



Live more, Bank less

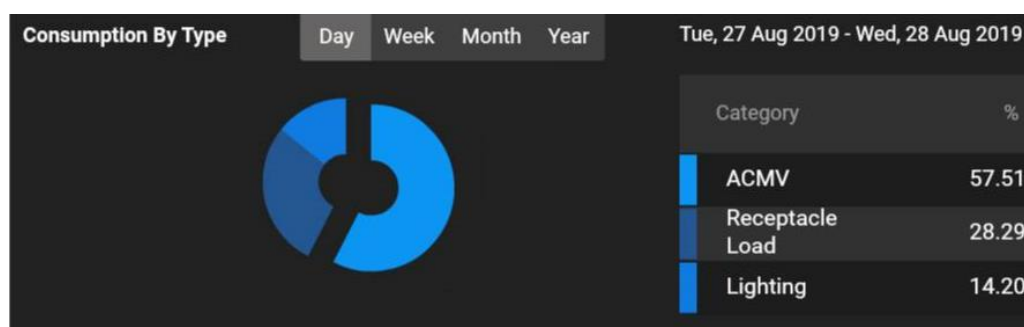
## Newton Building Fact Sheet





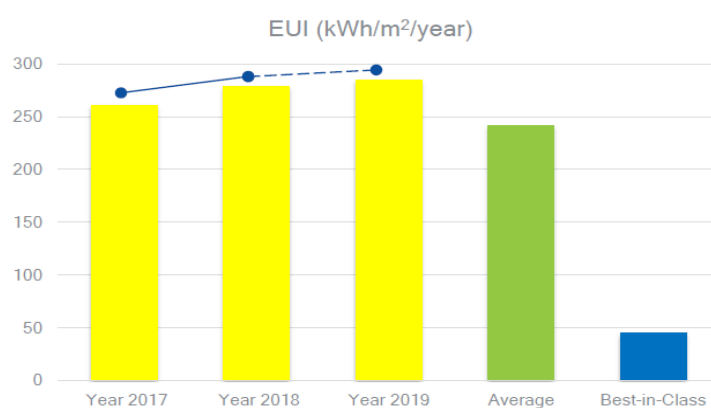
# Key Information

Building Name	POSB Newton		Stories	4
Address	135 Bukit Timah Road		Average Occupancy Rate	85%
Zip Code	229837		Greenmark	No (branch yes)
Age of Building	26 Years		<b>EUI</b>	<b>283</b>
Building Use	Office (+ bank branch)		<b>Annual consumption</b>	<b>845,108 kWh</b>
GFA	3029 m2		Occupants FTE	~450
Conditioned Floor Area	~85%			



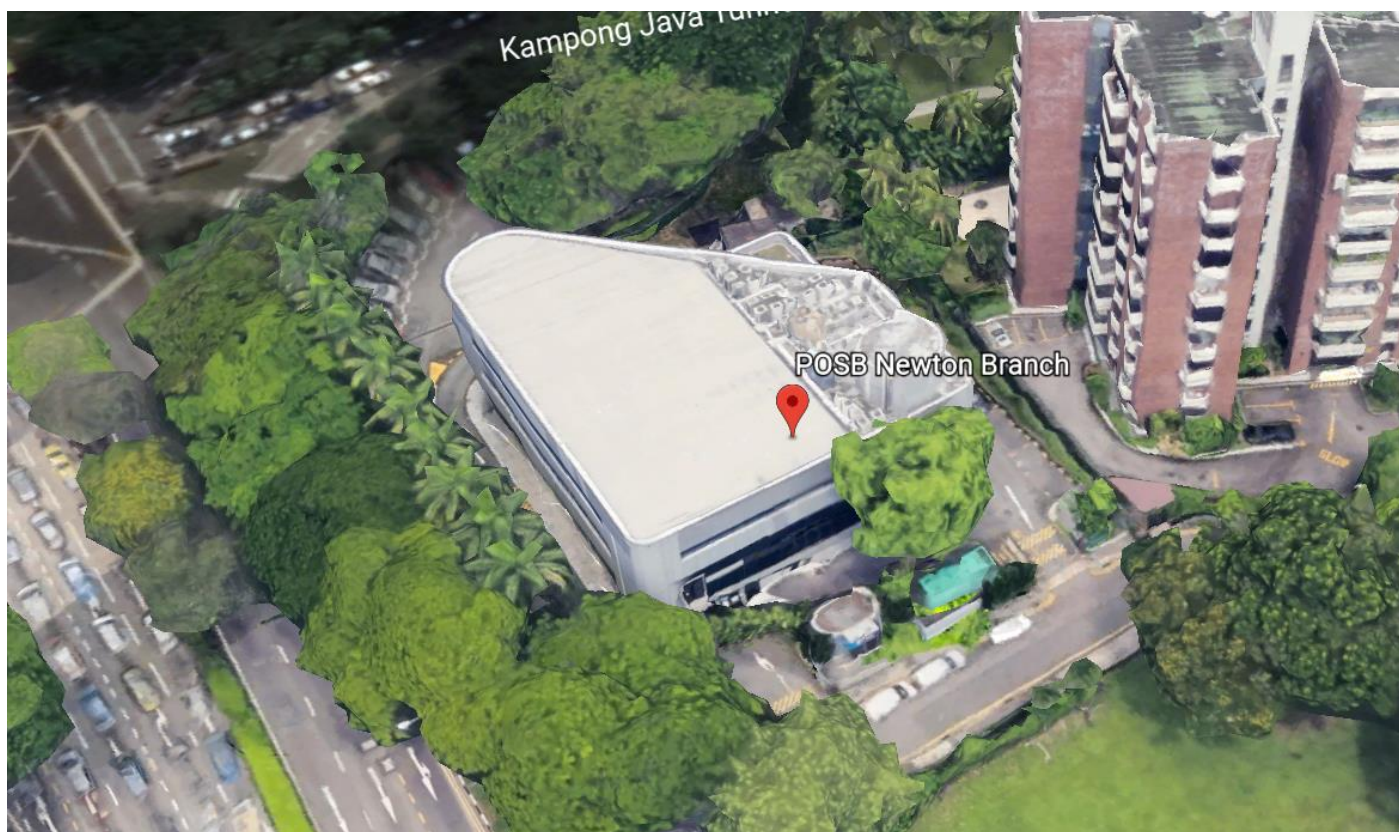
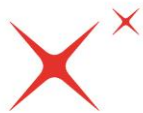
## Building Energy Use Intensity (EUI)

Year	EUI	Annual Consumption
Year 2018	279 kWh/m <sup>2</sup> /year	845,108 kWh
Year 2017	261 kWh/m <sup>2</sup> /year	792,523 kWh



Ranking
C

All information disclosed in this presentation is solely for the purpose of enabling your proposal only.



	Current	Unit	Goal
EUI	283	Kwh/m2/yr	84 - 90
Rating	Branch GM/None	Greenmark	Greenmark Platinum
Net Zero Energy	5% - 10%	Energy from renewable if solar installed	100% zero net
Employee Satisfaction		(occupant survey will be conducted pre-and post)	Better than current



Live more, Bank less

- Note – DBS is accepting proposals for solar systems. Systems that maximise production per m2 are most welcome, as is any technology that enhances efficiency, power, or effectiveness.

## Façade



- Concrete
- Hollow aluminum panels
- Single pane glazing
- Some windows sliding





## Cooling and Ventilation



- VRV System
- ~120 tons
- Some 2 tick, some 4 tick CUs
- iTouch Controls
- Some on timers
- Fresh air fans
- On timers



Live more, Bank less

Other information:

- 100% LED Lights
- Most of the office works 8-6. There are some small sections that need 24-7 power – like the server room.
- Only some meeting rooms have occupancy sensors – that operate only lights
- Lifts are due to be replaced in 2020
- Coolant lines from VRV system are in a single shaft
- Most floors are a typical office setup
- There is a retail bank branch on the 1<sup>st</sup> floor – Greenmark Certified
- Employees can be shuffled during interventions, although DBS seeks to minimize disruption
- Currently VRV system is operated with temperature settings and schedule from iTouch panels
- DBS is providing an energy model (in process). We will provide cooling capacity needed so vendors may propose correctly sized systems. However, for the purpose of the proposals, you may assume we need a 70 ton equivalent chiller system. Actual sizing can be accomplished later.