

Overview

The presentation discussed the potential adoption of large scale off site modular construction of nuclear components to reduce risks leading to delivery of projects to time and cost. There is a vision that by 2030 nuclear power plants should be operating with a significant proportion of UK manufactured components. However this is against the background of a global industry that has a poor delivery record with delays to on site construction resulting in severe cost overruns.

Points covered included:-

- Examples of the successful application of offsite module construction by Cammell Laird for the marine sector.
- The status of the U Battery micro nuclear power plant with the principle that complete power plants could be manufactured offsite in purpose built facilities.
- Small Modular Reactors (SMR) and ranges of sizes (MW thermal and electrical)
- Other energy production projects (offshore wind turbines, tidal etc...) which Cammell Laird is involved in.
- Comparison of potential costs between the different energy sources.

Overall a first class, very thought provoking presentation which was followed by a stimulating question & answer session. Attendance was very good, despite Storm Doris which occurred on the day of the event. DATS Ltd sponsored the event by covering the catering costs. Feedback forms confirmed a well-received, successful, joint event by the IMechE & EI.

Neville Snodgrass
CEng FIMechE