



Annual review 2017/18

regen 
transforming energy

Regen team

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Board of Directors

Sonya Bedford	partner, Stephens Scown Solicitors
Johnny Gowdy	Regen
Michael Huntingford	chairman, Regen. Director, Zero Carbon Marine Ltd
Merlin Hyman	Regen
Alan John	partner, Osborne Clarke
Jonathan Johns	director and principal Climatechangematters Ltd
Cathy McClay	head of future markets, National Grid Electricity System Operator
Nigel Topping	chief executive, We Mean Business
James Vaccaro	director of corporate strategy, Triodos Bank

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What a year



The sobering report from the International Panel on Climate Change this year was the reminder of the urgency of Regen's mission of transforming our energy system for a low carbon future.

We know what can be achieved when we get it right. Regen and its members have been at the heart of the remarkable growth of renewable energy which now provides 30% of our electricity, helping the UK reduce carbon emissions by 42% since 1990.

At this pivotal moment our focus is to work with our members on accelerating the transition of our whole energy system.

We have stepped up our work championing the policies, regulations and market structures that will enable the innovation and investment in disruptive solutions that we need – including running the national Electricity Storage Network.

We are leading pioneering projects that harness the seismic shifts in technology to enable more decentralised renewable generation; smart, local energy systems; and a whole system approach to power, heat and transport.

And, we are working on bringing local communities with us on this radical and urgent shift in our energy system by working for a more diverse and more democratic energy sector.

Finally, we are investing in Regen's capability, including a move to a new office at Bradninch Court in Exeter, to which we look forward to welcoming you.

A handwritten signature in blue ink, appearing to read 'M. Hyman', on a white background.

Merlin Hyman
Chief executive, Regen

Our mission

In 2017, the speed of technological change in energy led us to rethink how we deliver our mission to transform the world's energy systems for a low carbon future. We set ourselves a new goal to accelerate the transition to a decarbonised, decentralised and democratic energy system with three impact priorities:

-  Pioneering new energy models at the cutting edge of the energy transformation
-  Transforming policy and regulation
-  Championing a diverse, engaged and democratic renewable energy sector

We know we can't deliver this mission alone, so we want to work with you, our members, to be a strong, informed and independent force for change.

“ Regen's storage report launch event was a great opportunity to meet and talk to a cross section of parties, providing me with direct feedback on challenges and opportunities they face, allowing me to take that back to National Grid and feed it into our future strategy.

Claire Spedding,
head of business development, National Grid Electricity System Operator

”

 **1,748 PEOPLE**
ATTENDED OUR INDUSTRY LEADING EVENTS

500+
CLEAN ENERGY LEADERS
AND PROFESSIONALS AS
PART OF THE UK'S
VIBRANT NETWORK FOR
WOMEN IN CLEAN ENERGY



TOOK ON THE MANAGEMENT OF
THE ELECTRICITY STORAGE NETWORK
NETWORK

 OUR TWEETS
WERE VIEWED
888.6K TIMES

68 THOUGHT LEADERSHIP BLOGS
SHAPING THE DEBATE ON
THE ENERGY TRANSFORMATION

14 NEW PUBLICATIONS
SETTING OUT
OUR THINKING
ON THE KEY
ISSUES FOR
CLEAN ENERGY



**PROVOKING
DEBATE**



ON GREEN TARIFFS IN THE GUARDIAN



Pioneering new energy models at the cutting edge of the energy transformation

As the sector breaks new ground in the absence of a clear support from government, Regen has used our expertise to get cutting edge sustainable energy projects off the ground and to share the learning to inspire and enable others to follow.

We were delighted to work with the Institute of Welsh Affairs to produce the pioneering Swansea Bay City Region Energy Vision that enabled us to model a regional energy system taking a whole energy system approach across heat, power and transport and to identify the key steps to achieve 100% renewable power by 2035.

The rapid development of electric vehicles poses a challenge as to how transport demand will impact on electricity generation and on the capacity of local networks. We produced the latest in our series of insight papers earlier in the year 'Harnessing the electric vehicle revolution' and set up a regular EV and Electricity System Forum. We are now working with DNOs on scenario planning for the rapid growth of EV charging infrastructure.

The built environment is a key challenge for decarbonisation. We are working with Devon County Council on the Zero Energy Buildings Catalyst (ZEBCat) programme which has just appointed a main contractor to deliver whole-house retrofits to 15 homes in Devon in 2019 using the Dutch 'Energiesprong' approach.





Transforming policy and regulation

A key focus in the past year has been to step up our role as a strong voice for a decarbonised, decentralised and democratic energy system.

We've taken on the Electricity Storage Network and played an active role in the key debate about how use of the electricity network is charged for ([see our podcast here](#)). We've also used our expertise to influence key areas of energy policy including the future of the Feed-in Tariff, Ofgem's network charging review reforms, the ENA consultation on Future Worlds, reform of the Capacity Market and the government's plans to push through fracking in the teeth of the opposition of local communities.

We use our leading events to convene key players to explore the strategies that can capture value in a fast changing market. Our EV and Electricity System forum has brought together a wide range of companies with BEIS, Ofgem, OLEV and HM Treasury. Our annual Renewable Futures conference explored the next wave of the energy transition and the emerging business models that will unlock value in a decentralised, decarbonised and digitalised energy system

We have a seat at the table of key forums such as the BEIS/Ofgem [Smart Systems Forum](#) that sits alongside the Smart Systems and Flexibility Plan. You can see the other groups we sit on [here](#).





Championing a diverse, engaged and democratic renewable energy sector

Our Entrepreneurial Women in Renewables (EWiRE) network aims to make the clean energy sector a leader in harnessing the talents of all of society. We ran our first EWiRE event in Wales with cabinet secretary for Energy, Planning and Rural Affairs Lesley Griffiths and we brought together some of the women at the forefront of the development of electric vehicles in two round table sessions.

It can often seem to local energy stakeholders that the system is weighted heavily towards larger incumbent players. We are playing a leading role developing local energy systems including our series of blogs on the value in 'Local flexibility' and our 'Power to Participate' project. Regen, partnering with Carbon Coop, worked on one of the shortlisted BEIS Flexibility Markets Feasibility Study Competition funded research projects. This project assessed the feasibility of a service which aggregates flexible loads at the household/community level, to participate in local and national flexibility markets.

Locally, we launched the Devon Community Energy Impact Report. The generation of 17,431 MWh of clean, green and community-owned energy, which can power 3,423 homes a year, and has saved 6,080 tonnes of CO₂ emissions, is a great achievement..

We are leading the way in the delivery of animations as communication tools to explain the challenges ahead for the energy networks, which you can see [here](#).



Looking ahead and priorities for 2019/20

Whole system thinking: Just focusing on one technology or one energy vector will no longer cut it, as the rapid development of electric vehicles has demonstrated. Planning of future investment and day to day operations of our energy infrastructure planning needs to become much more joined up across heat, transport and electricity.

Whole system thinking will be a key theme for Regen building on work such as our Energy Vision for Swansea Bay Region and our work on Harnessing the Electric Vehicle Revolution.

Power sector decarbonisation: Bloomberg predict that 73% of \$11.5 trillion new investment in electricity generation to 2050 will go to wind and solar (with another \$0.5 trillion on batteries). However, the political case for very high levels of renewables still needs to be made and managing a decentralised electricity system based on variable generation will require the system operators to adapt and develop new capabilities.

We will be focusing on working with key players on the innovation required to manage a high renewables system – for example our work with Western Power Distribution on scenario planning. We will also be promoting a more supportive policy framework to enable more renewable generation to get built.



The built environment: The UK desperately needs to tackle the decarbonisation of buildings and the provision of low cost efficient homes. We will focus on radical rather than incremental improvements in the building stock: running trials, demonstrating business models and developing new supply chains.

We hope to have builders onsite next year for a trial of a 'zero energy' retrofit of 15 social houses in Exeter using the Dutch Energiesprong model. We will be using the experience of this to engage with policy makers.

Smart and local: The development of viable local energy systems involving local communities is critical to a more democratic and smart approach to energy.

We will be building on our community energy support programme to focus on smart and local energy, linked to the development of smart cities, communities and regions exploiting digital technology and new local energy business models.



Key partners

We would like to thank all our members, partners and clients.



Innovate UK



Llywodraeth Cymru
Welsh Government



Join us

Get plugged into the transformation of the energy system through our policy and market insights, sector knowledge and extensive network developed through ground-breaking research and pioneering projects.

Membership benefits



Have influence

- ▶ Opportunities to engage in our influencing and policy work, and contribute to thought leadership papers and consultation responses. Input from our members helps us to influence government to set the right policy for the industry.
- ▶ Set the agenda by joining our forums and working to address barriers to change such as outdated policy and regulation, working closely with BEIS, Ofgem, National Grid, DNOs and local authorities.



Get connected

- ▶ Showcase your business with exhibition space and network at our events with our 200 members, innovators, influencers, potential partners and customers. Our forthcoming events are listed [here](#).
- ▶ Listed [online](#) as a member; this is a frequently used resource and encourages business relationships between our members.
- ▶ Reach industry talent by posting your job vacancies on our networks and [website](#) for free.
- ▶ Access to our [Entrepreneurial Women in Renewables network](#).
- ▶ Free use of the [Engine Shed](#) Business Lounge in Bristol.



Stay informed

- ▶ Receive timely policy and regulatory updates from our unique and talented team, along with expert market insights through online articles, webinars and regular email bulletins.
- ▶ Discounted exhibition space at [Renewable Futures](#), our major conference and exhibition and [Smart Energy Marketplace](#) the biggest smart energy technology and renewable energy generation show in the south west, to raise your profile and generate new business.

If you aren't yet a member please contact Rachel Hayes, head of networks and development, Regen rhayes@regen.co.uk



Our members

10:10	Cenin Renewables Ltd	EDEN Sustainable Ltd	GoBe Consultants Ltd
Amber Infrastructure Limited	Chelwood Community Energy	EDF Energy Renewables	Good Energy Ltd
5D Group Ltd	Clarke Willmott LLP	EGS Energy Limited	Gravitricity Ltd
Alfen	Clean Energy Prospector	Electricity Storage Network Ltd	Green Nation
Andigestion Ltd	Communities for Renewables CIC	Empire Engineering Limited	Greenshop Solar Ltd
Argand Solutions Ltd	Community Energy England	Energy Saving Trust	GridIMP
Ashfords	Community Energy Scotland	Energy Systems Catapult	Harrison Clark Rickerbys
Association of Decentralised Energy (ADE)	Community Power Cornwall	Energy2market GmbH	Highview Power
Atmo Technology Ltd	Cooks Plumbing and Heating Ltd (Cooks Energy)	Energy4All Ltd	Immersa Ltd
Banks Renewables	Cornwall Insight	Energymyway (UK) Ltd	Infinergy Ltd
Bath & North East Somerset Council (B&NES)	CPlane Design Ltd	Energy-Tec Ltd	Innogy Renewables UK Ltd
Bath and West Community Energy (BWCE)	Dartington Trust	Ethex	International Jack-Up Barge Owners Association
Batteries Unlimited	Dartmoor Woodfuel Co-operative	EV Parts UK	International Lead Association
Blackfish Engineering Design and Product Development	Delta Electronics Europe Ltd	Exeter Community Energy	Invest Northern Ireland
Brendon Hill Tree Services Ltd	Denchi Group	Falmouth Divers Ltd	James Fisher Marine Services Ltd
Bristol City Council	Devon County Council	Federation of Master Builders (FMB)	JMH Farming & Renewables Ltd
Bristol Energy	DNV GL	Fluence Energy GmbH	Jonathan Packer & Associates
Bristol Energy Coop	Dorset Community Energy Ltd	Foot Anstey	Keynvor Morlift Ltd
British Solar Renewables	Duchy of Cornwall	Forest Fuels Ltd	Langage Solar Park Ltd
Burges Salmon LLP	Dunster Biomass Heating	G2 Energy	Laurence Associates
Cadwyn Clwyd	Easton Energy Group	GDK Consulting Ltd	LiCenergy UK
	Eco NRG	Geneco	Low Carbon Contracts Company
	Ecotricity	GI Energy	Low Carbon Gordano
		GJ Renewables Ltd	

Michelmores LLP	Powerstar	Solar South West Ltd	Tidal Lagoon Power Ltd
Midas Group Ltd. - Midas Energy	Powervault	Solar Trade Association	TLT LLP
Miscanthus Nursery Ltd	Public Power Solutions	South Dartmoor Community Energy	TNEI Services Ltd
Moixa Energy Ltd	Pure Energy Professionals Ltd	South Gloucestershire Council	Transition Bro Gwaun
Mole Energy	Pure Planet	South West Water	TRESOC
Mongoose Energy	QBots	Stephens Scown	Triodos Bank
Mypower	Renew Legal	Storelectric Ltd	Uniper Technologies Ltd
Nadder Community Energy	Renewable Energy Association (REA)	Strategic Support	University of Bath
National Grid	Renewable Risk Advisers	Sunamp	University of Exeter
Naturesave Insurance and The Naturesave Trust	Renewables First Ltd	Suncredit UK Ltd	V2G Limited
New Generation Energy Ltd	Ricardo Energy & Environment	Sungift Energy Ltd	Wadebridge Renewable Energy Network (WREN)
Newcastle University	RNA Energy Ltd	Sustainability Practice	Wales & West Utilities Ltd
Opus Energy	Roadnighttaylor	Sustainable Direction Ltd	WElink Group
Origami Energy Ltd	Royal Haskoning	Swanbarton Energy Storage Consultants	West Solent Solar Cooperative
Osborne Clarke	RWE Supply and Trading	Tamar Energy Community	Wind Cluster 2000 Ltd
Ove Arup & Partners International Limited	Scottish and Southern Electricity Networks	Teign Energy Communities	Womble Bond Dickinson LLP
Pegasus Planning Group	Scottish Power Renewables	Telemental Ltd	Zapinamo
Pell Frischmann Consultants	Severn Glocon Technologies Ltd	The Bristol Port Company	Zero Carbon Marine Ltd
Planet Planning Ltd	Siemens Energy	The Co-operative Energy	
Plug 'N' Go Ltd	Simon Annear Plumbing & Heating Ltd	The Holme Estate	
Plymouth Energy Community	SmartestEnergy Ltd	The Landmark Practice	
Portland Harbour Authority	Solar PV Tech	The Quarry Battery Company Limited	
		Thrive Renewables Plc	

Regen accounts summary

Profit and loss account for the year ended 31 December 2017		
	2017	2016
	£	£
Turnover	1,162,673	982,724
Cost of sales	207,993	212,104
Gross profit	954,680	770,620
Administrative expenses	818,534	740,340
Other operating income		140
Operating surplus	136,146	30,420
Interest receivable and similar income	1,050	1,668
Surplus on ordinary activities before taxation	137,196	32,088
Tax on ordinary activities	(26,408)	(6,726)
Surplus on financial year after taxation	110,788	25,362

Balance Sheet for the year ended 31 December 2017				
	31 December 2017		31 December 2016	
	£	£	£	£
Fixed assets				
Tangible assets	16,378			8,042
Current assets				
Debtors	418,750		291,170	
Cash at bank	416,298		464,204	
	835,048		755,374	
Creditors				
Amounts falling due within one year	193,503		217,548	
Net current assets		641,545		537,826
Total assets less current liabilities		657,923		545,868
Provisions for liabilities		(2,795)		(1,528)
Reserves				
Income and expenditure account		655,128		544,340

The information on this page has been taken from the company's financial statements for the year ended 31 December 2017, audited by Old Mill and approved by the Regen board in September 2018. Full copies of these accounts can be obtained from Regen.

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Regen is a trading name of the company Regen SW registered number: 04554636