

TIME TO SHIFT FROM BEING AN ENERGY CONSUMER TO AN ENERGY PROSUMER



Owners of UPS devices are generating new revenues and saving money from energy storage combined functions

Are you?

Dynamic grids need additional flexibility at times when none is available
Grid operators will pay for UPS that serve as battery energy storage



UPS energy storage allows you to come off grid at peak times

to save money without ever compromising availability

CREATE NEW REVENUE STREAMS THROUGH YOUR NATIONAL GRID

Discover **how much you can earn** each year over a 5-year fixed term contract

REFERENCE DATA CENTRE - IRELAND		DATA HALL	
UPS		20 MW with 5 mins autonomy in N+2 arrangement	
Addressable Load*		9,600 kW	
Available UPS Energy**		320 kWh	

Flexibility Contract Structure (annual incomes on 5 year contracts)	Battery Seconds/Minutes	UPS Only (€000s) <i>9.6 MW load</i>	UPS & Diesel Generators*** (€000s) <i>9.6 MW load</i>
Fast Frequency Response****	0.5 – 10 s	562	562
Primary Operating Reserve	5 – 15 s	495	495
Secondary Operating Reserve	15 – 90 s	299	299
Tertiary Operating Reserve	90 s – 5 m	-	237
Tertiary Operating Reserve (manual)	5 – 20 m	-	189
Steady State Reactive Power (reactive)	Indefinite	39	39
Diesel Generator Income	20 m – 8 hr	-	154
Total Site Revenues p.a. *****		1,400	1,975

Revenues are assumed to be set at regulated rates (based on Nov 2017), although some may be lower due to competitive auctions for high-availability services such as batteries.

Notes
 * Addressable load is 50% of design load with no export capacity.
 ** Available UPS energy is based on 1 minute worth of energy (i.e. 20%) at design load being made available for occasional System Services. This is ½ minute at addressable site load based on a UPS system with 5 minutes of autonomy at design.
 *** Technical feasibility and potential revenues available with extended run-time due to pairing generators with UPS to be confirmed.
 **** Scalar applied to service provided quicker than 2 seconds, the base Firm Frequency Response (FFR) requirement.
 ***** Figures might not sum exactly due to rounding.

Let us be your single point of contact for demand side response:

- A new revenue model for businesses who own UPS devices
- A new model to save energy costs by going off-grid at peak times
- No risk to critical IT or non-IT loads
- You are always in control of power decision making
- No legal, licensing or administrative barriers to entry
- You control the right to opt-out at any time
- Widely used in Germany, Spain, UK, US and growing
- Be part of sensible sustainability