



## Hinkley Point C (UK) Sheet Waterproofing

<b>Country</b>	United Kingdom
<b>Type</b>	Nuclear Power Station
<b>Client</b>	NNB Generation Company (HPC) Limited & EDF
<b>Main Contractor</b>	Balfour Beatty Civil Engineering Limited, Costain
<b>Execution of the work</b>	Renesco as
<b>Designer</b>	CH2M
<b>Construction Period</b>	2019-2020

## Project Description

The project will see the construction of three tunnels under the seabed that will supply the two reactors at Hinkley Point C (HPC) with cooling water and then discharge it back into the Bristol Channel.

Inlet and Outlet cooling water tunnels. The offshore tunnels are to be constructed using EPB Tunnel Boring Machines (TBM) and the various onshore shafts and tunnels through mechanical excavation and Sprayed Concrete Lining (SCL) support.

Two identical onshore tunnels, namely the Diversification Galleries (DG Unit 1 & Unit 2), which are approximately 35m in length with identical internal cross-sectional dimensions and alignment, will be constructed. Both Galleries shall be required to be waterproof lined prior to cast RC permanent works. The tunnel profile comprises a sprayed concrete primary lining of radius 2.6m and a 4m wide flat invert (blinded).

## Scope of Service

Supply and Installation of Waterproofing to Diversification Galleries/ Marine Works at Hinkley Point C.

- PVC-P Sheet Waterproofing, 3mm
- Polypropylene (PP) Geotextile, 1'000g/m<sup>2</sup>
- PVC-P Protection Sheet Membrane, 2mm
- Water barriers 600mm, 6 ribs
- Injection/ Grouting/ Back-up System
- Contact Grouting Devices
- BA - anchors



1. Nuclear Power Plant
2. Substrate/ Shotcrete
3. Diversification Galleries incl. sheet waterproofing