Derek Mitchell

The Hydrogen Office

September 2010

www.thehydrogenoffice.com

The Hydrogen Office

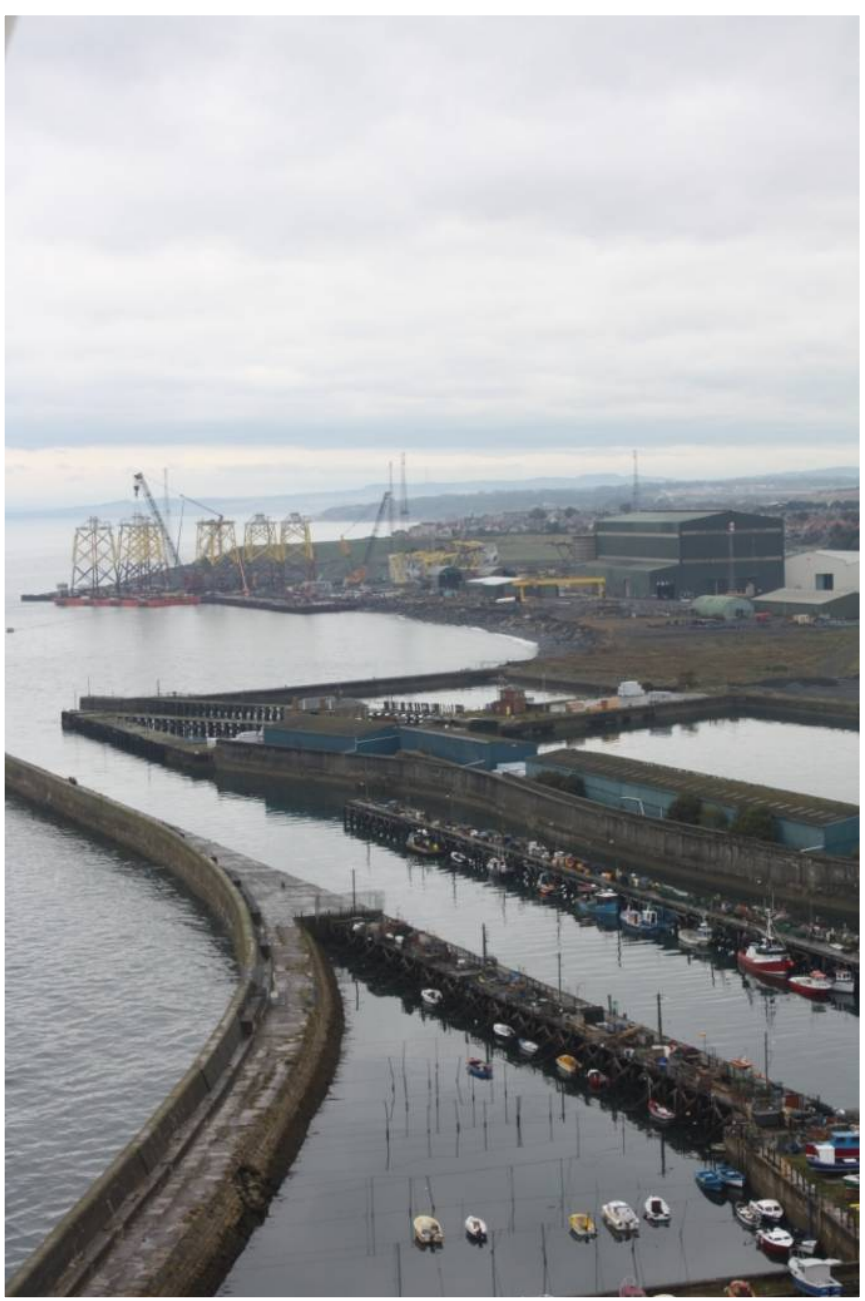
Scottish Enterprise

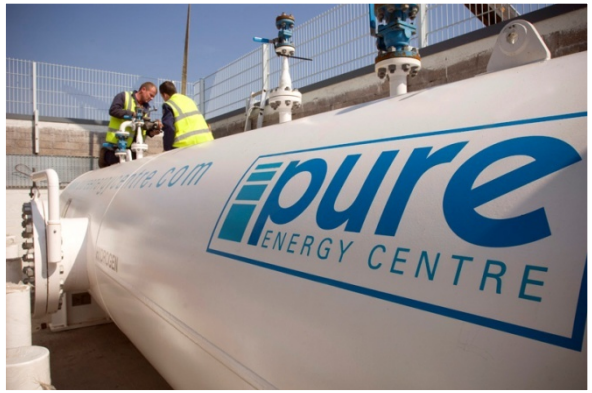
EUROPE & SCOTLAND
European Regional Development Fund
Investing in your Future

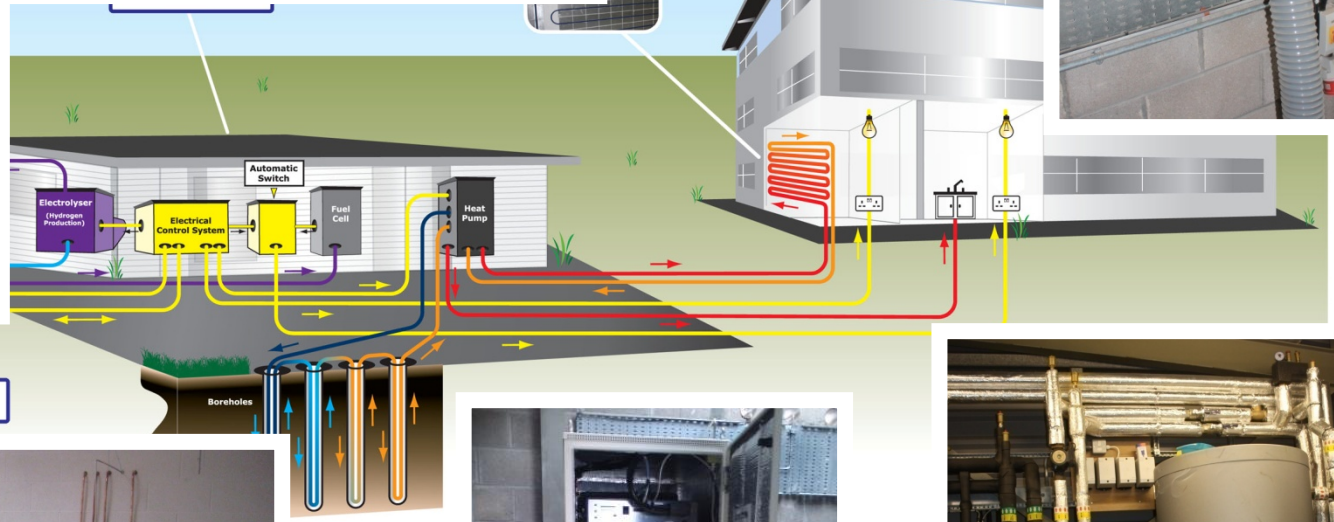
natural scotland
SCOTTISH GOVERNMENT

Alsherra Investments Ltd

Dundee
Perth
A914
A91
St. Andrews
Gleneagles
J7
A91
Cupar
A92
Stirling
M90
A92
Glasgow
Edinburgh




pure
ENERGY CENTRE


Automatic Switch
Electrolyser (Hydrogen Production)
Electrical Control System
Fuel Cell
Heat Pump
Mains Water
National Grid
Boreholes

pure
pure

Project priorities

Working to support the accelerated development of the renewable, hydrogen and fuel cell industry, by:

- Demonstration
  - Improving access to and understanding of the technology
  - Promoting the benefits
  - Challenging the barriers

(Distinguishing between the present opportunities for fuel cells and the long-term benefits of energy storage)

- Promoting the opportunity for Scotland
- Supporting education and skills development
- Facilitating research and development

The Hydrogen Office Demonstration Centre

THE **HYDROGEN** OFFICE

Promoting the Scottish Opportunity

Scotland has an estimated 59GW of possible renewable capacity, capable of generating 213GWH of energy annually (Scotland's Renewable Resource 2001, Garrad Hassan) against an annual electricity demand of 35GWh (Scottish Government).

Last week, the Scottish Government revealed plans to increase renewable electricity generation to 80% by 2020 (a 30% increase)

Energy storage technologies enable Scotland to use its renewable energy assets more:

- **Efficiently;**
- **Ambitiously; and**
- **Widely**

The Hydrogen Office Education Programme

Inspiring Learning

ADAM SMITH COLLEGE
INSPIRING LEARNING

The Naturesave Trust
Registered Charity No 1048505

EUROPE & SCOTLAND
European Regional Development Fund
Investing in your Future

Challenging young minds

The 2010 Hydrogen fuel cell challenge

babcock

Research and development

ERDF funding to support

- Knowledge and technology transfer (in partnership with SHFCA)
- 3 research positions with St Andrews University, Strathclyde University and Lews Castle College

Hydrogen Fuel Cell verification Centre

- A user verification facility for pre commercial hydrogen fuel cells

Thank you