

Swansea Bay Tidal Lagoon: Pioneering world-first energy generation and visionary placemaking

The proposed Swansea Bay Tidal Lagoon is the first purpose-built tidal range power station in the world. It represents a new generation of renewable carbon-free energy production for the UK. The lagoon would have a net annual power output of over 500 GWh per annum; enough to meet the annual electricity requirement of over 155,000 Welsh homes.

LDA Design is advising Tidal Lagoon Power (TLP) on a possible fleet of lagoons and was appointed as project advisor, masterplanner, lead design consultant and landscape architects for the public realm for the Swansea Bay Tidal Lagoon project.

Our work included support to the design development phase and the preparation for the DCO planning application. We were retained as masterplan guardians through the design development phase and discharge of the DCO requirements.

The masterplan provides improved connections for existing and proposed development in the area, facilitates long-term planning of redundant port areas, secures improved connections to the city and establishes a new maritime park as part of the repair of the Bay's coastline. A catalyst for regeneration, it uses pioneering new infrastructure as the basis of visionary placemaking.



Client
Tidal Lagoon Power

Location
Swansea, Wales

Partners

Atkins, Juice Architects, Faulkner Brown, Costain, HR Wallingford

Services

Masterplanning, Landscape Architecture, Environmental Planning

Area
1900 ha

Schedule
2013 - ongoing

¹ Lagoon wall extending to the turbines

² Visitor centre and rock pools
(Image courtesy of Juice Architects)

³ Sailing Centre
(Image courtesy of Faulkner Browns Architects)