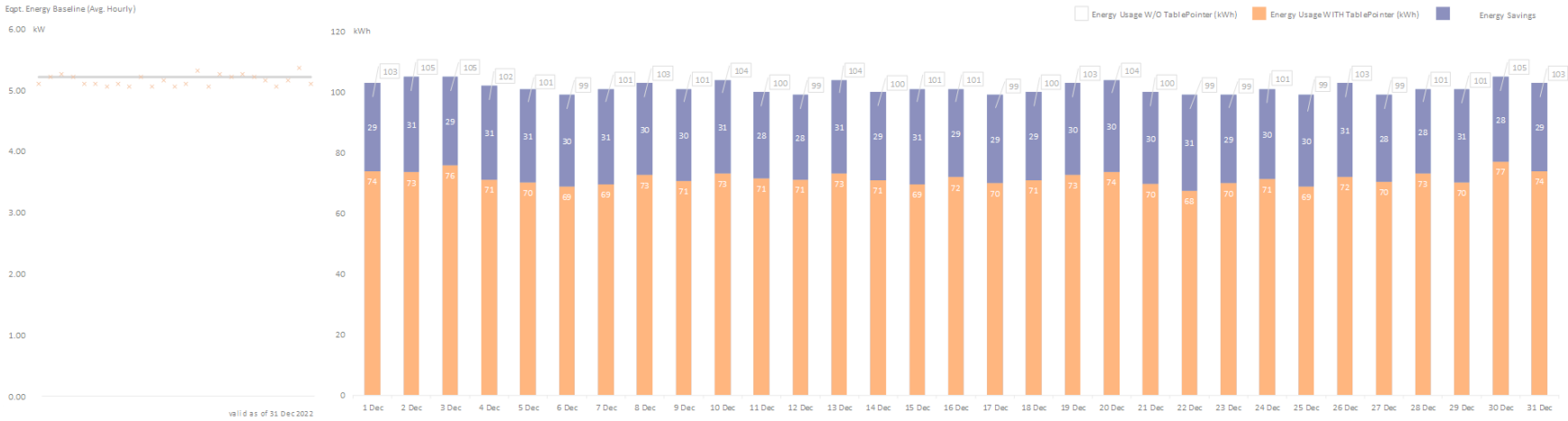
Understanding Your Savings Report

Month of reference: December 2022

	Eqpt. Energy Baseline (Avg. Hourly)	Last Avail. Tariff	Eqpt. Energy Usage W/O TablePointer (Month)		Eqpt. Energy Usage WITH TablePointer (Month)		Measured Energy Savings (Month)			CO_2 Savings (Month)	Savings @ Tariff ↑	Remarks
	kW	$ / kWh	kWh	$	kWh	$	kWh	$	%	kg	$ 0.3228	
(Ang Mo Kio Hub)		$ 0.1526	3,143	$ 479.58	2,217	$ 338.34	926	$ 141.24	29%	656	$ 298.77	
ACMV Equipment	5.21 valid as of 31 Dec 2022						*786*	*$ 119.89*	*--> 25% benchmark comparison*			
							314	*$ 47.96*	*--> 10% benchmark comparison*			



** Eqpt. Energy Baseline represents the equipment's energy usage over a typical hour without TablePointer, and is continuously and dynamically sampled for statistical best-fit averaging to ensure validity over time.*

** Benchmark Comparison of 10% - 25% is for guidance and based on database of projects implemented.*

Key Points

1 Energy Monitoring For Each Equipment

- Smart energy monitors are installed for each individual equipment in the outlet.

2 Equipment Energy Baseline

- Each individual equipment's energy usage baseline has a consistent averaged profile.
- The energy baseline represents the individual equipment's energy usage without TablePointer over a typical hour for statistical best-fit averaging, and is continuously and dynamically sampled to ensure its validity over time.

3 Measured Energy Savings

- Measured Energy Savings = Σ (Equipment Energy Usage Without TablePointer - Equipment Energy Usage With TablePointer) $_{time}$
- Measured Energy Savings is automatically measured when the individual equipment is in use by the outlet and energy saving happens.
- Savings Co-share Invoicing is based on Measured Energy Savings and the Last Available Tariff.

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