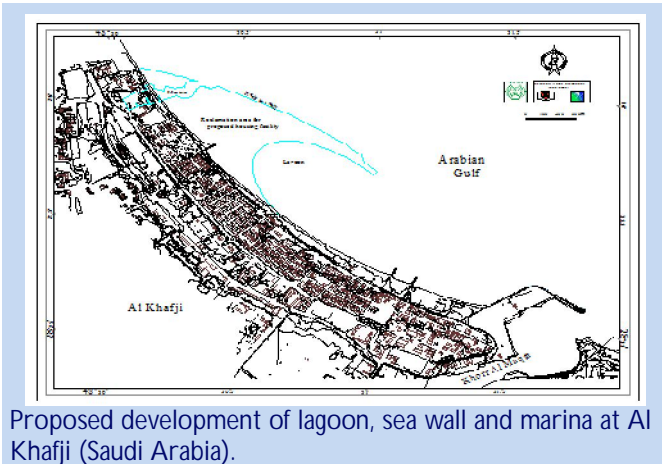




## COASTAL DEVELOPMENT

**Recreational development:** “Project Iceberg” was a proposed coastal development in the Kingdom of Bahrain to create an offshore island and construct a recreational facility including cinema, ski and snow-boarding slope with a power station to supply 35,000 kW/hour of electricity. **Envision:**

- Provided an assessment of environmental impacts of the development for the construction and operational phases to meet the requirements of the statutory planning process.
- Assessed the local fishery for any possible impacts during the construction phase.

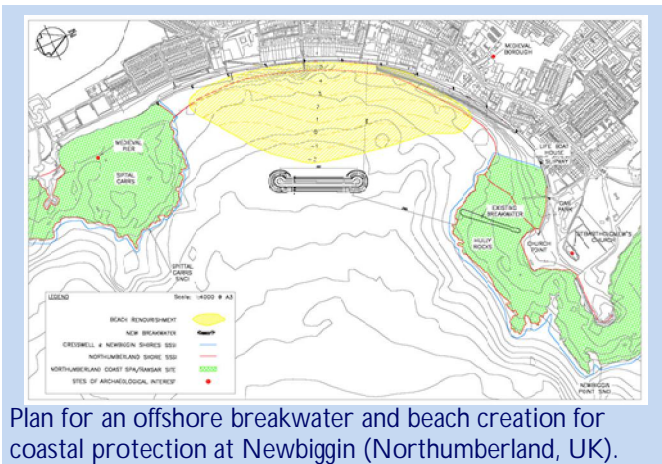


**Industrial development:** The al Khafji Joint Operations in Saudi Arabia planned extensive redevelopment in the operations area. The development required building a 2.6km sea wall, creation of a lagoon and marina and relocation of a coastguard station, while protecting a range of sensitive biological habitats. **Envision:**

- Identified and mapped sensitive marine habitats and assessed the impact of the development.
- Identified mitigations to environmental impacts and procedures for the construction phase.

**Protecting sensitive habitats:** At Newbiggin by the Sea (Northumberland, UK) a new coastal protection scheme was developed to defend the town, including recreation of the beach and an offshore protective breakwater. However, the important reef building worm *Sabellaria* (protected), had been detected at the breakwater site in a previous study, and would impact any construction in the area. **Envision:**

- Carried out a marine video survey of the seabed and found the species to be absent, therefore allowing development of the sea defence to go ahead.



**“New town” development:** to meet the growing housing needs for >100,000 people a suite of inshore islands was developed in Bahrain in a €1.5 billion development. **Envision:**

- Carried out a scoping exercise of the potential impacts and full assessment of the main impacts.
- Made an assessment of the fisheries and engaged with local fishermen who used the area.
- Identified a suite of mitigations to possible environmental impacts as well as promoting environmental enhancements.