

Plugging Iceland's Renewable Energy into UK's Grid is a Win-Win Option

Magnus Bjarnason, EVP
Marketing and Business Development
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Sustainability and environmental awareness comprise a new megatrend that inevitably will impact the energy market



1970-2000

Globalisation

2000-2010

Telecommunication & IT

Post 2010

Green revolution & renewable energy

Industry gains a strong foothold in Iceland

Energy intensive industry, aluminium and ferrosilicon

- > Century Aluminum
- > Elkem
- > Rio Tinto Alcan

Growing industry in Iceland

Telecom industry and further development of other industry

- → Alcoa
- > Becromal
- > Rio Tinto Alcan enlargement
- > Data centers appear

New emphasis in marketing in Iceland

Developing current customers and increasing diversity

- > Verne Holdings
- > High-tech industries
- > New energy sources developed
- > Sale of green certificates

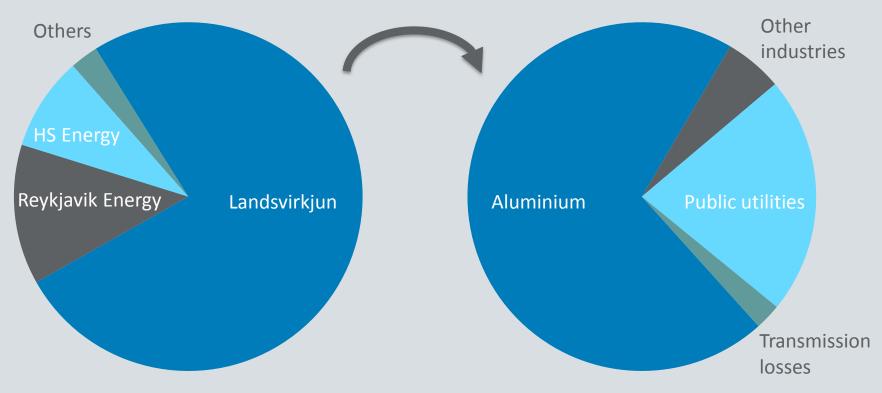
Landsvirkjun will continue to endeavour to meet the needs of its various customers

Landsvirkjun generates 13 TWh of renewable energy per year and is growing due to increased global industrial demand



Landsvirkjun generates ¾ of the supply

Focus on customer diversification and growth





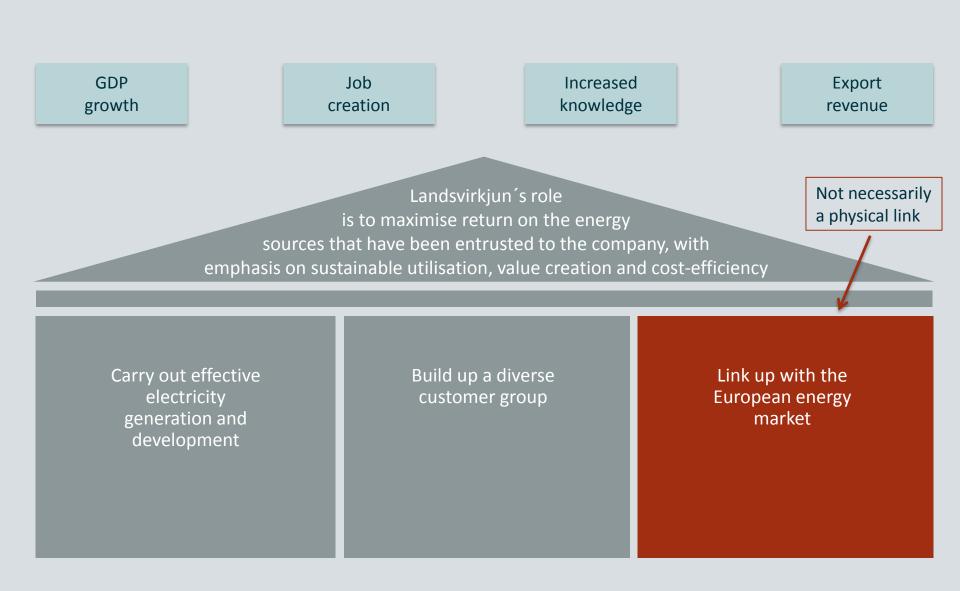






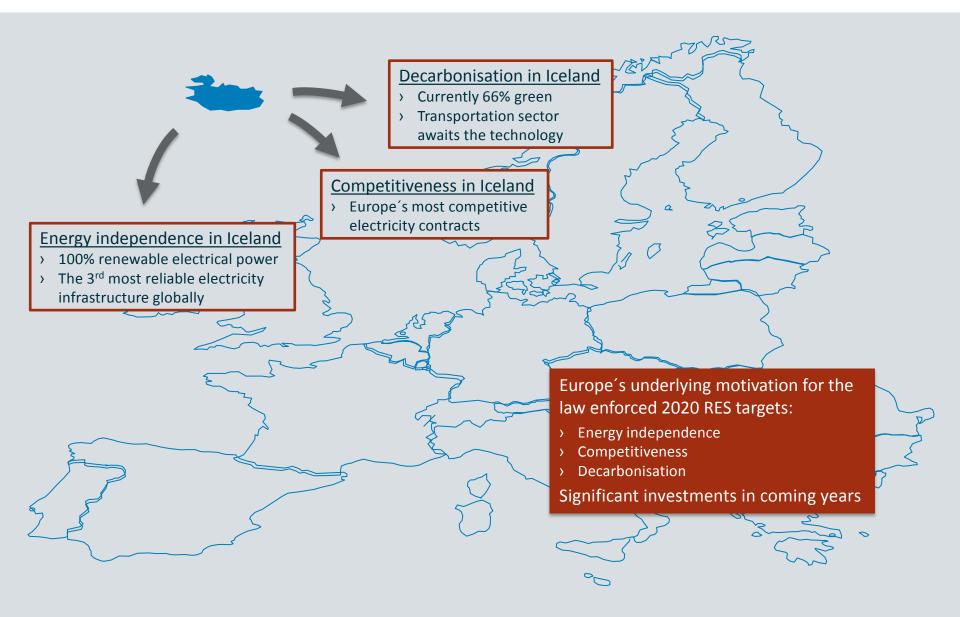
Landsvirkjun's policy is based on the idea that the Icelandic energy market should reflect international development





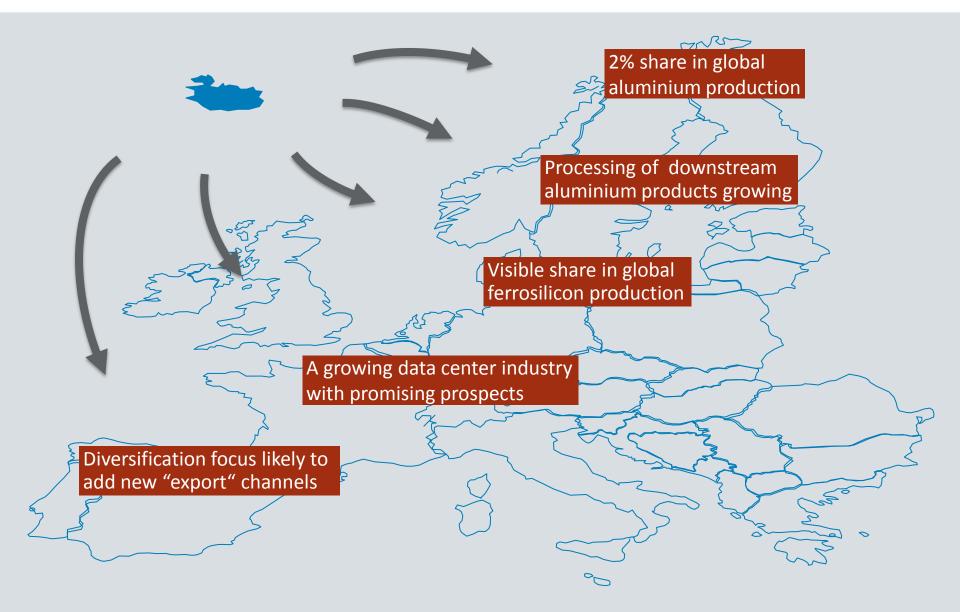
Iceland has already secured the energy independence and competitiveness that Europe today strives to achieve





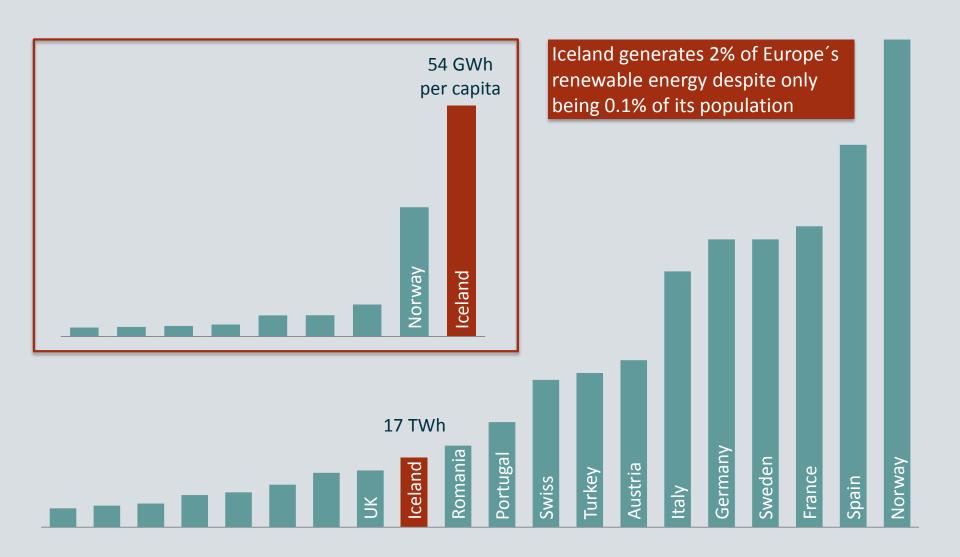
Iceland "exports" its renewable energy through various commodities with aluminium being the most prominent one





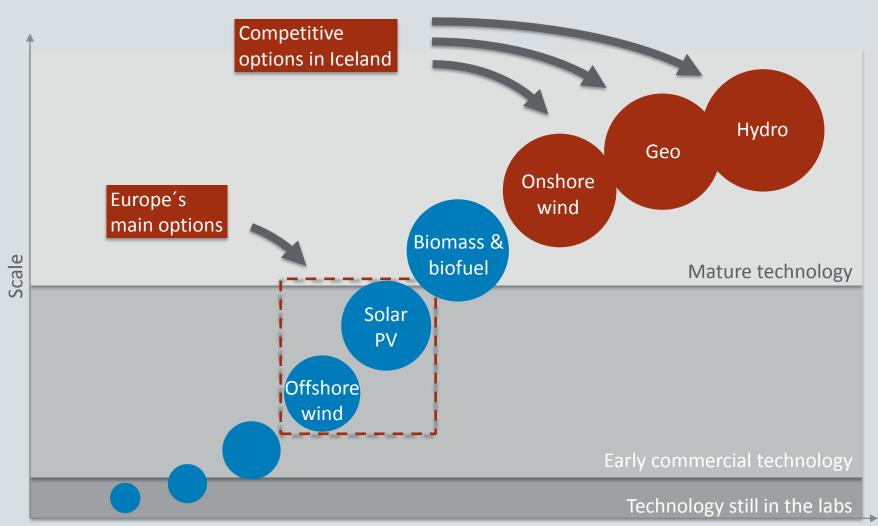
Iceland generates renewable energy significantly beyond its basic needs making it an "exporter" of renewable energy





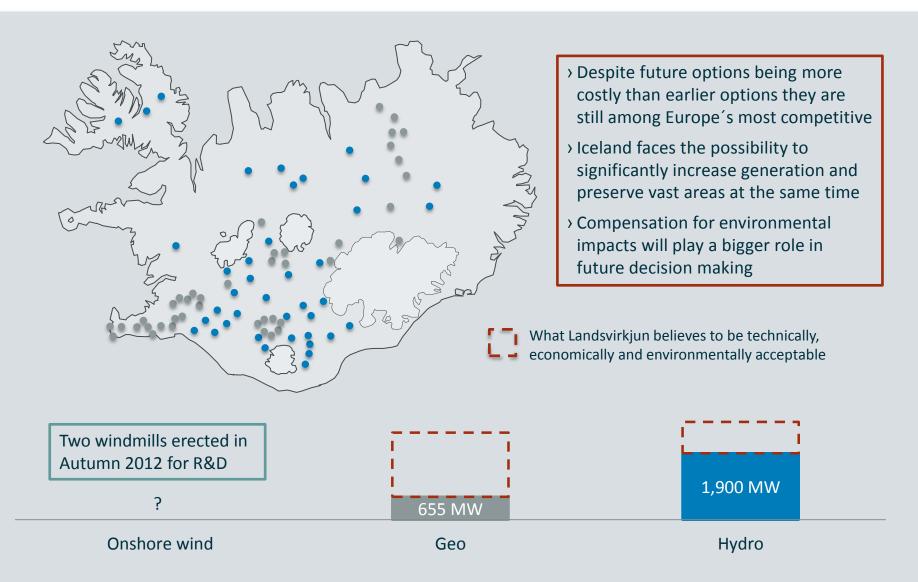
Iceland has interesting opportunities to increase Europe's renewable generation through well developed technologies





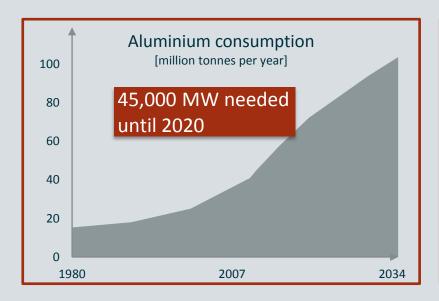
The reason for further increasing generation in Iceland is driven by enhancing local prosperity and not the need



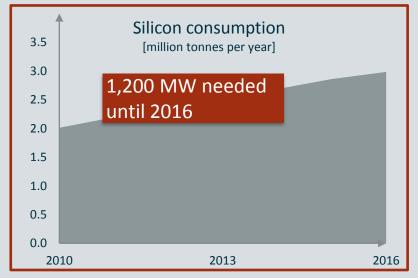


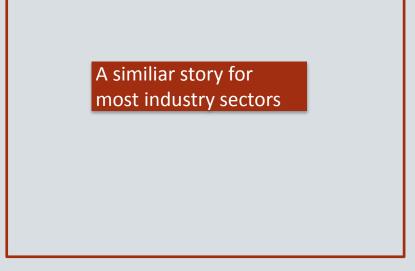
Iceland faces increased demand from industrial consumers awaiting the inevitable turnaround in the global economy





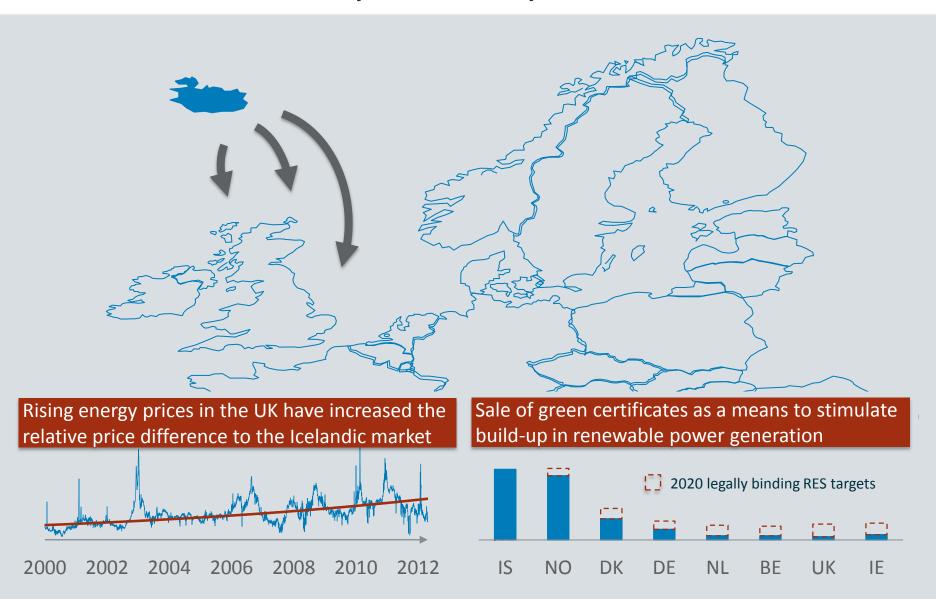






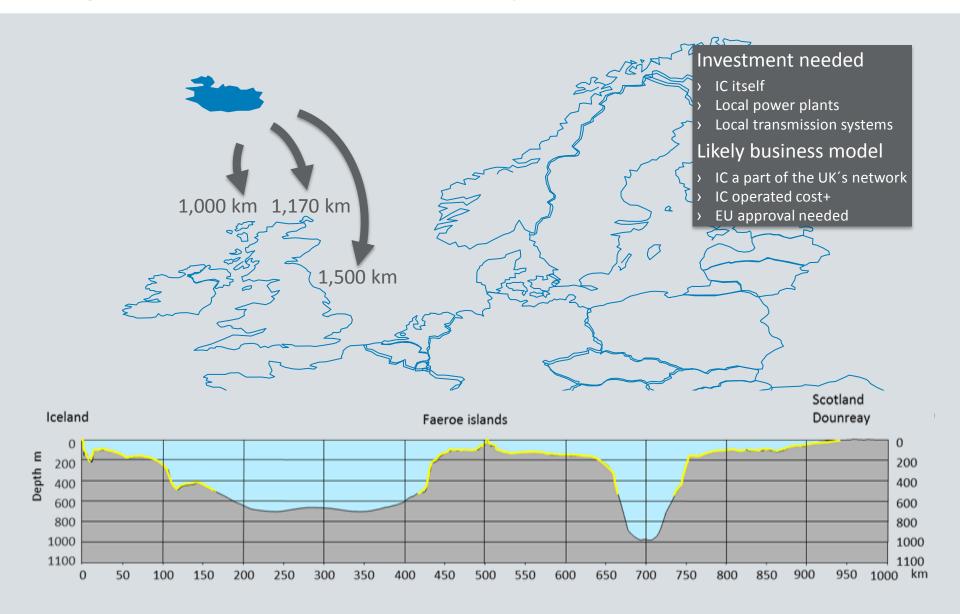
Recent pre-feasibility studies suggest that an IC from Iceland to the UK is financially and technically feasible





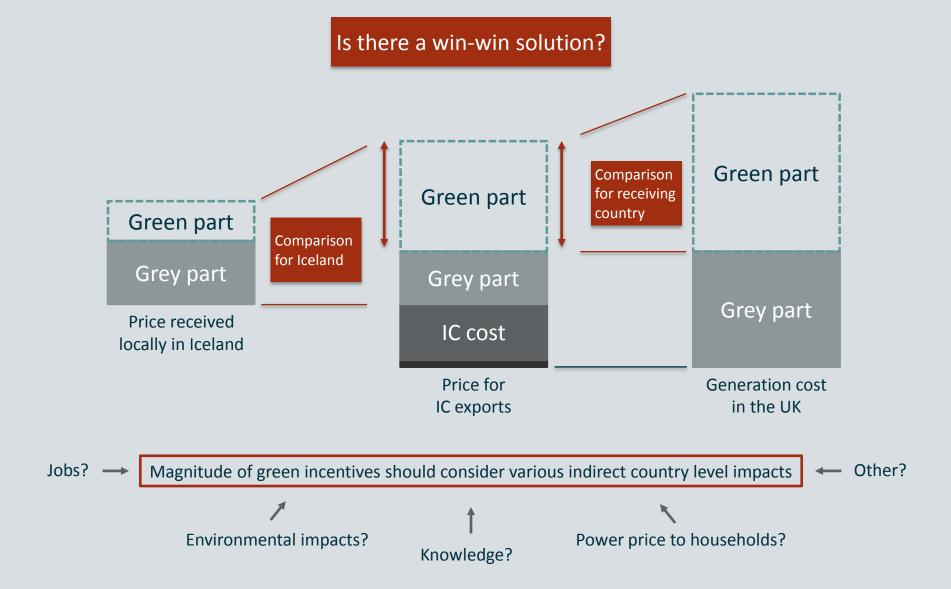
An IC connecting Iceland to the UK would be the longest of its kind and would traverse deep waters





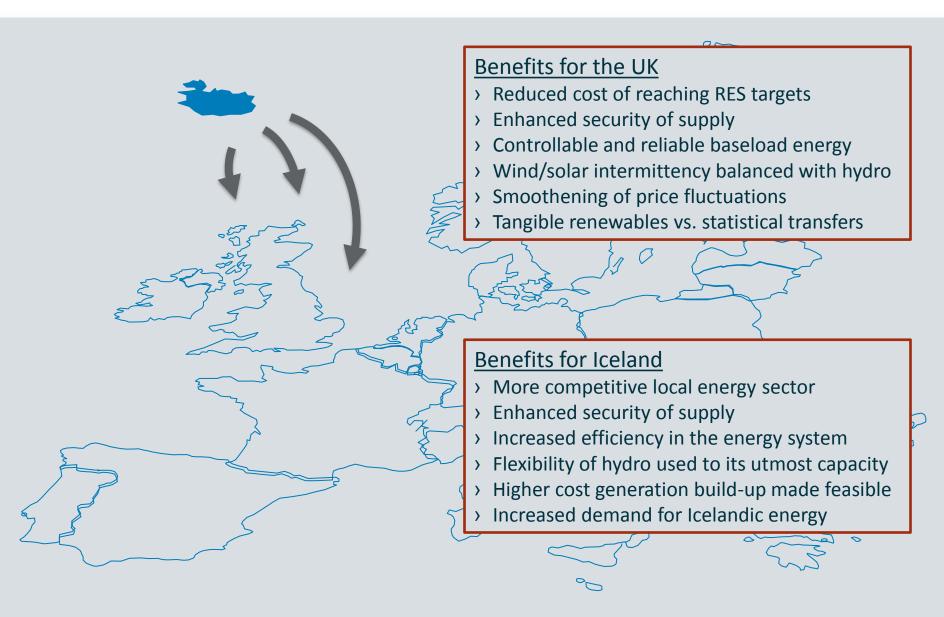
The feasibility for Iceland of exporting energy presumably depends heavily on the magnitude of green incentives





Linking the UK energy infrastructure to Iceland has lots of benefits for both the UK and Iceland





Landsvirkjun wishes to involve more parties in evaluating a possible IC and proposes the following next steps to be taken



Ongoing feasibility study 1-2 years

Laying of a subsea IC takes 4-5 years

- (1) Analysing technical aspects...
 - ...the seabed
 - ...possible landing sites
 - ... options for further energy generation and energy transmission
- (2) Analysing sociological aspects in Iceland...
 - ...possible impacts on energy generators, energy intensive industries and Icelandic households
 - ...impacts that other ICs have had, f.ex. in Norway, Canada, Tasmania and Sardinia
- (3) Analysing commercial and legal aspects in the UK and Iceland...
 - ...mutually beneficial commercial solutions for both the UK and Iceland
 - ...necessary adjustments to current law in order for a proper business model to be authorised

