

Infinite Renewables Store Station

Residential Battery Storage

Pilot Scheme

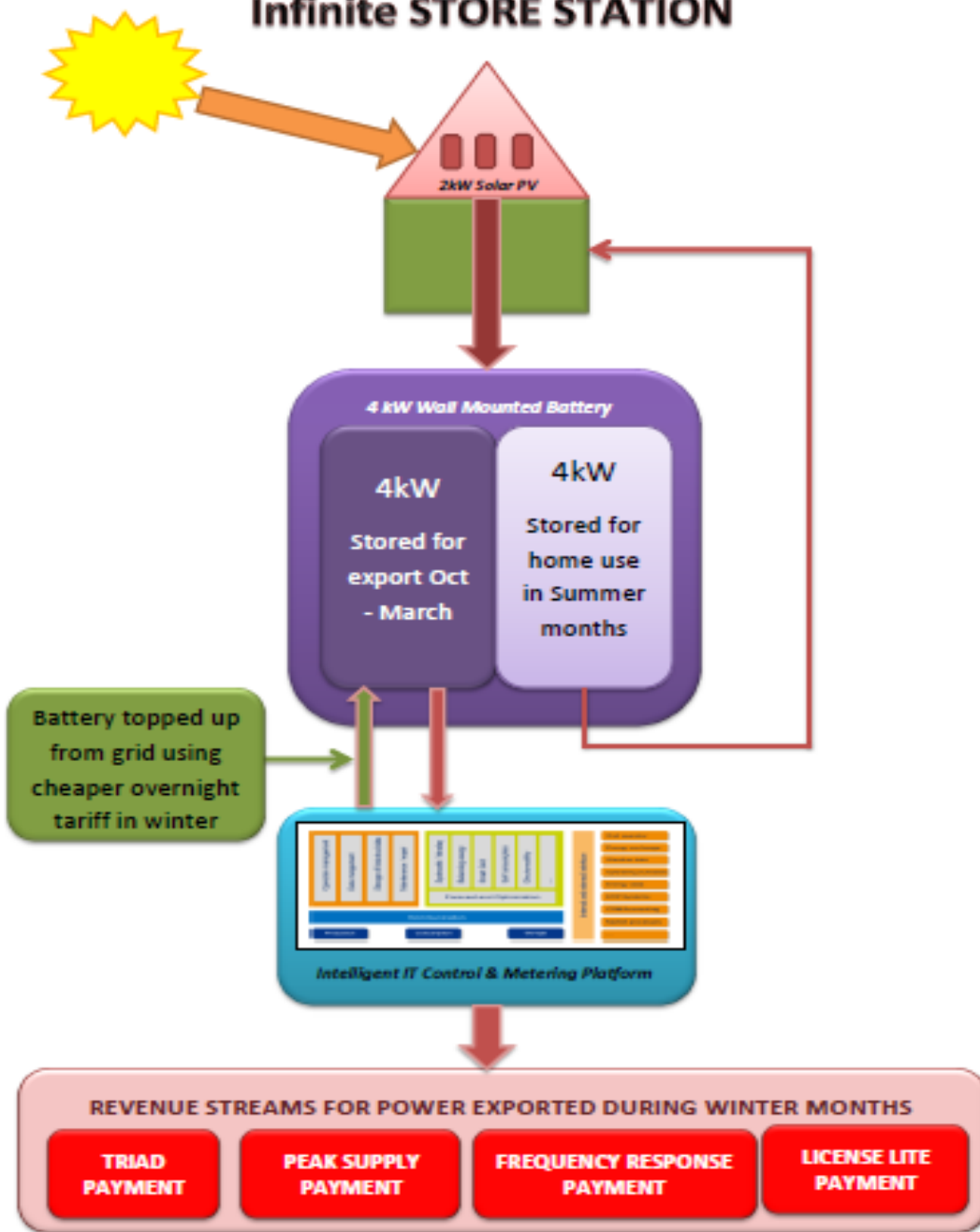
The STORE STATION PROJECT (SSP)

- A pilot scheme to install intelligent energy storage systems into 1000 x social housing properties in Wales that already benefit from on roof solar PV.
- To maximise the benefits of the solar PV generation by
 - In Summer, storing the excess generation for nighttime domestic use &
 - In Winter, charging the batteries at night on reduced tariffs & selling the stored power to key sectors of the energy markets during peak loads.

The STORE STATION: SYSTEM

- An intelligent IT platform links each individual storage system creating a virtual standby power station that can be instantly mobilized to grid
- Smart grid optimization & control technology combined with state of the art battery technology to produce a flexible domestic energy storage system, centrally monitored, metered & controlled.

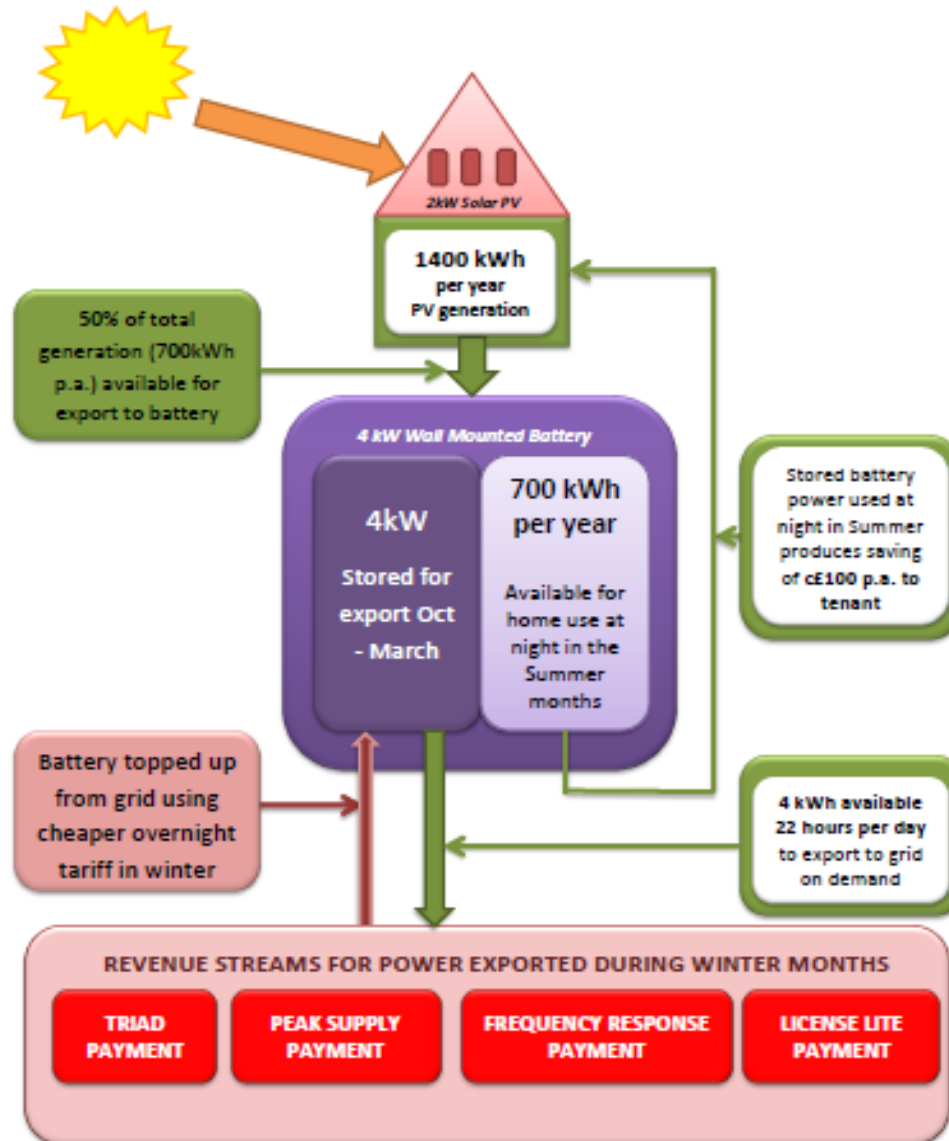
Infinite STORE STATION



STORE STATION EXAMPLE

- 2 kW solar PV system with a 4 Kw battery store
- An intelligent IT platform controls & meters the power to & from the battery remotely
- **In summer;** generated power is available to the property in the day & any excess power is stored in the battery for use in the property at night
- **In winter;** generated power is stored in the battery for export to the grid. The battery is charged at night using cheap tariff electricity
- The power is available to a number of grid support schemes offering multiple income streams;
 - Triad Payment
 - Peak Supply
 - Dynamic Frequency Response
 - License Light

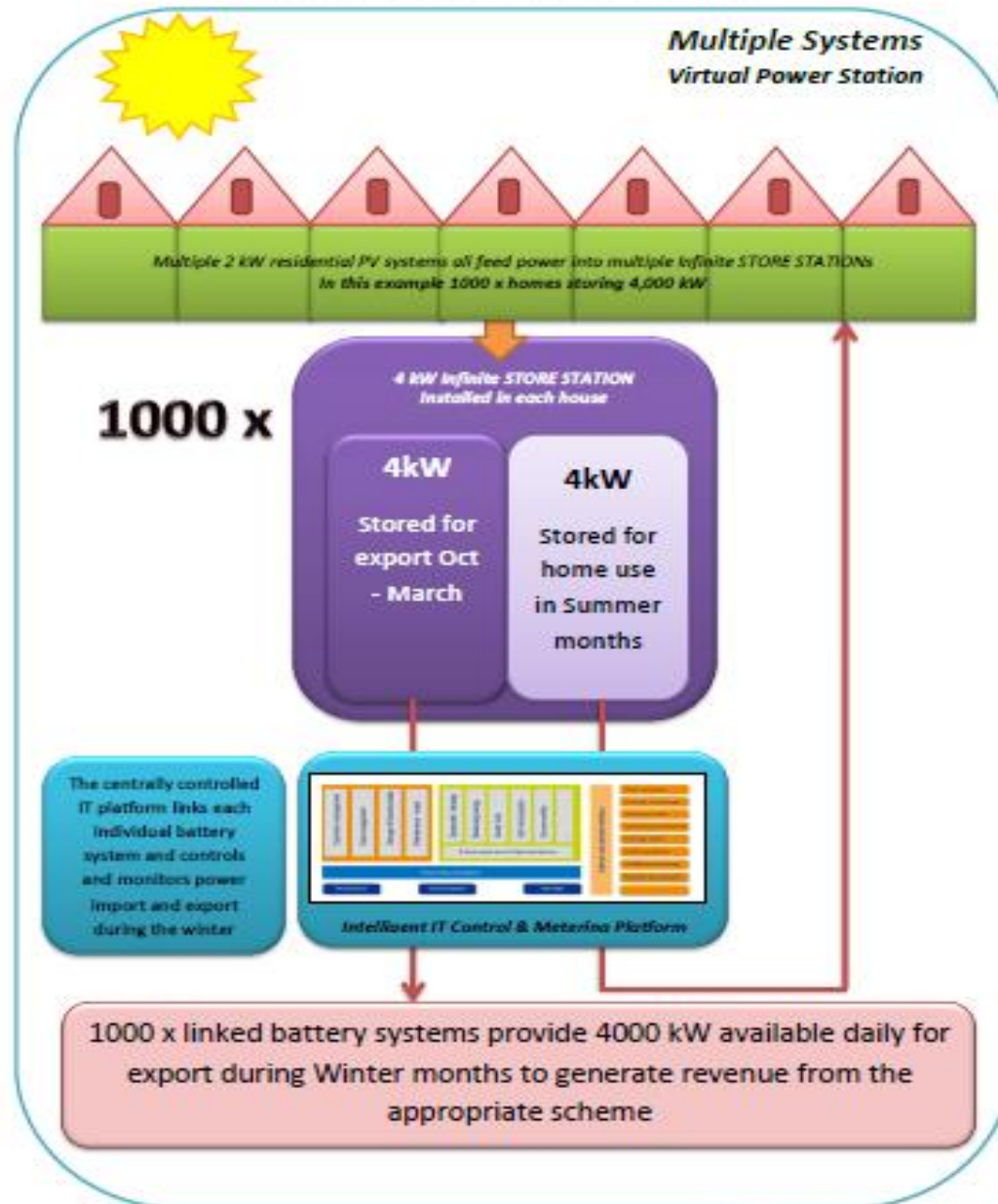
Infinite STORE STATION Example



The STORE STATION OPERATION

- The primary objective is to reduce the cost of electricity to the tenant by utilising all the power generated by the solar PV system
- The tenant benefits from stored excess power in the summer months
- In winter the batteries are linked to create a virtual power station to support the UK's growing energy requirements
- Power is available at critical times creating multiple income streams to finance the systems & provide revenue to the HA's

Infinite STORE STATION



Infinite Renewables are seeking HA partners within Wales to launch the pilot scheme in 1000 homes

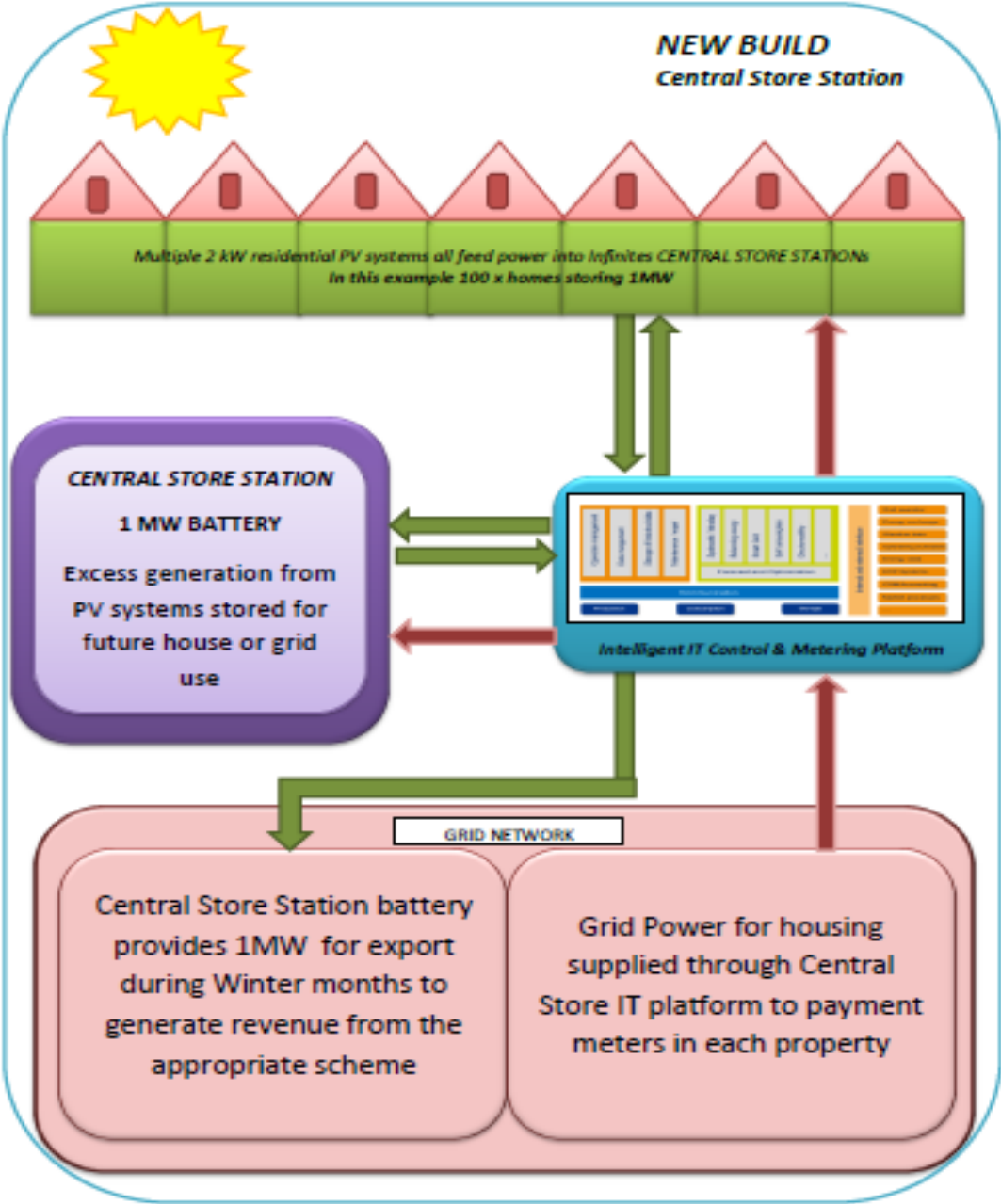
- To install & operate the system in a live environment
- To confirm the viability of the systems by supplying the most beneficial grid support schemes with the stored power
- To confirm the funding model options that offer the best return to the HA's

CENTRAL STORE STATION

Another storage option is ideally suited for new build developments – the Central Store Station (CCS).

- Rather than retro fit battery storage into individual houses , the CCS is a large single battery , centrally located within a new housing development.
- Each on roof PV system within the new development is linked to the CCS & the tenant can benefit from the cheaper excess stored power
- Excess generated power from the residential PV systems is stored in the CCS to be used by the tenants or exported to the grid under the various support schemes, generating revenue for the HA

Infinite CENTRAL STORE STATION



SUMMARY

Store Station & Central Store offer intelligent battery storage systems for both existing residential PV systems & for new build housing developments.

Infinite Renewables are seeking partners for pilot schemes that will provide benefits to both the tenant & to the Housing Associations.

Infinite would be interested to hear from any HA's interested in participating.