

Wave20™ 1.5m3/d HDPE SurgeWEC™

DESCRIPTION:

This application harnesses wave power using RME's HDPE SurgeWEC™, a proprietary OWSC.

RME's Wave20™ 1.5 m3/d with HDPE SurgeWEC™ comprises a bottom-mounted hinged flap driving a pair of novel custom-developed fixed displacement vane pumps (high-pressure pumps).

RME's novel vane pumps will deliver a pressurized flow of filtered seawater to the RO desalination plant using a hydraulic motor-generator to supply electrical power for auxiliary devices (low pressure boost pump and plant control systems).

TEAM:

Resolute Marine Energy

University of Minnesota

4C Engineering

Design Automation Associates

