

# Underwater Noise Mitigation Strategy



**Capability and Experience for full offering presented**  
Includes specialist bio-acousticians and an underwater noise regulatory specialist / former decision maker at NOPSEMA.

## The Challenge

Underwater noise mitigation is one of the key environmental factors for decision makers of offshore projects. A significant industry challenge is designing and constructing offshore windfarms in areas of high value for noise sensitive threatened species, such that the project adequately mitigates underwater noise, meets statutory requirements and is approvable under the EPBC Act\*.

## Why Energise?

Our specialist practitioners have experience in administering statutory requirements of the EPBC Act. Our offshore environmental impact assessment practitioners have extensive experience in underwater noise mitigation in the Australian offshore setting. We will work with your engineering and environment teams to solve underwater noise challenges, optimise costs and enhance efficiency in the approvals process.

### Marine fauna underwater noise desktop assessment

- Species of concern identified and habitat utilisation described
- Sensitivity modelling to determine potential areas of impact

### Identification of feasible control measures

- Site selection
- Turbine design considerations
- Installation methodology
- Engineering controls for the near field
- Consultation with in-house and developer engineers

### Comprehensive acoustic modelling

- Apply adopted mitigations and undertake comprehensive acoustic modelling

### Administrative mitigation strategies for residual impacts

- Temporal restrictions
- Spatial restrictions
- Detection platforms
- Observation, low power and shutdown zones

### Prepare report

- Mitigation measures and justification for how they ensure acceptable levels of impact are met
- Monitoring, noise verification and adaptive management plan
- Implementation plan for mitigation

### Outcome

- Cost effective environmental mitigation solutions to address one of the most significant factors for offshore windfarm approvals in Australia

\*Environmental Protection and Biodiversity Conservation Act 1999

