

Appendix A SWANSEA ENERGY & TRANSPORT HUB



OUR MISSION

ACCELERATING THE
TRANSITION TO RENEWABLE
ENERGY BY DELIVERING
ENVIRONMENTS THAT WORK
IN HARMONY WITH NATURE
AND NURTURE INNOVATION.

"Swansea Transport Hub and Port Development holds dear the importance of place. A place to live and thrive, providing prosperity and development, whilst recognising the importance of being a custodian for future generations.

The regeneration of our towns and cities is an opportunity for nature to power change and for sustainable and enriching environments to power future generations."

Tony Miles

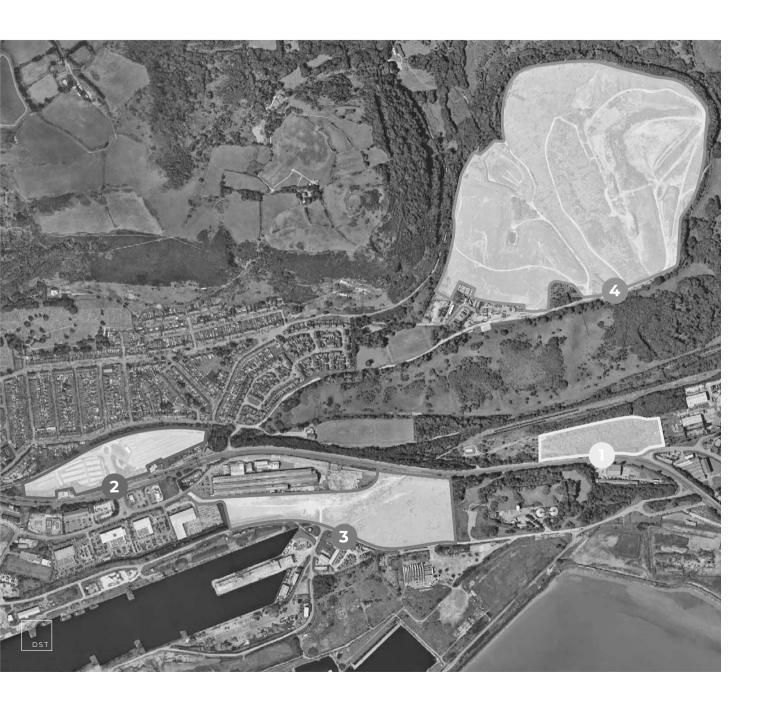
A DESIGN FOR THE FUTURE



DST



SWANSEA ENERGY & TRANSPORT HUB



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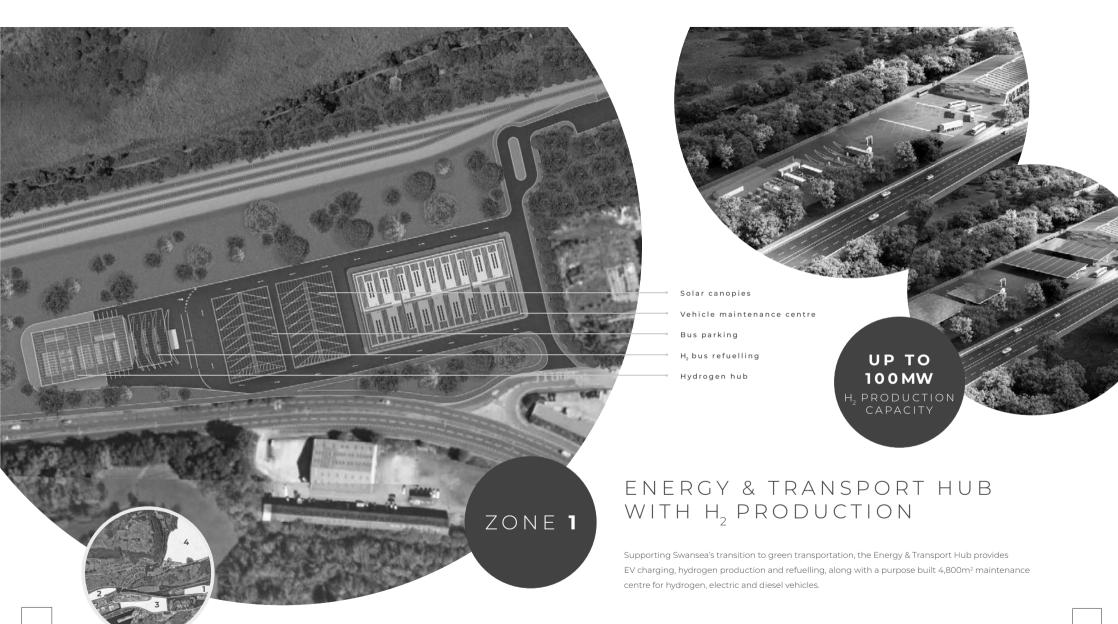
People, energy, and innovation working in harmony.

Energy & Transport Hub with $\rm H_2$ Production - Zone 1
Park & Ride - Zone 2
Energy & Transport Hub - Zone 3
Solar and Battery Farm - Zone 4



ZONE 1

ENERGY &
TRANSPORT
HUB WITH H₂
PRODUCTION

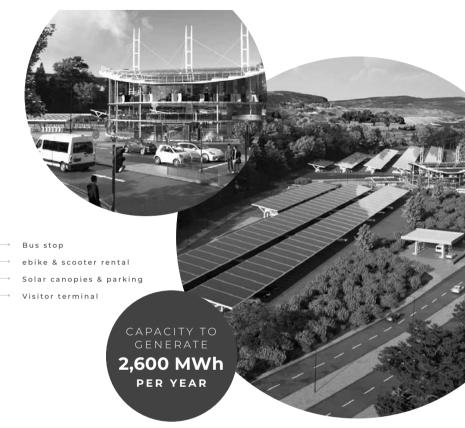


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ZONE 2 PARK & RIDE



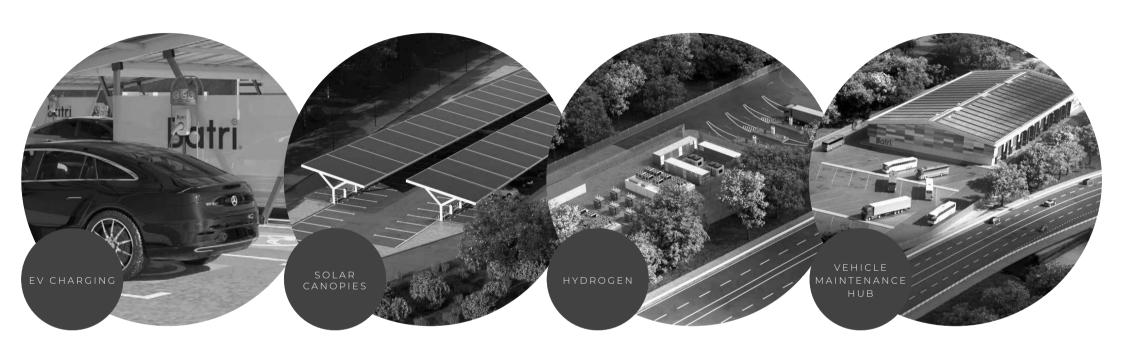


PARK & RIDE

Developing the existing park and ride facility that currently supports 573 vehicles, the reimagined centre will accommodate up to 790 canopied spaces generating more than 2,600 MWh of green energy annually.

The onsite EV charging facilities will offer a range of charging speeds. Visitors can access public transport links or enjoy the restaurant and flexible working areas located in a new green building within the complex.

TECHNOLOGY & ENERGY AT ZONES 1 & 2



EV CHARGING - Fast, Rapid and Ultra Rapid chargers available across the energy zones.

SOLAR CANOPIES - over 20,000m² of solar canopies generating power for use across the zones.

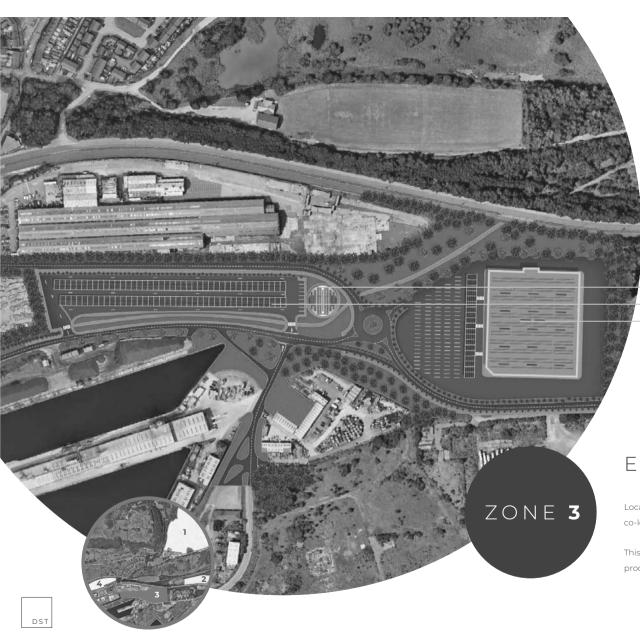
HYDROGEN PRODUCTION & REFUELLING -

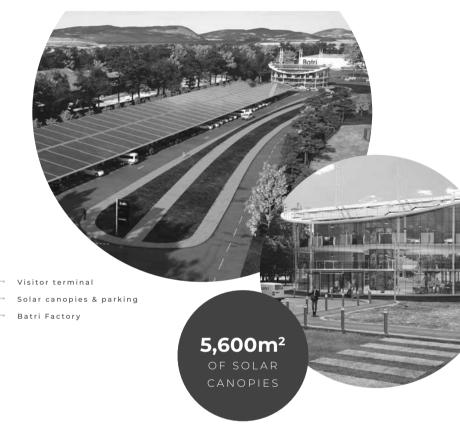
a minimum of 12 tonnes of $\rm H_2$ can be produced at the Swansea location per day – enough to fuel the equivalent of 340 buses or 800 refuse vehicles.

VEHICLE MAINTENANCE HUB - built to service 40 vehicles at a time.



ZONE 3 ENERGY & TRANSPORT HUB





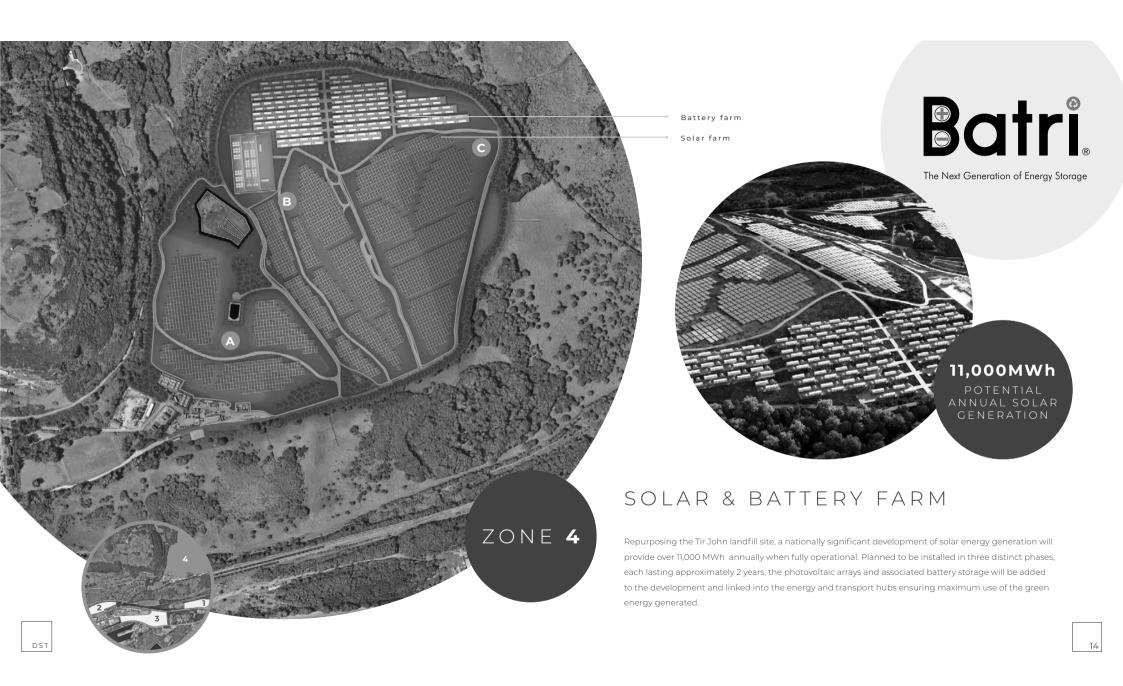
ENERGY & TRANSPORT HUB

Located on the port side of Fabian Way, the hub provides over 350 covered solar canopy parking spaces, co-located with restaurants and working spaces, along with the Batri manufacturing training facility.

This is the first stage of the proposed giga factory development, designed to train staff and scale production for the ISGWh facility that is planned adjacent to the hub.



ZONE 4 SOLAR & BATTERY FARM



TECHNOLOGY & ENERGY AT ZONES 3 & 4



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SWANSEA PORT DEVELOPMENT



PORT DEVELOPMENT

People, energy, and innovation working in harmony.

Batri Giga Factory - Zone 5
Data Centre & District Heating - Zone 6
Domes & Recreation Area - Zone 7
Eco Homes - Zone 8
Tidal Lagoon - Zone 9
Floating Solar Array - Zone 10
Lagoon Littoral - Zone 11



ZONE 5 BATRI GIGA FACTORY





BATRI GIGA FACTORY

A 60,000m² battery manufacturing centre (15GWh capacity), is set to employ over 1,000 people and place Swansea as a global hub for green energy technology.



ZONE 6

DATA CENTRE & DISTRICT HEATING



Data centre DATA CENTRE & DISTRICT HEATING

At 94,000m², this substantial data centre will be the first off grid data centre in the UK, entirely powered by an uninterruptable renewable energy supply and Batri back-up.

Waste heat generated from the building will be repurposed as a continuous supply of heating for surrounding businesses and homes, contributing to Swansea's sustainability targets and firmly placing the development as a world leader in innovation and green thinking.



ZONE 7

DOMES & RECREATION AREA





DOMES

Designed by industry leaders Blue21, the series of domes will become cultural and scientific centres to be enjoyed by all.

Inspired by the Floating Rotterdam Pavilion created by Rutger De Graaf-van Dinther, Dr Bart Roeffen, Karina Czapiewska and their team, the domes will become iconic landmarks on the coastline and provide a snapshot of the future of waterside developments.





RESEARCH & INNOVATION CENTRE

Placing academic research and innovation at the heart of the development, the facility will be a worldwide hub for the vital work needed to address climate change, cementing Wales as the centre for knowledge and skills in this field.



ZONE 8 FLOATING ECO-HOMES





FLOATING ECO-HOMES

Situated in the vibrant waterfront, a balanced mix of affordable housing and assisted living areas, along with houses and luxury apartments will enable a diverse community to develop and grow.

Floating homes, inspired by the water homes located in the city of Delft, employ the latest innovation and technology and provide housing solutions with minimal ecological impact. Included as part of this unique development, each home will have up to 20 years' renewable energy and heat provision included with the sale of the property.



ZONE 9 LAGOON





ZONE 10 FLOATING





FLOATING SOLAR ARRAY

At 72,000 m2 this will be the largest floating solar array in the UK, capable of generating up to 5,250 kWp of energy. An array of this size is estimated to prevent over 2,000,000 kg of CO2 per year.



ZONE 11 LAGOON LITTORAL





LAGOON LITTORAL

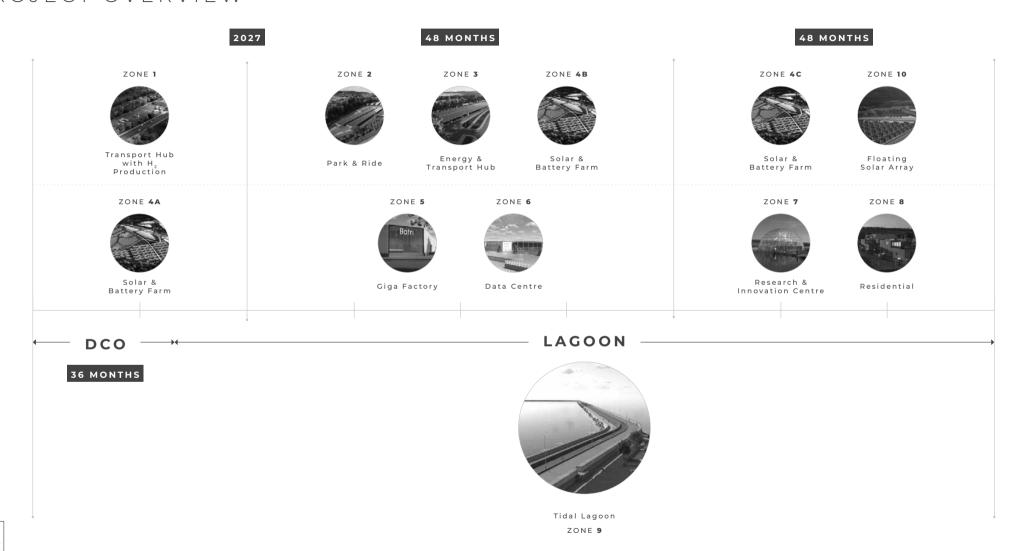
Located in the eastern section of the Swansea development, the area comprises of parking and recreational areas, battery utility and services area, along with access to the 9.5km lagoon walkway.

TECHNOLOGY & ENERGY AT ZONES 5 - 11



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PROJECT OVERVIEW



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For more information please contact

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SWANSEA ENERGY & TRANSPORT HUB

All PV generation data is modelled using historical solar data and is for forecasting purposes only Forecast hydrogen production data provided by the equipment supplier is correct at time of issue All proposed timelines are incumbent on planning authorisation and subject to change

Confidential: DST Innovations Ltd, Batri Ltd, 2023