

Scotland

The Hydro Nation

Bob Irvine



Scotland the Wet



- Scotland has 1/3 of GB land area and over ½ of its renewable water resource
- Over 1.9 per cent of land surface in Scotland is covered by freshwater
- 70 per cent of the area and 90 per cent of the volume of all the UK's inland surface water is in Scotland
- Scotland has 7x the average UK resource per head of population

Loch Ness



The water contained in Loch Ness is nearly twice the amount in all the standing waters of England and Wales

And.....



Rain stopped play?



The Hydro Nation

.....a nation that recognises the importance and value of water within our national and international identity, that manages the water environment to the best advantage, developing and promoting more efficient resource use and employing its knowledge and expertise at home and internationally in ways which contribute to a flourishing low-carbon economy.



**Scottish
Water**
Trusted to serve Scotland

- Created in 2002
- Publicly owned
- 5 million customers
- 1.3 billion litres of water every day
- 280 water treatment works
- More than 1800 waste water treatment works
- Over 100,000 km of water and sewer pipes
- £1 billion turnover
- £500m per annum capital programme
- 4th largest water services provider in the UK
- Over 3,500 staff

Scottish Water - 2010-2015

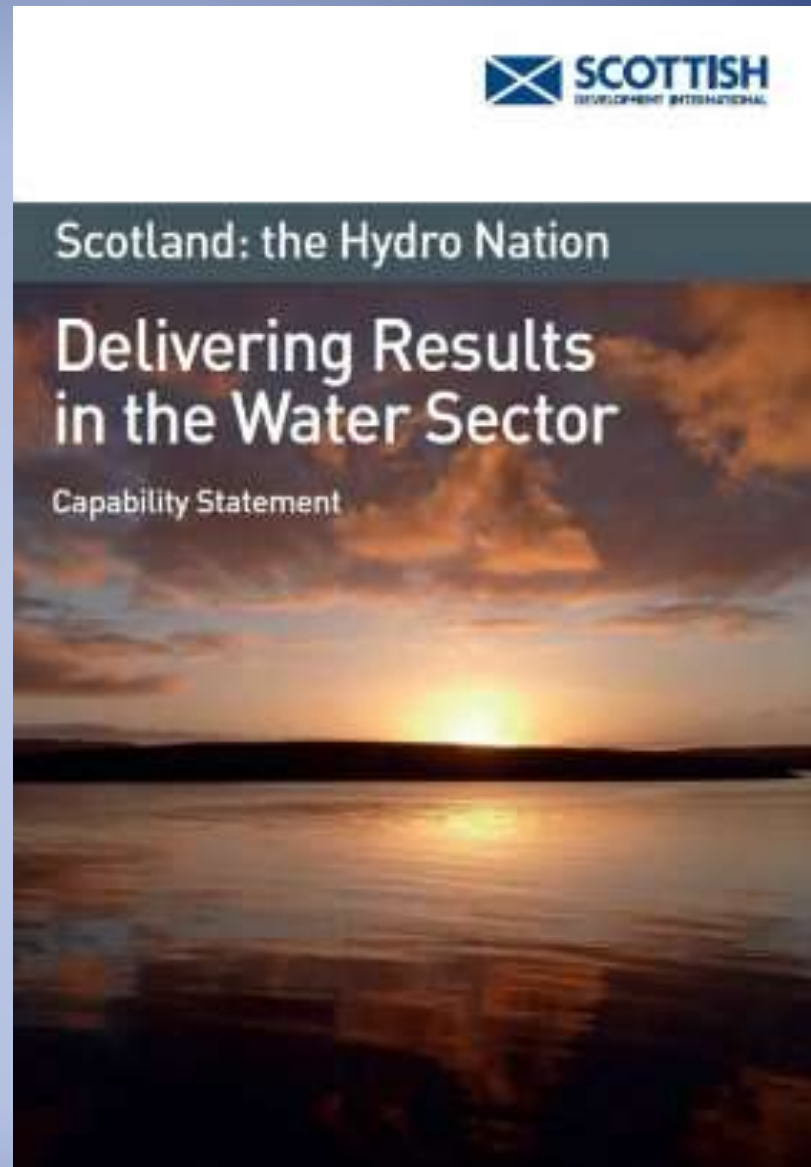
- 21 % improvement in levels of service
- Leakage reduced by 25%
- 800,000 customers benefitted from Water Quality improvements
- 81 Waste Water Treatment Works improved across Scotland
- Pollution incidents down by 60% over the last five years
- Long term improvement plan for Glasgow's sewer network (£250m)
- Charges reduced in real terms

Scottish Water – Operational Innovations



Scotland has a number of key strengths in the water sector. Showing examples of how Scottish companies, universities and research bodies can support developing economies, the capability statement shows how we can tackle current and future water scarcity.

<http://www.sdi.co.uk/knowledge-hub/articles/insight/water-capability-statement>



The Hydro Nation

Water Resources Act 2013

Scottish Ministers must take such reasonable steps as they consider appropriate for the purpose of ensuring the **development of the value of Scotland's water resources**.

Hydro Nation – Strategic Vision

- Scotland's expertise in **governance of water resources** will be recognised internationally and we will have partnered other nations in developing their water governance framework.
- **Scotland's water industry** will be known for its transformation in performance and for low carbon sustainable approaches.
- Scotland's **research community** will participate in international research programmes contributing solutions to key issues.
- The **value of our water resource to the economy** will be increasingly realised through the development and marketing of technologies and services and the attraction of water intensive activities from areas of water stress.

Governance

The Scottish
Parliament

Scottish Ministers

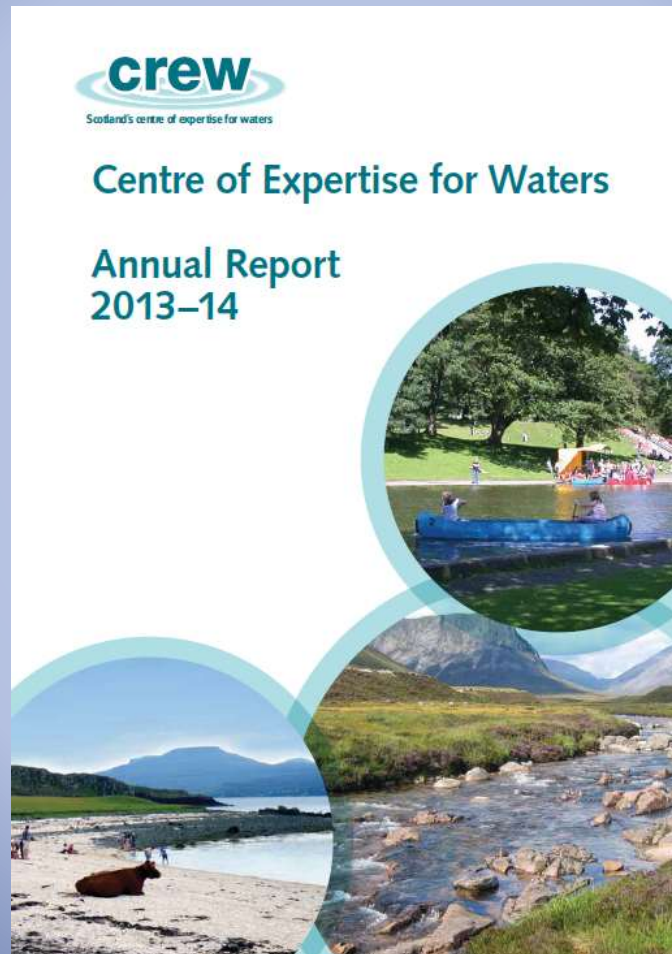


Governance



WAREG
the Network of
European water
service regulators

Research Excellence



Hydro Nation Scholars



**The Scottish
Government**

Hydro Nation Scholars
Programme

- Promoting excellence in water-related research
- Scholars bring new dimensions to our academic capability and support critical policy/research interface
- 14 scholars recruited to the programme from October 2015 working on a wide range of topics serving the critical policy/research interface

<http://www.hydronationscholars.scot/>



- Support businesses through the development of products / services from 'early stage' to 'near to market'
- Market knowledge and sector expertise to provide a practical understanding of the end-user needs and routes to market
- One-to-one support and assistance in developing collaborative working relationships with relevant bodies including universities, test and demonstration centres and other partners.
- Support in gaining access to funding opportunities and funding support networks

<https://www.hnwis.scot/>

Testing... testing



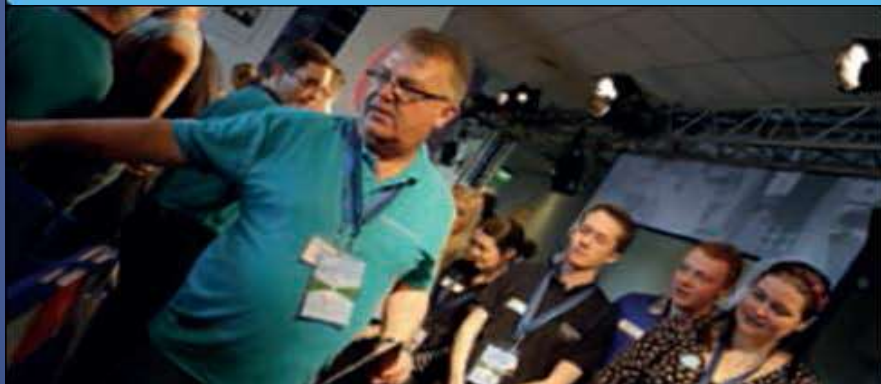
Scottish Water International

Transforming utilities worldwide



Operations and maintenance

Advice and support, including training and strategic advice



Restructuring

Regulatory and financial restructuring for public utilities



Asset management

Capital investment governance



Scottish Water International

Transforming utilities worldwide



Climate Justice



- £6m Fund
 - Sub-Saharan Africa
 - Water adaptation, quality and resilience
 - Natural Resource management
-
- *Salima District Malawi*

Innovative SMEs



Scotland the hydro nation - Interactive 3D map



- Head Office
- Branch
- SME
- Non-SME







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Scotland The Hydro Nation

2nd Annual Report

<http://www.gov.scot/Resource/0048/00487846.pdf>



So...who needs Raul Dravid?



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