ENERGY STORAGE SOLUTIONS

Powering Construction with Clean Energy
Slashing Diesel Generator Use by 85%

Your Partner in **Sustainable Critical Power**

It is estimated that 40 million litres of diesel are consumed by generators in the Irish construction sector annually, 700 million litres in UK and 14 billion litres across the EU.

PSE technology can reduce that consumption by **66%**

Our Value Proposition

Off-Grid Construction Sites Powered by Diesel Generators		
The Problem	**Our Solution**	**The Results**
✘ Continuous operation of generators ✘ Mandatory Silent Operating Hours Restricts Generator Use ✘ Needless Diesel Consumption ✘ Noise & Fumes ✘ Emissions ✘ Downtime Due to Generator Service Issues ✘ Builders Need ESG Credits for Tenders	 PSE BESS provides power, generator charges battery only when needed	✓ Generator Operation Slashed by 85% ✓ Silence Achieved Through use of Battery ✓ Diesel Consumption more than halved ✓ More Pleasant Work Environment ✓ Emissions Slashed ✓ Increased Uptime Worth €1,000's Per Hour ✓ ESG Score Improves

Our Value Proposition

Crane Application – Elliott Group

Silent Crane operation in residential area with just 2 hours generator operation daily

Whole Site Solution – Clancy

2.5Hr Generator Running
24 Hour Supply to Full Site

Site Compound & Silo Application - Clancy

24 hour supply with 1.5 Hour Generator Operation

CLIENT TESTIMONIAL

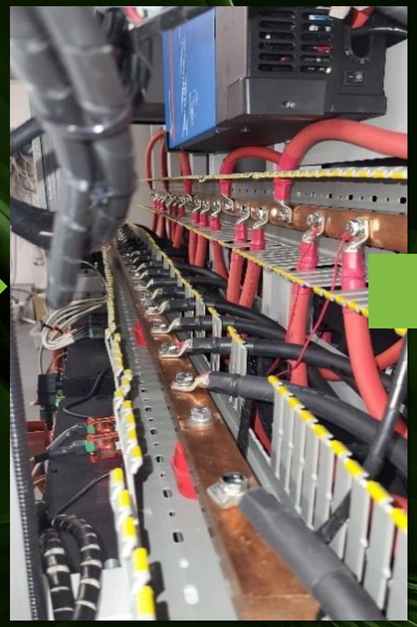
“All our generators were running 11 hours per day prior to the arrival of the battery. Once the system went online, we were immediately able to stand down one of our three 200KVA generators. By the second week we were able to decommission a second generator and were able to reduce the run time of the remaining 200KVA generator to 2.5 hours per day”.

Mark Clancy, Plant Manager, Clancy

What We Do

Battery Cells

Battery Packs With
Battery Management Systems



Plug and Play Energy Storage with Integrated Inverters

PSE Power supply battery energy storage systems in Ireland for both off & on grid applications

We Innovate to Differentiate

Faster Charge/Discharge = Lower Costs

- PSE Batteries reduce generator run-time and require less capacity to deliver the same results
- Fewer materials, lower weight, and reduced system costs

Superior Power Management

- Our Battery Management System (BMS) is rated 50% higher than industry standard – handles peak loads better than competitors

Smaller Footprint by Design

- Compact enclosures make our units smaller than the competition—saving space without sacrificing performance

Real-Time Insight

- Our custom dashboard captures data every second – providing industry leading valuable load profile analytics to customers for equipment like cranes

Battery Energy Storage Range

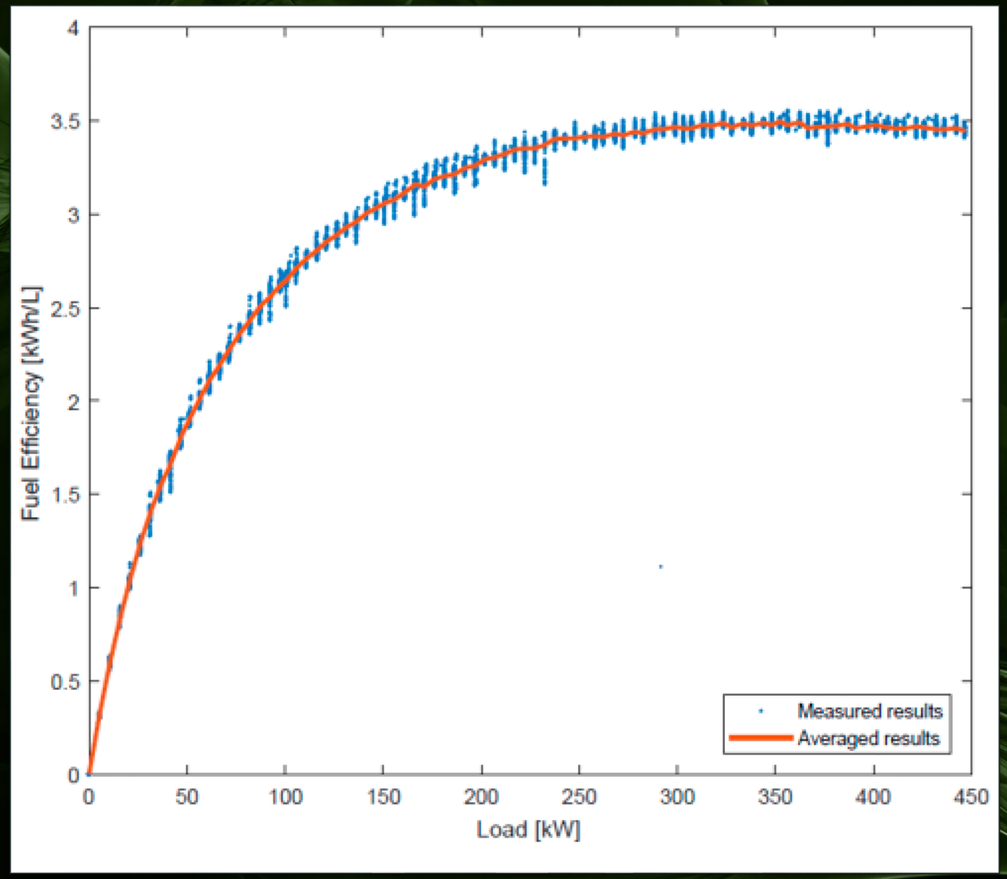
Three Phase Frames

45.60*

90.120*

* Model numbers first two digit number represents KVA output. Second two to three digit number represents battery storage in KWh. For example, a 45.60 has an output of 45KVA and 60KWh of battery storage, a 90.120 has 90KVA output with 120KWh of storage etc

Why BESS with Generators?



Diesel Generator Fuel Efficiency vs Load [1]

[1] Significant Increase in Fuel Efficiency of Diesel Generators with Lithium-Ion Batteries Documented by Economic Analysis

Branding

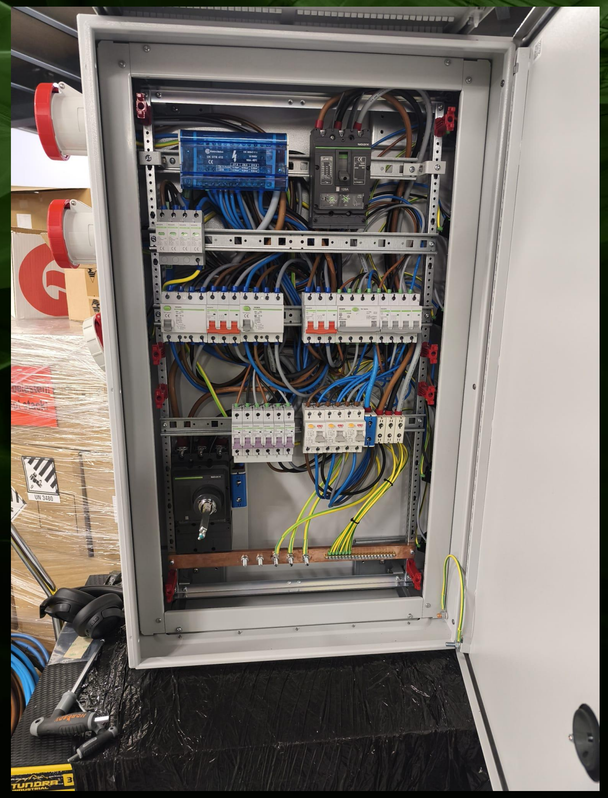

CLANCY
CLANCY
CLANCY
POWERED BY:
JTM energy
ENERGY STORAGE SOLUTIONS
Battery Energy Storage
Battery Energy Storage
Battery Energy Storage


PURCELL
PURCELL
WWW.JTMENERGY.IE


Elliott
GROUP
SMART GENERATOR ESS
Reducing Co² Emissions
Efficient Power - Less Diesel, More Quality
Silent but Mighty - Shorter Run Times,
Happier Neighbours
POWERED BY:
JTM energy
Elliott
GROUP
netZERO


GEM
BUILDING BETTER
SPACES: SUSTAINABLY

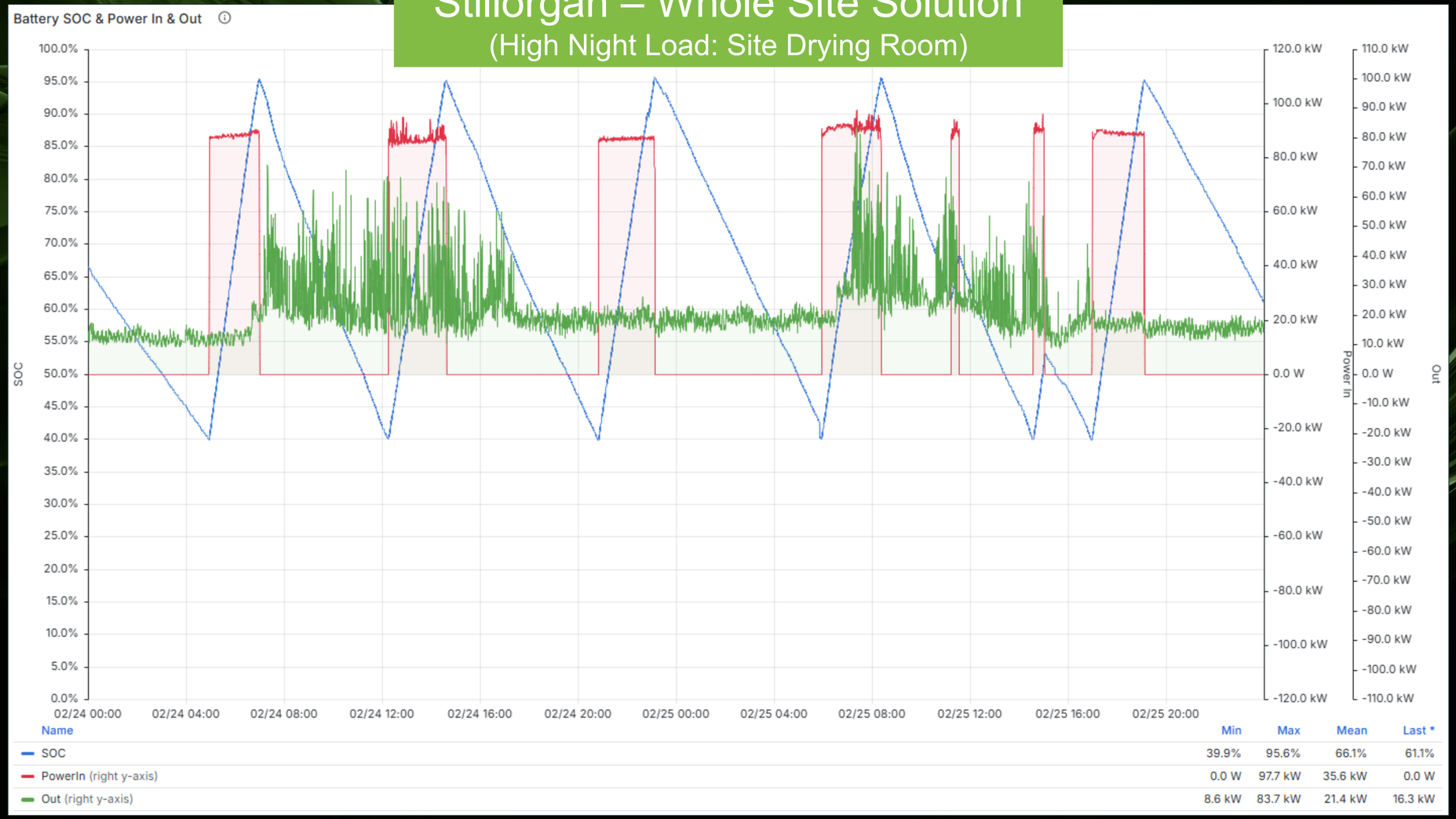
Distribution Boards



Jumpstarters

Case Study 1

Clancy Construction
Stillorgan – Whole Site Solution
(High Night Load: Site Drying Room)



Case Study 2

Date	Day	Peak Demand (KW)	Average Demand (KW)	Site consumption (KWh)	Generator Run Time (Hrs:Mins)	Site Demand (Hrs)
19/05/2025	1	48.2 KW	2.8 KW	61.4 KWh	01:41:00	24
20/05/2025	2	44.1 KW	2.8 KW	62.5 KWh	01:02:00	24
21/05/2025	3	47.6 KW	2.3 KW	46.0 KWh	03:49:00	24
22/05/2025	4	40.3 KW	2.2 KW	50.9 KWh	01:43:00	24
23/05/2025	5	46.3 KW	1.8 KW	47.8 KWh	01:51:00	24
24/05/2025	6	43.2 KW	1.4 KW	34.8 KWh	01:06:00	24
25/05/2025	7	4.2 KW	1.0 KW	22.8 KWh	00:00:00	24
26/05/2025	8	39.5 KW	2.4 KW	60.4 KWh	02:01:00	24
27/05/2025	9	48.8 KW	3.5 KW	92.6 KWh	02:39:00	24
28/05/2025	10	42.1 KW	2.6 KW	64.3 KWh	02:08:00	24
29/05/2025	11	41.7 KW	2.5 KW	59.2 KWh	01:15:00	24
30/05/2025	12	42.4 KW	1.9 KW	47.2 KWh	02:10:00	24
31/05/2025	13	44.1 KW	1.6 KW	37.0 KWh	02:06:00	24
01/06/2025	14	4.2 KW	0.9 KW	21.1 KWh	00:00:00	24
02/06/2025	15	5.2 KW	0.9 KW	20.6 KWh	00:00:00	24
03/06/2025	16	45.2 KW	3.4 KW	84.1 KWh	02:49:00	24
04/06/2025	17	53.6 KW	3.3 KW	77.7 KWh	01:56:00	24
05/06/2025	18	50.9 KW	2.6 KW	64.8 KWh	02:31:00	24
06/06/2025	19	44.7 KW	2.3 KW	51.0 KWh	00:00:00	24
07/06/2025	20	40.8 KW	1.8 KW	33.9 KWh	02:47:00	24
08/06/2025	21	4.2 KW	0.9 KW	20.6 KWh	00:00:00	24
09/06/2025	22	41.5 KW	1.8 KW	47.9 KWh	01:49:00	24
10/06/2025	23	46.0 KW	1.9 KW	41.4 KWh	01:59:00	24
11/06/2025	24	52.2 KW	2.3 KW	51.1 KWh	01:42:00	24
12/06/2025	25	46.9 KW	3.3 KW	71.4 KWh	02:01:00	24
13/06/2025	26	44.3 KW	2.8 KW	61.5 KWh	02:07:00	24
14/06/2025	27	6.1 KW	1.0 KW	22.8 KWh	00:45:00	24
15/06/2025	28	3.5 KW	1.1 KW	58.7 KWh	00:00:00	24
16/06/2025	29	32.6 KW	2.0 KW	76.4 KWh	02:13:00	24
17/06/2025	30	46.0 KW	2.6 KW	51.0 KWh	00:00:00	24
18/06/2025	31	46.6 KW	3.1 KW	52.4 KWh	03:46:00	24
Totals	**Totals**	**53.6 KW**	**2.1 KW**	**1,585 KWh**	**49:58:00**	**744**

Elliott Construction
Crane and Small Drying Room

Highlights

- Generator Size: 150KVA
- Average Load: 2.1KW
- Crane Peak Load: 53.6KW
- Site Demand: 24 hours, 744 hours in period
- Generator run time over the month: 50 hours
- Reduction in Generator Operation: 93%

Contact Information

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Thank You!

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