

Towards OSLO



Electronics, sonar,
optics, and connectors
in marine environment



Energy conversion from
wave and currents of
Skagerrak



Testing of product and
material impact in
marine environment



Testing and Research
on biological and
organic processes

1. Kristineberg
2. Sotenäs
3. Islandsberg
4. SSPA
5. Svanesund*

* Projected Facilities

2

UDDEVALLA

LYSEKIL

1

3

5

GOTHENBURG

4

TEST SITE SKAGERRAK

Sustainable Development - Test Tank & Ocean Testing

Welcome to Test Site Skagerrak, a global centre of excellence in marine testing and research. Let us introduce you to Europe's "best coast" for a faster and affordable early stage development.

An OffshoreVäst initiative - offshorevast.se

Unique Offer

The easily accessible waters around Lysekil and Orust offer testing opportunities in **mild climates** in regards to waves and currents which, compared to other international test sites is unique. The conditions around Skagerrak are attractive for testing of components and systems, energy technology for areas with lower energy flows, and scale prototypes for areas with high energy flows.

MARINET II

SSPA and Islandsberg is part of the H2020 funded Marinet II network. This offers ocean energy developers access to testing from all over Europe.

The Facilities

Kristineberg Test Site & Laboratory

Underwater laboratory with equipment like main cables, video cameras and a 24 channel fiber-optic cable at 30 (+) meters depth. The facility also holds four ROVs, three research vessels, research diver with state of the art equipment, scientific buoy, labs, conference halls accommodation and more.

Svanesund Test Site

Low current test site for testing of small scale tidal stream devices and components.

SSPA Test Tank

SSPA offers facilities for hydrodynamic testing and extensive experience in hydrodynamic design. SSPA can be of assistance for initial testing and evaluation as well as design optimization for devices in the upper development levels. Offer includes:

- Towing tank
- Maritime Dynamics Laboratory
- Cavitation tank

Islandsberg Test Site

A site continuously developed since 2004 for experiments on renewable electricity from the waves and environmental studies. Islandsberg provides a depth of 25–30 meters, a flat sandy bottom, marine switchgear (AC/DC/AC) connected to the power grid, power cables, netcables and singal cables, camera surveillance, wave measurement and also a measuring station on land. Test areas: strength, survivability, renewable energy production and environmental impact.

Sotenäs Test & Demo Site

The site is located 3 nautical miles from mainland and is grid connected. The site is owned by Seabased where they conduct their R&D. With the a depth of 50 meter and an area of 0.8 Sqkm the site has the capacity to support several test objects in different stages in their development.



Kosmos 2013: Simulation of the impacts of climate change in Gullmarsfjorden

The Swedish Maritime Strategy

"A competitive, innovative and sustainable maritime sector can contribute to increased employment, reduced environmental impact and an attractive living environment."

Mikael Damberg
Minister for Enterprise and Innovation

Blue Growth

In the OECD report published in 2016, The Ocean Economy in 2030, the current maritime economy is predicted to increase by 100 %

We will see innovations in advanced materials, underwater technology, sensors, optics autonomous systems, bio and nano technology. Cultivation for example of algae and sea squirt for food and energy will be more off shore-based in future, which places new demands on materials, constructions, anchoring, service and more.

Corporate development and new jobs will be available to countries that already is investing in the growth of companies that supply products and services to a growing global market.

Sweden has the right prerequisites to become an exporter of complete power plants, subsystems, components, services and knowledge. In order to achieve success, large investments are required in reserach, development, test and demonstration.

SMART Ocean

The Test Site Skagerrak initiative is part of the innovation platform SMART Ocean. In order to carry out the long-term visions and strategies required, there is a need for increased coordination and supporting innovation system, that links research, innovation, entrepreneurship and community planning for sustainable growth. www.smartocean.se

Contact Anne Gunnäs, Lysekil Municipality
anne.gunnas@lysekil.se, +46(0)523 613 154