CrowdHouse™
ENERGY

About Us

- Incorporated in 2019, CrowdHouse Energy is an innovator within the clean technology space with over 35 years of combined experience in the renewable industry.
- We offer premium on-site renewable energy solutions, engineered for the urban environment.
- In late 2022, we launched our patent-pending bifacial solar parking canopy, Helios Volt®.
- Nominated as a finalist for Product of the Year 2023 by Edie Awards and finalist in the London Construction Awards 2024.

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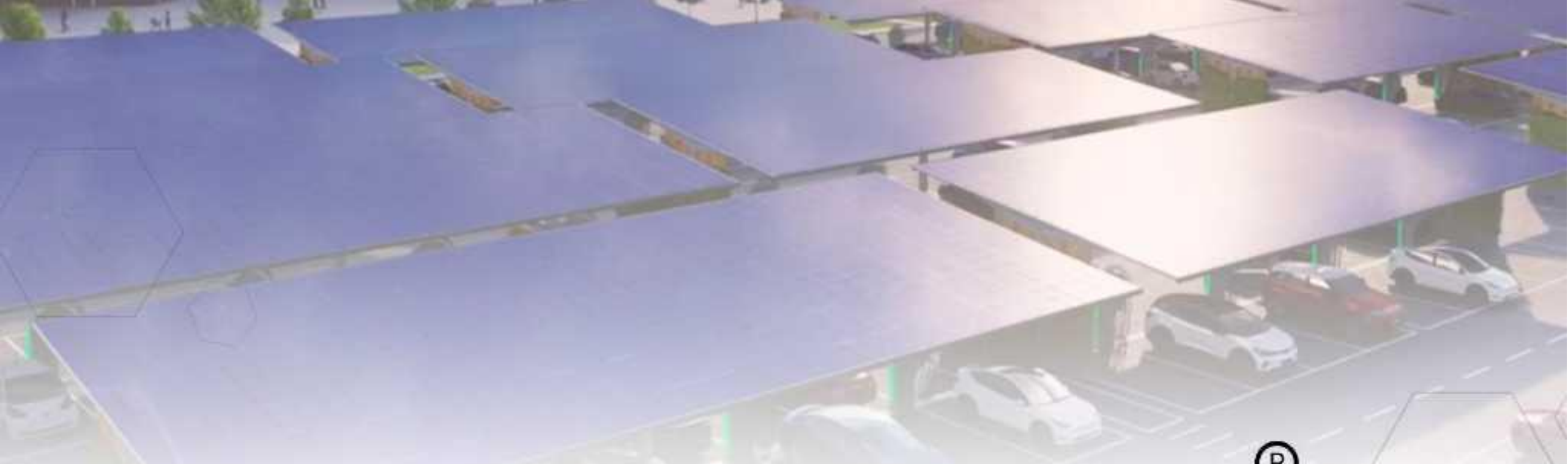

HELIOS VOLT®

CREATING POWERFUL SPACES™

What is Helios Volt®?

- Helios Volt® is a bespoke, watertight Bi-Facial PV Parking Canopy, designed to deliver low-cost, low-carbon, and reliable energy.
- It is modular, fully factory-assembled, and delivered as a plug-and-play system, reducing build time by 70%and costs by 25%.
- It integrates seamlessly into battery storage, grid connection, and EV charging

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FS – Free Standing

The free-standing, self-ballasted variant can be moved and transported when needed, giving the client maximum asset mobility and a lower project cost due to the lack of civil works.

PF – Permanent Foundation

The permanent foundation variant is our most popular design. The civil foundation ensures stability and security even in windier, coastal locations.

MSR – Multi Story Roof

The multi-story variant allows clients to monetise the roof-top of their multi-storey car park, exploiting the underutilised space and opening new revenue streams.

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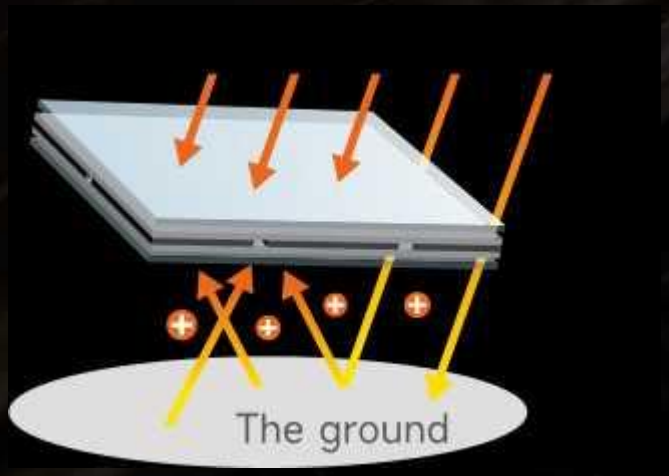
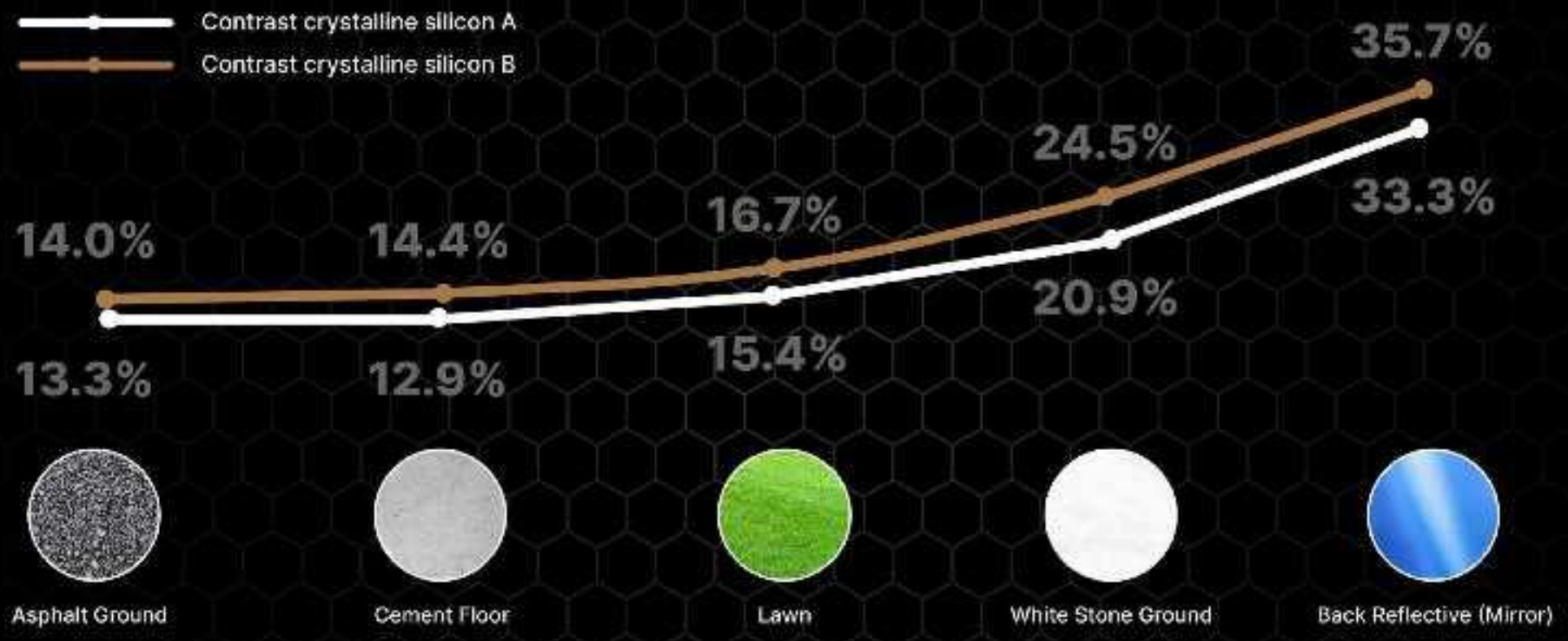
Hype

- The power lies in the Hypernova ™ modu
- Composed of 4 750W bifacial heterojunction t
  panels*, structurally bonded to the aluminium
- Completely watertight with integrated cableways.
- No rear cells being covered by the structure allowing full Albedo harvesting, and an additional energy gain of between 15-35%.
- Factory assembled and quality assured before leaving for your installation site.



* We reserve the right to change module manufacturer

Power generation gain of HJT bifacial module power station



*According to Huasun data: the output gain of Huasun HJT bifacial modules can reach more than 30%

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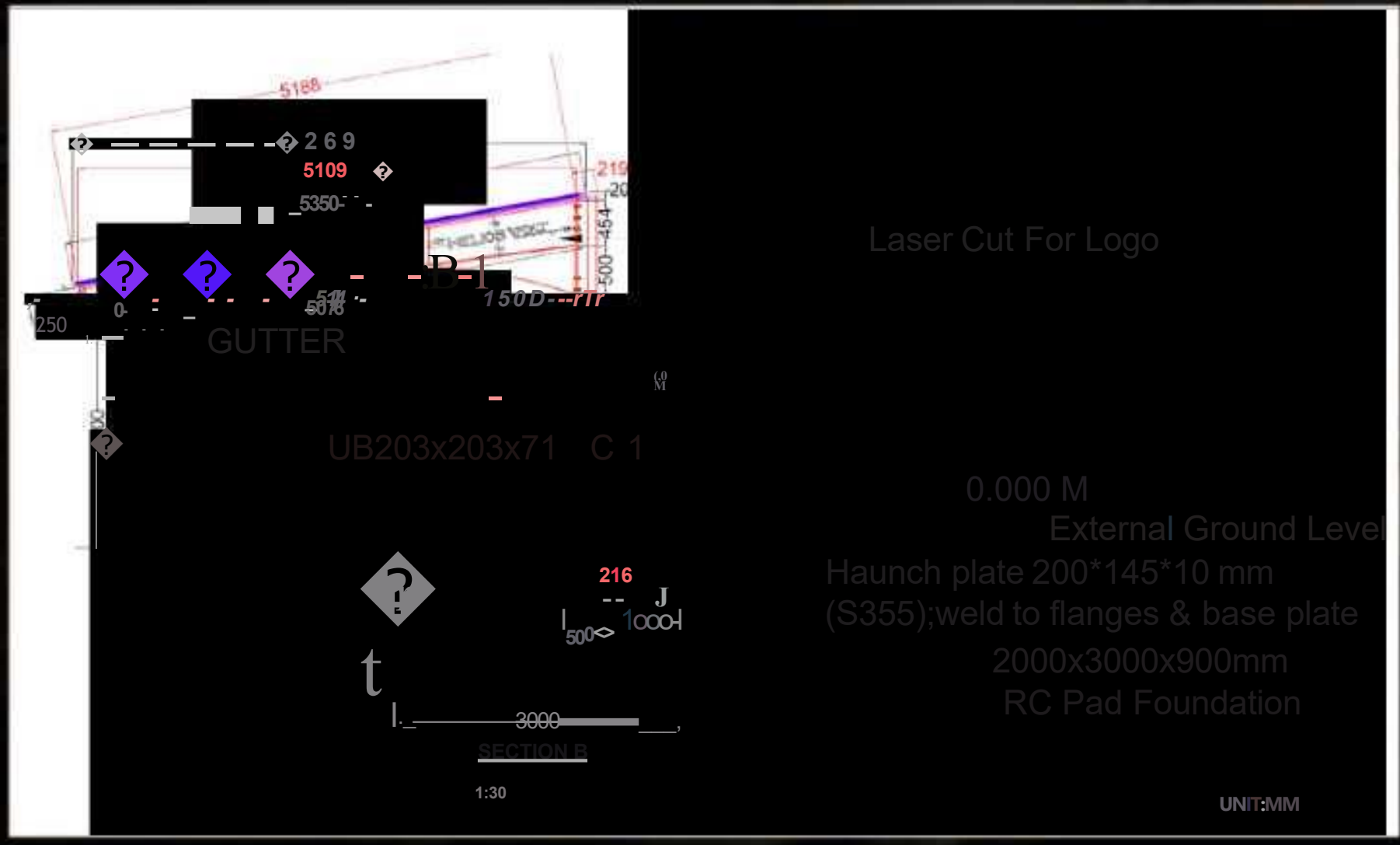

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Accenture Business Park

Our First Newcastle PV Canopy Installation

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HELIOS VOLT®

In conclusion...

UK Manufactured

Factory Assembled

Modular Design

Reduced Installation Time

The Helios Volt® PURE Bifacial PV Canopy represents a **transformative advancement** in solar energy harvesting, designed to **maximise power generation** through cuttingedge PURE bifacial module technology.

By capturing both direct and reflected solar irradiance, and **optimising for high-albedo environments**, this UK manufactured, factory-assembled system offers up to **47% more power per square metre.**

With multiple structural variants and a **modular, watertight design**, it provides an **efficient, future-ready solution** for **sustainable energy generation in car parks, rooftops, and beyond.**

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This is Just the Beginning...

We have over 16 active Rooftop & PV projects ongoing with the biggest healthcare provider in the UK, the NHS!

Highlights Include...

1. Freshney Green Primary Care Centre
   System Size: 258 kWp
2. Fleetwood Health & Wellbeing Centre
   System Size: 188.76 kWp
3. The Aspen Centre
   System Size: 107.83 kWp
4. Birkenhead Medical Building
   System Size: 98.8 kWp

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POTTS PRINT

A CrowdHouse Energy Case Study

System Size	Annual Generation	Carbon Saved Annually	Panels installed
438.6kWp	366.8 MWh	70 tonnes of CO_2e	DAS Solar – 455W

The solar PV installation at Potts Print (UK) has **delivered outstanding results**, solidifying **commitment to sustainability** while **achieving substantial financial benefits**. With an annual **energy output of 369,928 kWh**, the system now **powers a significant portion of Potts Print's operations**, **reducing its reliance** on grid electricity and **contributing to its energy independence**.

Environmentally, **the system has made a notable impact** by reducing Scope 2 carbon emissions by **70 tonnes of CO_2e annually**, helping Potts Print align with its broader sustainability objectives. This achievement positions the company as a leader in the printing industry's transition **towards cleaner, greener energy practices.**

Financially, the installation has proven to be **a game-changer**, offering **energy savings of up to £16,500 per month.** Over a 30-year period, the **total energy value is projected to reach £4.18 million**, ensuring long-term economic stability. Additionally, the project boasts a **remarkable return on investment (ROI) of 1954%**, with a payback period of 1.8 years. This demonstrates how renewable **energy investments can be both environmentally and financially transformative.**

By adopting this innovative solar solution, **Potts Print has set a benchmark for sustainability** within the printing industry, exemplifying how businesses can **successfully merge environmental responsibility with economic advantage.**

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HelioScope Simulation Comparison

Location	Azimuth and tilt °	Canopy c omparison (over 1,500m2)		Modules used and PV cell type	Bifacial gain from rear cells	Annual solar production	Reduction in CO2 t/CO2e
Bordeaux Airport	180/10	Helios Volt®		Hypernova 54™ x 5,920W HJT PV Cells	Up to 35% Average of 24% calculated	475,568 kWh	185
Bordeaux Airport	180/10	Bifacial Modules		Trina Solar Vertex N-Type 432 x 680W	10%	383,129 kWh	149
Bordeaux Airport	180/10	Shed Style		N-Type or Perc Q Cell Duo XL 595 x 590W	N/A	325,904 kWh	127

* HelioScope simulation reports available on request

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