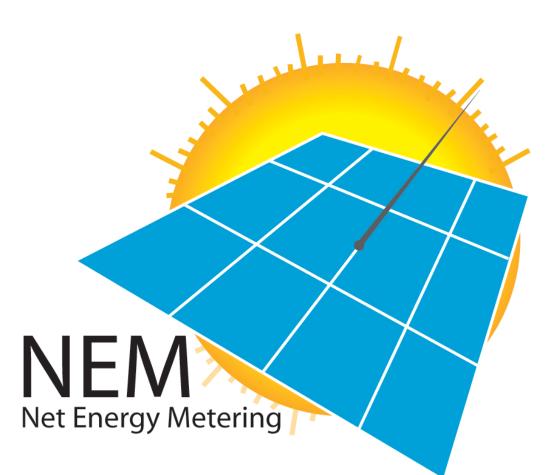


NET ENERGY METERING 2019

22 NOVEMBER 2018





"Solar PV is on track to be the <u>cheapest</u> source of new electricity in many countries."

Dr. Fatih Birol, Executive Director, IEA Oct 2018 ASEAN Ministers of Energy Meeting

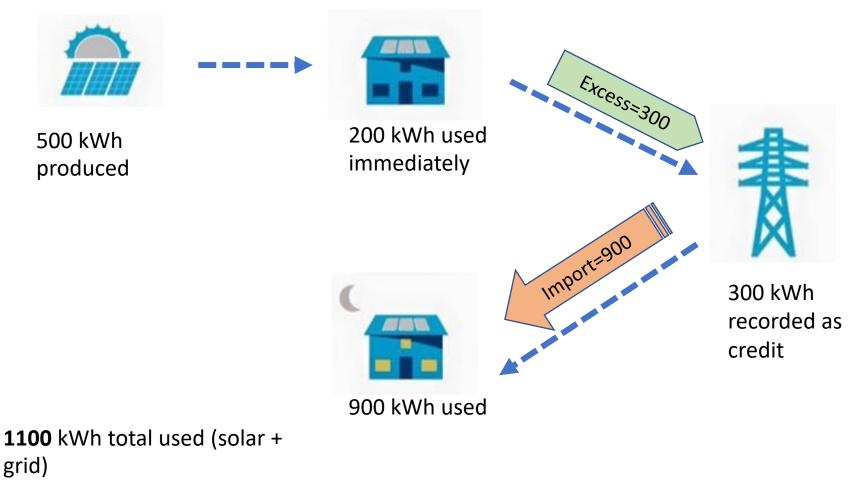


ENHANCEMENT TO THE EXISTING NEM

Issues	Solutions
High cost of outright purchase	More affordable - Solar leasing, Solar PPA
Long payback period	1-to-1 NEM calculation -Excess energy exported to grid at retail tariff
Operations and Maintenance	Solar leasing. Peace of mind.
Risk of default repayment	SARE
Is now the right time to put solar on your rooftop?	YES! The fall of global PV module prices & inverter



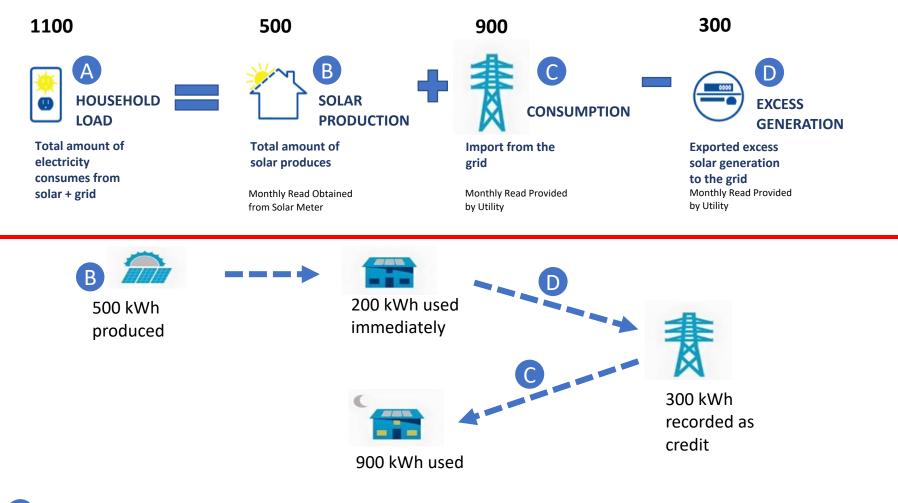
1-to-1 NEM (Case for Domestic Consumer)



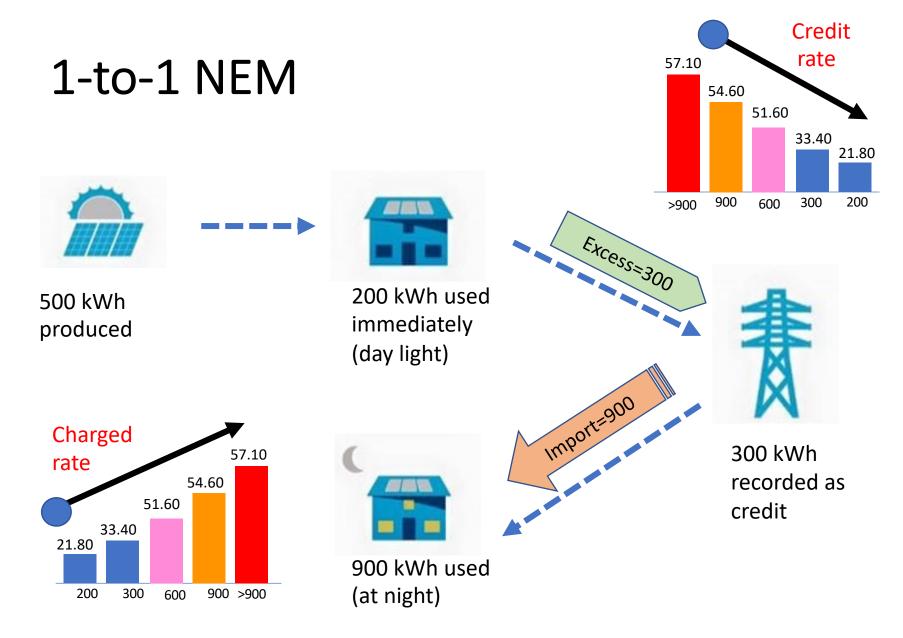
Customer only charged for 600kWh (i.e. 900 import -300 excess)



Formula of Total Used, A = B + C - D







Customer only charged for 600kWh



Benefits of NEM

- 1. Import less energy from the grid
- 2. Save on your electricity bills
- 3. Export excess energy back to the grid for credit to reduce electricity bills even further
- 4. Hedge against any possibility of future electricity tariff increases lock the price
- 5. Contribute to the reduction of CO2 emission
 - Reduce your carbon foot print
- 6. Mitigate climate change
- 7. Contribute towards national energy security



TECHNICAL & SAFETY REQUIREMENT

- Application of smart inverter to avoid technical violation toward neighbouring consumers.
- Smart inverter provides protection and voltage support for effective and safe integration into the system.
- To be made compulsory in new NEM



REGULATIONS OF NEM

- Guideline on Solar Photovoltaic Installation on Net Energy Metering Scheme
- Licensing requirement:
 - Installation above 72kW for three phase system and above 24kW for single phase system, the NEM consumer shall apply for license from the Energy Commission under Section 9 of the ESA 1990.
- NEM Assessment Study (NEMAS) for installation above 72kW.
- Power System Study (PSS) for installation above 1MW.

