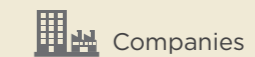


Opportunities abound in the electricity market for consumers to participate in demand-side management. Consumers can play an active role in optimising their energy consumption.

LEGEND:



Companies



Households



Research Institutes



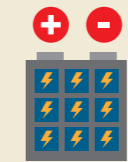
Project OptiWatt

Project OptiWatt is a pilot programme by EMA, public sector agencies, private sector companies, electricity retailers, research institutes and the electricity grid operator to explore demand-side management initiatives to demonstrate the benefits of optimising energy consumption.



Demand Response (DR) Programme

Be rewarded for reducing your electricity consumption during periods of high energy prices. You can receive a share of the system wide savings that result from demand response.



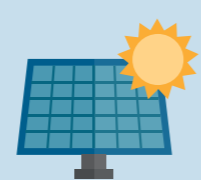
Energy Storage Systems (ESS)

Be part of the energy future. Since 2015, batteries can participate in the frequency regulation market. While ESS is a nascent area, EMA is working with stakeholders to ensure our policy framework keeps pace with evolving business models.



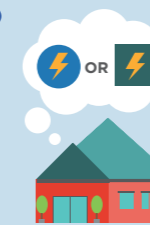
Interruptible Load (IL) Programme

Diversify your revenue streams by being paid to be on standby in response to system contingency events. Through this, you can also enhance system security and resilience.



Solar Energy

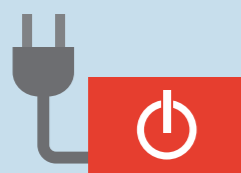
Show your commitment to sustainability by considering renewable energy options. System peak demand can be reduced as solar production typically coincides with system peak demand. Solar leasing lets you enjoy solar energy with no upfront costs. For those without rooftop space, you can also opt for green energy packages through an electricity retailer.



Open Electricity Market

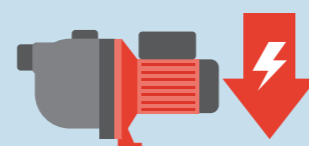
Manage your energy cost with more options available. In 2H 2018, all consumers (including households) can choose their electricity retailer to provide electricity price plans for their businesses and homes. Consumers can benefit from retailers offering diverse electricity plans including possibly time-varying pricing and energy management packages.

Typical Ways to Participate in Demand-side Management



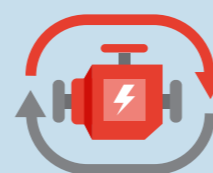
Production Equipment

If you have flexible production processes, you can choose to temporarily switch off specific non-critical production equipment.



High Voltage Air Conditioning (HVAC), Chillers & Pumps

For short periods, you can reduce energy consumption of electrical items such as HVAC, compressors, chillers or pumps.



On-site Back-up Generation

You can reduce system demand by running on-site back-up generators for short periods.

Red Dot Power (formerly CPvT Energy Asia) successfully completed a 40 MW virtual power plant pilot project to demonstrate the commercial viability and benefits of demand-side management as part of EMA's Smart Energy Challenge grant.

Participating customers and curtailed loads include NatSteel (arc furnaces), Keppel DHCS (chillers backed up by thermal storage), Tang Plaza (chillers) and Marina Bay Sands (air handling units and cargo lifts). These customers successfully curtailed their loads under the pilot without affecting operations.