

ENVIRONMENTAL EFFECTS METADATA SURVEY FORM

Name of person updating the form

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Date submitted

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Project name: SDE Jaffa Plant

Planned In Operation Completed

Project description:

Project Developer: S.D.E. Energy Ltd

Technology Developer: S.D.E. Energy Ltd

Technology type: Oscillating Wave Surge Converter

Resource (wave, tidal): Wave

Project scale (test site, prototype, array, commercial): Single Device.

Installed capacity (MW): 50 kW

Project Website: <http://www.sdeglobal.com/works/>

Launch Date: July 27, 2010

Additional Description: The Company's method consists of using sea wave motion to generate hydraulic pressure, which is then transformed into electricity. The system takes advantage of the wave's speed, height, depth, rise and fall, and the flow beneath the approaching wave, thus producing energy.

Location: Breakwaters of Jaffa, Tel Aviv, Israel.

Coordinates: 32.05024°, 34.74813°

Process status: S.D.E built and tested eight energy modules. A full-scale oceanfront model was operated in Israel and produced 40kW for almost one year. The model has been checked and approved by experienced engineers. A full-scale model was operated in Israel and produced 40ekW for almost one year.

Licensing information (brief description): S.D.E. technology for producing electricity holds US patent no. 5,461,862, International PCT, as well as other global and pending patents. The sea wave energy conversion method has been checked, approved and funded with the support from the Chief Scientist of Israel, Ministry of Industry and Trade, approval no. 23425, in the total sum of \$2 million dollars. The Israeli government has granted S.D.E a concession without tender to produce and sell 50MW of electricity for 20 years.

Key Environmental issues: *brief description on the most important environmental issues raised by the project (e.g. Sensitive species/habitats/areas that were of particular concern and/or received special protection) and how they were addressed.*

Environmental webpage: *link to project official environmental webpage (if available)*

Baseline studies and project effects studies: SDE Jaffa Plant

General description				
Receptor	Study description including question and/or objective (several can be listed per receptor)	Design and methods (brief description)	Results (brief description)	Status (planned, underway, completed, with dates)
Physical environment				
Benthos				
Fish and fisheries				
Large vertebrates				
Birds				
Marine uses / users				
Other* (can be named)				
Reports or Papers	(Key papers on the areas addressed should be listed here; when possible the files themselves can be made available in downloadable PDF format, alternatively links to the files or project website can be provided when available e.g. SeaGen.)			
Research Projects	(past or on-going environmental research projects at the site)			

Monitoring and adaptive management: SDE Jaffa Plant

General description				
Receptor	Monitoring program description including question and/or objective (several can be listed per receptor)	Design and methods (brief description)	Results (brief description)	Status (planned, underway, completed, with dates)
Physical environment				
Benthos				
Fish and fisheries				
Large vertebrates				
Birds				
Marine uses/ users				
Other* (can be named)				
Reports or Papers	(Key papers on the areas addressed should be listed here; when possible the files themselves can be made available in downloadable PDF format, alternatively links to the files or project website can be provided when available e.g. SeaGen.)			
Research Projects	(past or on-going environmental research projects at the site)			