

Supplementary Material:

Table S1. A complete list of the 118 projects evaluated to determine the type and number of methodologies and technologies used to monitor for each stressor presented in Tables 3-8.

Project	Continent	Country of Origin
Ghana TC's Energy	Africa	Ghana
BaiShakou Tidal Power Station	Asia	China
Haishan Tidal Power Plant	Asia	China
Jiangxia Pilot Tidal Power Plant	Asia	China
Wanxiang-I Project	Asia	China
Wanxiang-II Project	Asia	China
IHI Ocean Current Turbine	Asia	Japan
Sihwa Tidal Power Plant	Asia	South Korea
Uldolmok Tidal Power Station	Asia	South Korea
BioWave Port Fairy Pilot Wave Energy Project	Australia	Australia
Clarence Strait Tidal Energy Project	Australia	Australia
Oceanlinx MK1	Australia	Australia
Oceanlinx MK2	Australia	Australia
Oceanlinx MK3	Australia	Australia
Perth Wave Energy Project	Australia	Australia
San Remo	Australia	Australia
Wave Rider Wave Energy Pilot Plant	Australia	Australia
Wave Swell Energy King Island Project	Australia	Australia
Wave Energy Technology - New Zealand	Australia	New Zealand
Crestwing Prototype Tordenskiold	Europe	Denmark
Folkecenter Wave Test Station	Europe	Denmark
Poseidon Floating Power	Europe	Denmark
Vestmannasund DG100	Europe	Denmark
Wave Star Hanstholm	Europe	Denmark
Wavepiston V4	Europe	Denmark
WESA Åland	Europe	Finland

La Rance Tidal Barrage	Europe	France
Paimpol-Brehat Tidal Demonstration Project	Europe	France
Ria Etel P154	Europe	France
Sabella D10	Europe	France
Site d' Expérimentation en Mer pour la Récupération de l'Energie des Vagues (SEM-REV)	Europe	France
Atlantic Marine Energy Test Site	Europe	Ireland
Galway Bay Test Site	Europe	Ireland
Ireland Floating Wind and Wave	Europe	Ireland
Testing of Ocean Energy Buoy at Galway Bay, Ireland	Europe	Ireland
Enermar Project	Europe	Italy
Fri-El Seapower - Messina Project	Europe	Italy
Morild II Tidal Power Plant	Europe	Norway
Seabased at the Maren Site	Europe	Norway
Waves4Power Wave El Buoy	Europe	Norway
Companhia da Energia Oceanica SA (CEO) - Agucadoura	Europe	Portugal
Ocean Plug	Europe	Portugal
Pico Oscillating Water Column	Europe	Portugal
SURGE Waveroller	Europe	Portugal
Biscay Marine Energy Platform (BiMEP)	Europe	Spain
Mutriku Wave Power Plant	Europe	Spain
OCEANTEC Wave Energy Converter 1:4 prototype	Europe	Spain
OCEANTEC Wave Energy Converter	Europe	Spain
PLOCAN Marine Test Site for Ocean Energy Converters	Europe	Spain
CorPower Ocean-Scapa Flow, EMEC	Europe	Sweden
Lysekil Wave Energy Site	Europe	Sweden

Söderfors Project	Europe	Sweden
Sotenäs Project	Europe	Sweden
Anglesey Skerries Tidal Stream Array	Europe	United Kingdom
Argyll Tidal Demonstrator Project	Europe	United Kingdom
Atlantis Resources Corporation at EMEC	Europe	United Kingdom
Brims Tidal Array	Europe	United Kingdom
Costa Head Wave Farm	Europe	United Kingdom
Dyfed Floating Energy Park	Europe	United Kingdom
Eco Wave Power wave energy power station Gibraltar	Europe	United Kingdom
EMEC Brillia Croo Grid-Connected Wave Test Site	Europe	United Kingdom
EMEC Fall of Warness Grid-Connected Tidal Test Site	Europe	United Kingdom
EMEC Scapa Flow Non Grid-Connected Wave Test Site	Europe	United Kingdom
EMEC Shapinsay Sound Non Grid-Connected Nursery Tidal Test Site	Europe	United Kingdom
Fair Head Tidal Array	Europe	United Kingdom
Falmouth Bay Test Site (FabTest)	Europe	United Kingdom
Farr Point Wave Array - Phase 1	Europe	United Kingdom
HS1000 at EMEC	Europe	United Kingdom
Katanes Floating Energy Park	Europe	United Kingdom
Kyle Rhea Tidal Stream Array Project	Europe	United Kingdom
MeyGen Tidal Energy Project - Phase I	Europe	United Kingdom
Nautricity at EMEC	Europe	United Kingdom
North West Lewis Wave Array	Europe	United Kingdom
Nova Innovation - Shetland Tidal Array	Europe	United Kingdom
Ocean Flow Energy - Sanda Sound	Europe	United Kingdom
Ocean Power Technologies Moray Firth	Europe	United Kingdom
OpenHydro Alderney	Europe	United Kingdom
Oyster 1 at EMEC	Europe	United Kingdom
Oyster 800 at EMEC	Europe	United Kingdom

Pelamis Wave Power P2 Demonstration at EMEC	Europe	United Kingdom
Perpetuus Tidal Energy Center	Europe	United Kingdom
PLAT-O at EMEC	Europe	United Kingdom
PowerKite Deep Green	Europe	United Kingdom
Ramsey Sound	Europe	United Kingdom
ScotRenewables SR2000 at EMEC	Europe	United Kingdom
Sound of Islay Demonstration Tidal Array	Europe	United Kingdom
Strangford Lough - MCT (SeaGen)	Europe	United Kingdom
Swansea Tidal Lagoon	Europe	United Kingdom
Tocado InToTidal - EMEC	Europe	United Kingdom
Torr Head Project	Europe	United Kingdom
Voith HyTide at EMEC	Europe	United Kingdom
Wave Dragon Pre-Commercial Demonstration Project	Europe	United Kingdom
Wave Dragon Project - Milla Fjord Site	Europe	United Kingdom
Wave Hub	Europe	United Kingdom
West Islay Tidal Project	Europe	United Kingdom
Westray South Tidal Project	Europe	United Kingdom
Yell Sound	Europe	United Kingdom
Minesto Holyhead Deep - Phase 1 (0.5MW)	Europe	United Kingdom
Kvalsund Tidal Sail	Europe	Norway
Kvalsund Tidal Turbine Prototype	Europe	Norway
Annapolis Tidal Station	North America	Canada
Fundy Ocean Research Center for Energy (FORCE) Test Site	North America	Canada
Race Rocks Tidal Energy Project	North America	Canada
Eco Wave Power Manzanillo 1 Project	North America	Mexico
Admiralty Inlet Pilot Tidal Project	North America	United States
Cobscook Bay Tidal Energy Project	North America	United States
Igiugig Village RISEC project	North America	United States
Kaneohe Bay OPT Wave Project	North America	United States

Lock and Dam No. 2 Hydroelectric Project	North America	United States
Mississippi River Projects	North America	United States
PacWave Test Site	North America	United States
PG&E WaveConnect	North America	United States
Reedsport OPT Wave Park Settlement Agreement	North America	United States
Roosevelt Island Tidal Energy (RITE) Demonstration-Pilot	North America	United States
Wave Energy Technology - New Zealand Multi-Mode Wave Energy Converter Advancement Project (Oregon)	North America	United States
Western Passage Tidal Energy Project	North America	United States
Whitestone Poncelet RISEC	North America	United States
Marine Energy Research and Innovation Centre (MERIC)	South America	Chile