

SUMMARY OF NON-PRIVATE SECTOR LOW CARBON INVESTMENTS IN SCOTLAND

Scheme	To	Project	Amount	Location
WATERS fund – Scottish Marine Projects (£13m total) ¹	RWE npower	4MW Siadar project - wave station	£6m	W. Isles
	OpenHydro	connecting marine energy devices	£1.92m	Dublin
	AWS Ocean Energy	wave-energy converter tests	£1.39m	Loch Ness and Cromarty Firth
	Ocean Flow Energy	Evopod - tidal turbine	£0.6m	Sanda Sound, S. Kintyre
	Aquamarine Power	Oyster 2 - wave power	£3.15m	Edinburgh
WATES scheme ²	European Marine Energy Centre (EMEC) - wave and tidal	8 projects and associated infrastructure developments (e.g. Marwick Head Wave Plant, £3.2m) ³	£13m	Orkney
Scottish Gov. ⁴	Grants to community organisations through Community Energy Scotland	CARES	Technical support grants up to £10k, capital grants up to £150k.	
Scottish Gov. - Zero Waste Scotland's Organics Capital Grants programme ⁵	Scottish and Southern Energy plc (SSE)	Biogas plant	£2.2m	Barkip, North Ayrshire

¹ <http://bnef.com/GrantsAwarded/1639>

² <http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Energy-sources/19185/20805/WTSupportScheme/WTSupportSchemeIntro>

³ <http://bnef.com/GrantsAwarded/1547>

⁴ <http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Energy-sources/19185/Communities/CRES>

⁵ <http://bnef.com/GrantsAwarded/1596>

Scottish Gov. - National Food Processing, Marketing and Co-operation Scheme ^{6,7}	Energen Biogas	Biogas Plant	£2m	Cumbernauld
SG, Forestry Commission Scotland and the European Regional Development Fund ⁸	Scottish Biomass Heat Scheme		£3.3m scheme, grants of up to £100,000 prioritised for small-medium enterprises	
SFC ⁹	RDD&D	multi-institutional collaborations called research pools	Some of £132m invested feeds into low-C agenda.	
	strategic research initiatives	Aberdeen Centre for Environmental Sustainability	£1.2m	Aberdeen
		Scottish Centre for Carbon Storage Research	£1.4m	Edinburgh
		Integrated Energy Initiative (Co-Funded with EPSRC)	£750k	Glasgow
		Carbon Capture from Power Plant and Atmosphere (Co-Funded with EPSRC)	£418k	Edinburgh

⁶<http://www.scotland.gov.uk/News/Releases/2008/08/05105633>

⁷<http://bnef.com/GrantsAwarded/1331>

⁸<http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Energy-sources/19185/20805/BioSupport/BioSupportHome>

⁹RDDD Mapping Document Draft

SE's The Proof of Concept Programme (PoC), (£79m total) ¹⁰ (£1.3m low-C) ¹¹	University of Aberdeen	Carbon Tolerant Low Temperature Fuel Cell - Energy Generation and Transport Applications	£292,285	Aberdeen
	Glasgow Caledonian	Particulate Solids Mass Flow Rate Measurement by Thermal Methods	£199,65	Glasgow
	Edinburgh Napier	Low Cost Manufacture of Anodes for Solid Oxide Fuel Cells	£198,066	Edinburgh
		Renewable Energy from Novel Environmental Waste	£267,454	Edinburgh
	University of Strathclyde	Improved Electrical Generation Systems for Renewable Energy & Microgeneration	£190,777	Glasgow
		User-Configurable and Proactive Condition Monitoring	£162,000	Glasgow
SE: SMART: SCOTLAND ¹²	Several grants	early stage R&D	£800k to low-C projects	
Scottish Gov. ¹³	Grants administered by the Renewables & Consents Policy Unit	Renewable Hydrogen & Fuel Cell Support Scheme	£1.5m total, £250,000 per project, (£50,000 for seed fund projects)	
UK Gov - Technology	*AWS Ocean Energy ¹⁵	wave energy device	£350,000	Inverness

¹⁰<http://www.scottish-enterprise.com/proofofconcept>

¹¹RDDD Mapping Document Draft

¹²RDDD Mapping Document Draft

¹³<http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Energy-sources/19185/20805/HydrogenSupport/HydrogenAppForm>

¹⁴<http://bnef.com/GrantsAwarded/1653>

¹⁵<http://www.awsocan.com/media/File/TSB%20funding%20release%20FINAL%2023%20July.pdf>

¹⁵<http://www.awsocan.com/media/File/TSB%20funding%20release%20FINAL%2023%20July.pdf>

Strategy Board ¹⁴ (£7m total, to nine marine energy companies. Scottish* in detail)	*Aquamarine Power ¹⁶	Oyster - wave energy	£450,000	Edinburgh
Scottish and Southern Energy, Scottish Enterprise, Norwegian investors, Sigma Capital Group ¹⁷	Aquamarine Power	Oyster - wave energy	£6m	Edinburgh
UK Government Marine Development Grants (total £22.5m) ¹⁸	Aquamarine Power	Oyster – wave energy	£5.1m	Edinburgh
	Pelamis Wave Power ¹⁹	Wave power	£4.8m	Edinburgh
Saltire Prize	Pelamis Wave Power ²⁰	Wave energy	£10m	Edinburgh
DECC Turbine Project Grant (£10m total) ²¹	Artemis Intelligent Power ²²	Transferring existing technology (automotive) to wind power	£1m	Loanhead Midlothian
UK Carbon Trust Marine Technology Grant (£400k total)	Pelamis Wave Power ²³	Wave power	£250k	Edinburgh

¹⁶<http://www.aquamarinepower.com/news-and-events/news/latest-news/view/151/research-to-create-new-wave-of-clean-energy-technology/>

¹⁷<http://www.aquamarinepower.com/news-and-events/news/latest-news/view/146/further-6m-funding-for-aquamarine-power/>

¹⁸<http://bnef.com/GrantsAwarded/1463>

¹⁹<http://www.pelamiswave.com/news?archive=1&mm=2&yy=2010>

²⁰<http://www.pelamiswave.com/news?archive=1&mm=8&yy=2010>

²¹<http://bnef.com/GrantsAwarded/1273>

²²<http://www.artemisip.com/index.htm>

UK government's CCS Project Grant ²⁴	Scottish Power	carbon capture and storage projects	undisclosed	
European Commission Wind & CCS Projects Grant (total EUR 1.6bn) ²⁵	Aberdeen offshore wind farm testing centre	increasing capacity	EUR 40m	Aberdeen
	Npower	post-combustion	EUR 180m	Kingsnorth
	Scottish Power	post-combustion		Longannet
	Npower	post-combustion		Tilbury
	Powerfuel	IGCC project - CCS focused start-up		Hatfield
Big Lottery Fund Biomass Plant Grant ²⁶	E.ON UK	Biomass Plant	£18m	Steven's Croft, Lockerbie

1. Literature

Building a low-carbon economy – the UK's innovation challenge, Committee on Climate Change (2010) <http://www.theccc.org.uk/reports/low-carbon-innovation>

Environmental Progress Report, Goldman Sachs (2009) <http://www2.goldmansachs.com/services/advising/environmental-markets/env-markets-landing-page/env-progress-landing-page.html>

Scotland's path to a low-carbon economy, Committee on Climate Change (2010) <http://www.theccc.org.uk/reports/scottish-report>

Unlocking investment to deliver Britain's low carbon future, Green Investment Bank Commission (2010) <http://www.climatechangeandcapital.com/media/108890/unlocking%20investment%20to%20deliver%20britain%27s%20low%20carbon%20future%20-%20green%20investment%20bank%20commission%20report%20-%20final%20-%20june%202010.pdf>

²³<http://bnef.com/GrantsAwarded/1268>

²⁴ <http://bnef.com/GrantsAwarded/1522>

²⁵<http://bnef.com/GrantsAwarded/1174>

²⁶<http://bnef.com/GrantsAwarded/295>