The Worlds first full scale project on wind–hydrogen on Utsira

Jarle Nilsen
- Mayor of Utsira
- Representative of Rogaland Council
Utsira

- Radio 4 Shipping Forecast

"North Utsira, South Utsira, south to southeast five, thunder and rain, moderate with fog patches"
Utsira North...
Utsira South...
Utsira history:

- First harbour construction in Norway (1869)
- Utsira Light House (1844)
- Metrological measurements (1873)
- The World's first female Mayor, Åsa Helgesen (1926-28)
- Historical Fishing & Agriculture centre
- Pilot activity through generations
- The World's first full scale project on wind–hydrogen
Utsira facts:

- 214 inhabitants (01.01.2007)
- New ferry 2005
- New school in 2009
- New kinder garden in 2009
- Swimming pool/sports hall/football arena, hotel, restaurant, cafe, cottages for tourists, nature-birds, and more.....
Hydro + Utsira = perfection

- Hydro and Utsira working together
- Environment profile – positive for Utsira
- Tourist attraction
Eivind Reiten President of Hydro
Torhild Widvey Minister of oil and energy
Geir Helge Rasmussen former mayor of Utsira
Challenge 1

Archaeological findings
Solution

A fence around the archaeological findings, and then we had two tourist attractions in the area.
Challenge 2

One of the land owners didn’t want to sell
Solution 2

Negotiations ended up with an agreement that we had to put up a sign.
In memory of the women and men that had their work and struggle in this area.
Apart from that, just positive feedback from the inhabitants of Utsira
The installations work started in 2003.
What about the birds?

Utsira is the most famous place in Norway for bird watching
Since the start there hasn't been any registered dead birds in the vicinity
Given possibility for people with a disability to get out and about with nature
Side effects

- Rogaland County first county in Norway to have a plan for wind installation
- A lot of publicity for Utsira and Hydro
- Platts Global Energy Award
- After the Lighthouse, they are the most visited tourist attractions on the island
The Future
Hydro & Utsira after 2008
Utsira Pioneering wind turbines for deep water locations

Utsira & Lyse
Utsira offshore wind farm:

Pilot phase:

- Build a 5 MW prototype floating wind turbine in 2009
- The prototype will be installed off the coast of Rogaland
- Planned start up 2010
Phase 1:

- A demonstration farm to be set up with five wind turbines
- Located approx. 5 km east of Utsira
- Total installed output 25 MW
- Possible start up 2012
Phase 2:

- An offshore wind farm to be set up with 56 wind turbines
- Located approx. 17 km west of Utsira
- Total installed output 280 MW
- Total power generation approx. 1.2 TWh
- Possible start-up 2016
Why Utsira?
Criteria for location of the wind farm:

- Excellent wind conditions (over 10 m/s at turbine height)
- Suitable water depth (150-270 metres)
- Near a strong onshore power grid
- Acceptable level of conflict with possible affected parties
- Near harbours and shipyards
- Positive attitude from the local communities at Utsira and Karmøy.
For more information:

www.utsira.kommune.no
www.statoilhydro.com
www.lyse.no