

Energy from sea waves

S.D.E Energy and Desalination Ltd. , Israel, has designed a proprietary technology for producing electricity by "harvesting" sea wave motion in the harshest weather conditions. In this method, sea wave motion is utilized to generate hydraulic pressure , which is then transformed into electricity. The system takes advantage of the speed, height, depth, rise and fall, and then flow beneath the approaching wave, thus producing energy more efficiently and cheaply than both sea-wave and conventional technologies, which require vast areas of land space for their ash removal facilities, chimneys, coal storage space, furnaces and coolers .

The new system can produce about 40 kWh/m of beachfront occupied. Other benefits of this system include protecting the coastline from the destructive forces of the sea and operating as wave breakers .The expected annual revenue from a 10 MW power plant operating at 90 per cent with output 75 per cent of the year is approximately US\$3.1 million. The system is designed to repay the initial investment within three years .This technology can also be used together with a desalination plant, reducing the cost of desalinated water dramatically. *Contact: Mr. Shmuel Ovadia, Managing Director, S.D.E. Energy and Desalination Ltd., Israel. Tel: +972 (3) 7397 107; Fax: +972 (3) 6319 239.*

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