



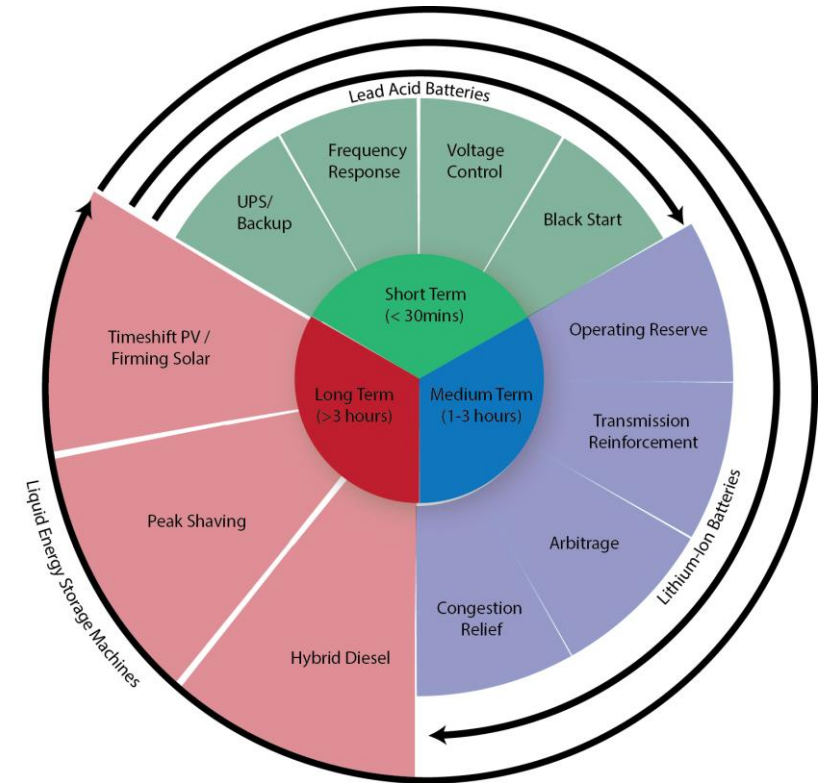
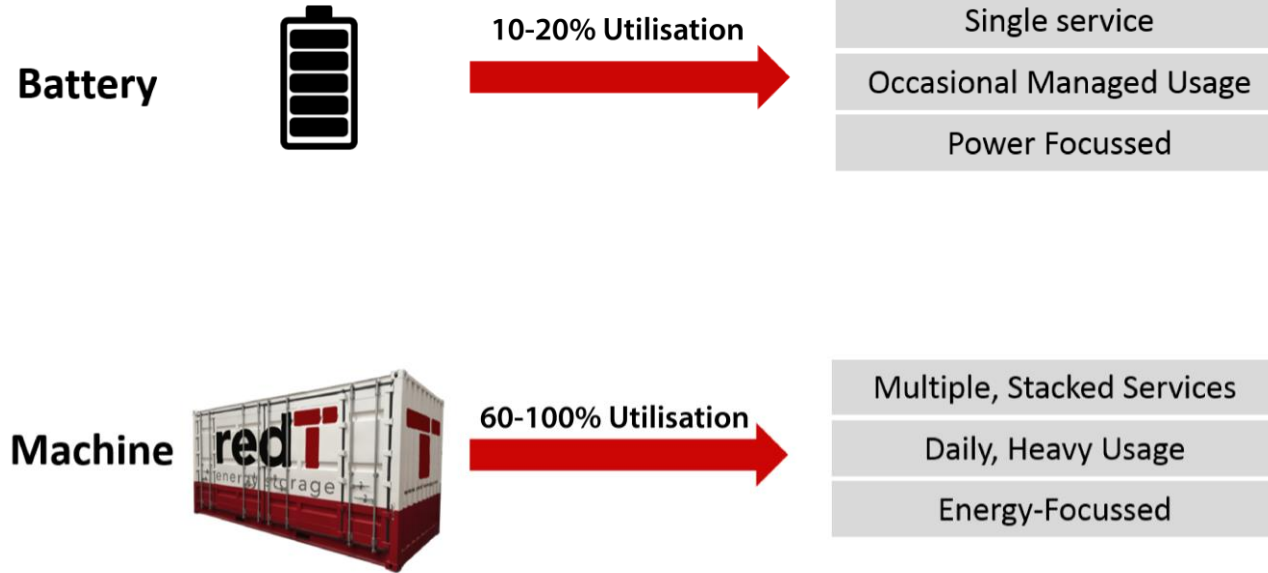
# **Power vs Energy Storage**

**Challenges & Opportunities for the UK Market**

*Scott McGregor, CEO, redT energy*

# Power or Energy Technology?

Different technologies are better suited for providing certain services:



# Making Storage Work for UK C&I Firms



Minimum 150kWp of  
Solar (New or Existing)\*\*



Minimum Peak Demand  
100kW

## 3 Primary Revenue/Savings Streams

**Electricity Import Savings**  
*Savings made by the site owner/operator related to reducing their requirement to buy electricity from the local grid*

**Contracted Grid Services**  
*Revenues received by providing contracted balancing services to the local grid. E.g. Frequency Response or the Capacity Market*

**Merchant Grid Services**  
*Revenues received by taking part in currently uncontracted (merchant) energy trading schemes, balancing services and future grid services*

### Project Economics




Scenario	High	Medium	Low
Internal Rate of Return (Unlevered)	13% IRR	10.4% IRR	5.9% IRR

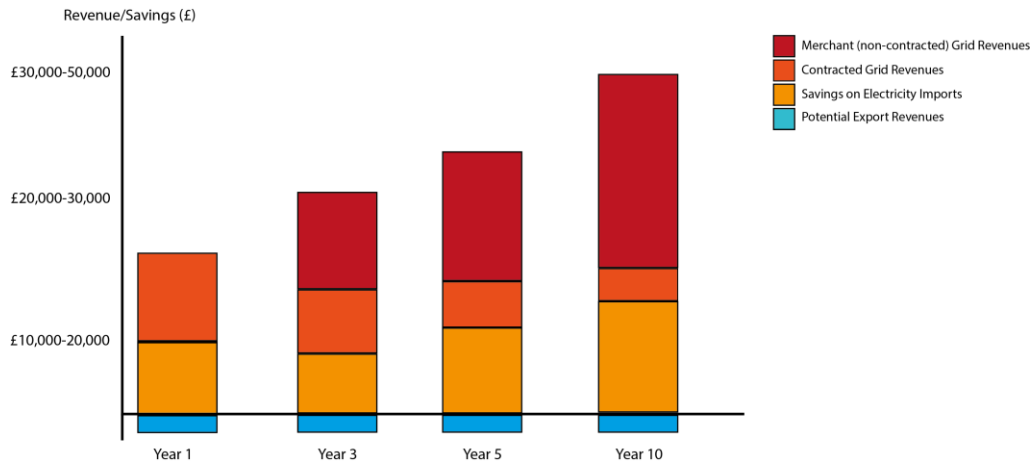
**1391%** Increase in Utilisation of On-Site Generation

**22%** Reduction in Total Imported Electricity

# Case Study: The Olde House, Cornwall

## Site Details

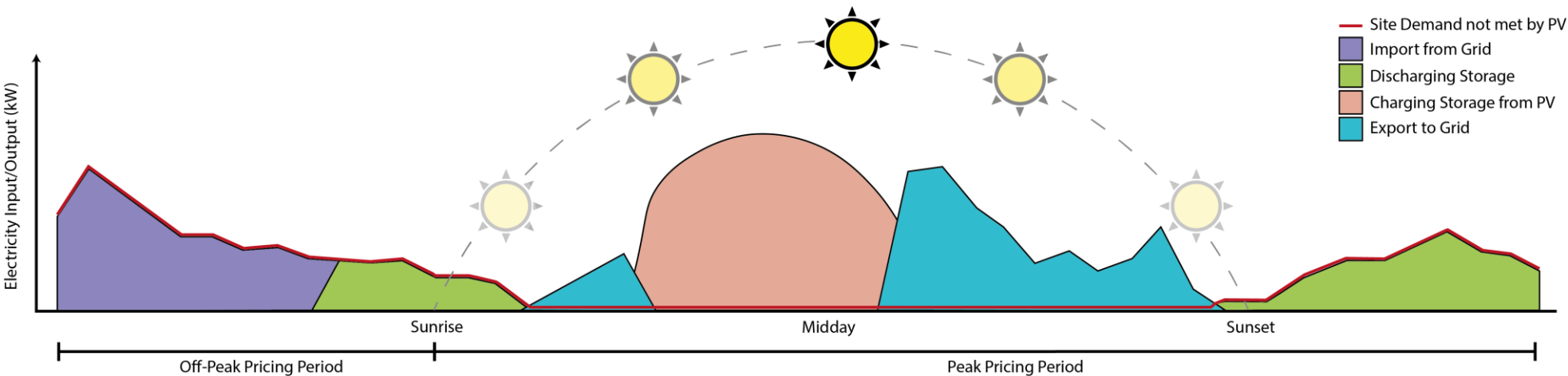
-  600 Acre Farm & Holiday Retreat, Cornwall, UK  
Peak Demand: 130kW, Average Demand: 30kW
-  350kWp Solar Panels (Grid-Connected)
-  90kW, 1,080kWh redT energy storage system



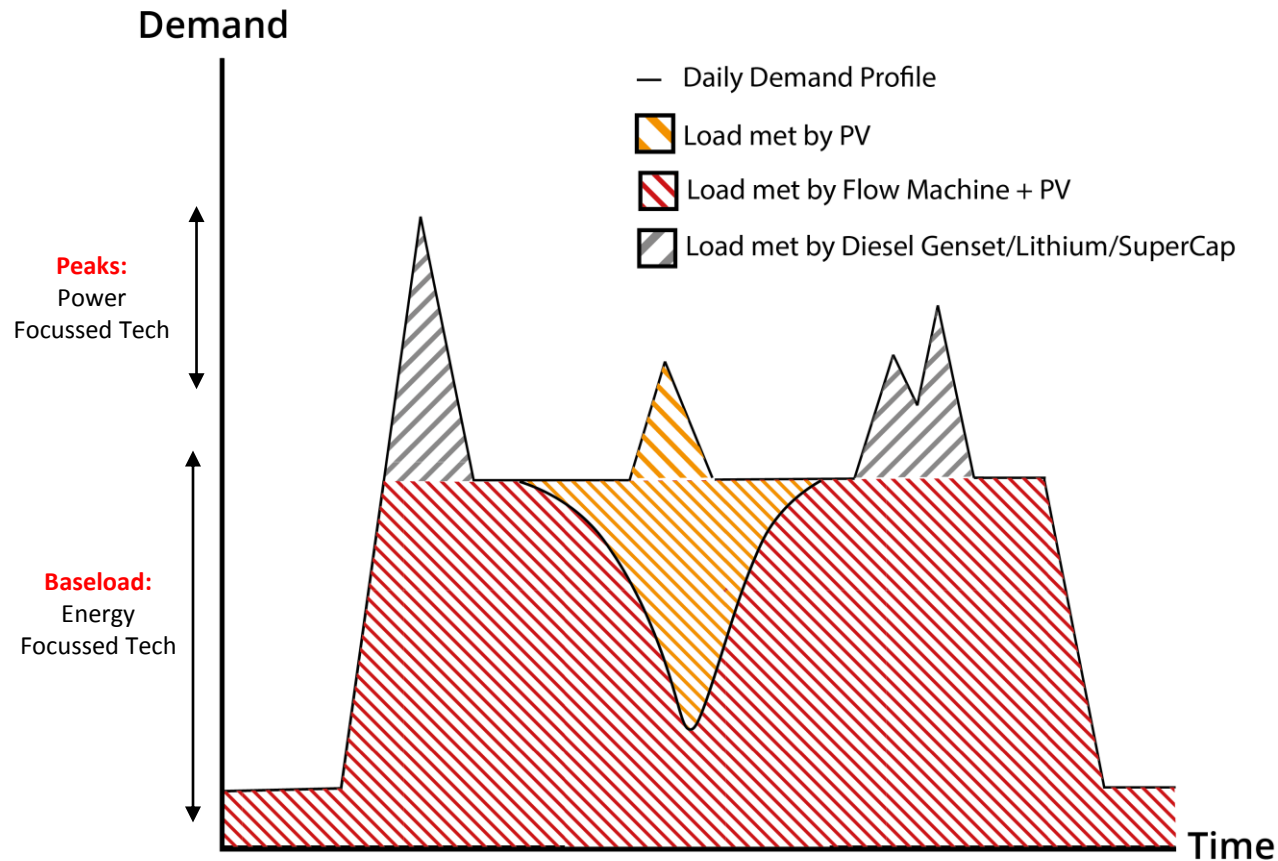
**1822%** Increase in  
Utilisation of On-Site  
Generation

**34%** Reduction in  
Total Imported  
Electricity

**10%** Internal Rate of  
Return (IRR)  
(Unlevered)



# The Future of Energy Storage...



Use flow machines for 80% of demand and/or solar

- Does not degrade - suited to daily, heavy cycling

Use power-focussed technology to cover short term spikes in demand

- Power focussed tech, more suitable for occasional usage

Resulting Hybrid system capable of serving entire market

Questions?

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