

THERE IS NO PLANET B

Annual review
2018/19

regen 
transforming energy

What a year



This year marked ten years since I joined Regen. I am hugely proud of the role Regen has played working with you, our members, to accelerate the renewable energy revolution.

But we all know that the impressive achievements of the last decade are just the start. This year millions of protesters, from school children to pensioners, took to the streets to campaign for our planet's future. We now have a net zero carbon emissions goal set in legislation and over 250 local authorities declaring a climate emergency.

Our collective challenge is to turn these ambitions into action at an unprecedented speed and scale.

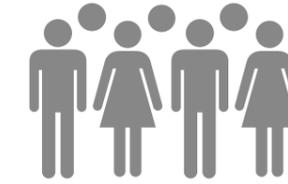
We have stepped up our work to shape the policies, regulations and codes that influence value in the energy system. The Electricity Storage Network we manage has written the legal definition of storage and secured a clearer planning regime.

Our work with energy networks is helping them to take a whole system approach to plan the critical infrastructure needed for a net zero future.

We are leading pioneering projects that harness the seismic shifts in digital technology to enable smart, local energy systems to address power, heat and transport.

We have a decade to make a difference. Our commitment is to work with you to drive forward the decarbonisation of the energy system.

Merlin Hyman
Chief executive, Regen



1,570 PEOPLE

ATTENDED OUR NATIONAL INDUSTRY LEADING EVENTS

12 POLICY PAPERS



Member of the **NET ZERO** task force, using knowledge and evidence to produce an evidence-led Devon Carbon Plan

40

MENTEES
MATCHED WITH
MENTORS EWIRE



69

THOUGHT LEADERSHIP BLOGS
SHAPING THE DEBATE ON
THE ENERGY TRANSFORMATION

THE ELECTRICITY STORAGE NETWORK

As a result of the ESN's positive and influential relationships with decision makers over a number of years, we have succeeded in achieving a comprehensive, technology-neutral and future-proof definition for storage.



NET ZERO

RENEWABLE FUTURES & GREEN ENERGY AWARDS

CONFERENCE | EXHIBITION | AWARDS

120 NOMINATIONS

FOR THE LEADING NATIONAL CELEBRATION OF THE INNOVATIVE TECHNOLOGIES, PIONEERING COMPANIES AND INSPIRING INDIVIDUALS SHAKING UP THE ENERGY SYSTEM.

regen ewire

Entrepreneurial Women in Renewable Energy

The role of women as 'DRIVERS OF CHANGE'

PAPER LAUNCH AT THE HOUSE OF LORDS



13 POLICY RESPONSES

40 MEMBER NEWSLETTERS AND MEMBER UPDATES



Our mission

Regen is a not-for-profit centre of energy expertise and market insight whose mission is to transform the world's energy systems for a zero carbon future.

Energy is the beating heart of our communities, an unseen web that binds us together. Radical change in such a critical system is not going to be easy.

Our strategy is to accelerate the transition to a decarbonised, decentralised and democratic energy system by working in three ways:

-  **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.



We need to show that renewables and energy efficiency can deliver a thriving low-carbon economy - that's why Regen's work is so important.

Edward Davey MP, Deputy Leader of the Liberal Democrats

Leading the energy transition

We have the technologies, expertise and innovation to decarbonise our energy system. We have investors ready to deploy capital at speed and scale. Increasingly, we have public support and recognition of the need for radical changes.

However, we know that we are moving too slowly to address the scale of the challenge.

Regen has been working tirelessly with its members and in partnership with key players in the energy system to accelerate progress by addressing the key challenges to decarbonisation.

We are pioneering innovative approaches to a decarbonised, decentralised and democratic energy system and sharing learning with policy and decision makers. This year alone we have worked on twelve cutting-edge innovation projects.

We are using our expertise to work with local government, devolved administrations and key energy utilities to chart a bottom-up path to zero carbon power, heat and transport.

And we are bringing industry, policy makers and communities together to enable us all to rise to the net zero challenge by sharing ideas and building partnerships. Over 1,570 people have attended our events.

Infrastructure

Our energy infrastructure, the pipes and wires, is critical to a zero carbon future. Regen have developed a bottom-up approach to future energy scenarios at a regional level to provide a robust, evidence-based dataset that can be used for network planning and inform investment appraisal and business planning. We've used this evidence and data to underpin our paper on "Energy Networks for the Future", calling for radical reform of the governance and objectives of the energy system to put decarbonisation and decentralisation at the heart of their remit.

Cities and regions

Increasingly, we are looking to cities and regions for leadership. Regen is working with local areas who have declared a climate emergency – helping them think about the pathways to achieve their ambitions, and how to unlock the investment we need whilst also ensuring a just transition that maintains public support. This year we've worked with the Welsh Government on developing net zero plans for every Welsh region. Next year we will be using the lessons of this work to launch a new paper on the role of cities and regions as part of our 'the decade to make a difference' series.

Local energy

To revolutionise the energy system, we believe we need to turn it on its head and think bottom up. Our **Power to Participate** project examined how emerging flexibility markets can be established in a way that enables local and community organisations to participate – building much needed support for

transformational changes. The **Bristol Energy Smart System Transformation** project aimed to identify innovative ways of selling energy that use digital technologies to enable greater use of local, low carbon generation. We will be building on this work next year with three major new innovation projects focused on designing smart local energy systems and harnessing flexibility at a domestic scale.

Solar Commission

Innovation and falling costs are leading to rapid growth of solar power, with some projections suggesting 50% of power across the world could come from solar by 2050. It is often not recognized that the UK has considerable scientific, technical and business experience in solar power, including technology, power storage, control systems, financing, and power purchase arrangements. Regen worked with the UK Energy Research Centre to establish the **Solar Commission**, to examine areas where the UK could use its scientific and technical capabilities to play a leading role in innovation and industrial strategy opportunities in solar power. The Commission's report was launched at the House of Lords.



Shaping public policy

Regen, along with our Electricity Storage Network arm, works with our 200 business, local authority and community energy members to shape public policy and create a framework that can release the extraordinary innovation and investment needed to transform our energy system.

Public subsidies played a key role in enabling businesses to develop renewable energy at scale and drive down costs. In the coming decade we need markets and system operators to send clear signals as to where there is value in the energy system. We need the enabling planning, infrastructure and tax policies. And we need decarbonisation to be at the heart of every policy and regulation.

We participate in seven key government forums, from the BEIS/Ofgem Smart and Flexible System Steering Group to the System Operator Future of Gas Working Group.

We have written the definition of storage that is being put into statute; we engaged extensively with BEIS officials on planning for storage, leading to an exemption from the national planning regime.

Using the expert knowledge, experience and evidence from our membership, we have highlighted the issue of the negative effects of Ofgem's network charging reforms - leading to a delay in the Target Charging Review changes, new thinking on the access to the electricity network, and pressure for Ofgem to have a clear decarbonisation remit.

Our **Energy Networks for the Future** paper sets a new agenda for energy networks, and we are influencing the next round of price controls to ensure the networks provide the infrastructure that will be critical for net zero, enabling more renewable generation and the electrification of transport and heat.

We are engaging with the transmission system operator and distribution system operators to develop revenue streams for flexibility and system services that are open to new entrants to the market and enable new business models to be investable.

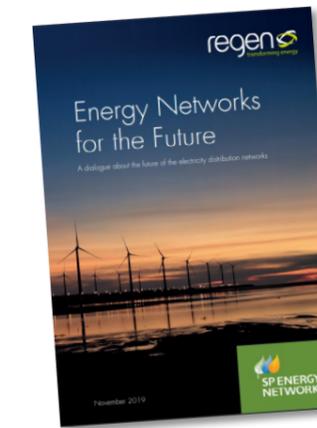
And we are now working on a new paper setting out the challenge of decarbonising heat, to shape the debate as government works on a new heat strategy.

In times of rapid change, like those we face now, our mission becomes even more important. We are looking forward to working with you, our members, to transform energy to build a decarbonised, decentralised and democratic future.



The pace of change and radical transformation required across the industry means we cannot stand still. Net zero needs to be at the heart of energy policy, and we need more local decision making capabilities to meet the unique needs of every community. In order to build the smarter networks of tomorrow, we need a fair regulatory regime that reflects the investment required, the risk associated, and the incentives necessary to meet net zero.

Scott Mathieson, network planning and regulation director, SP Energy Networks



- ▶ Regular meetings with ESN members and National Grid ESO Director of Operations
- ▶ Roundtable with BEIS officials writing the White Paper
- ▶ Representation on Ofgem's RII02 working group
- ▶ Representation on Ofgem's gas working group
- ▶ Direct meeting with the Head of the Capacity Market at BEIS
- ▶ Regular meetings with BEIS storage team representatives
- ▶ Roundtable with BEIS officials and key industry reps to input into the Smart Export Guarantee consultation
- ▶ Four ESN working groups covering planning, markets and revenue and health and safety
- ▶ Over 40 newsletters and member updates
- ▶ 13 consultation responses

nationalgridESO

 Department for Business, Energy & Industrial Strategy

ofgem

Cutting-edge innovation projects

Regen's electric vehicle profiling has evaluated the opportunity for V2G on island electricity networks.

Regen's renewable energy project research is tracking progress towards the Welsh Government's energy targets.

Regen's energy system modelling is enabling Welsh regions to plan their regional energy strategies.



Priority areas 2020

Engaging closely with our membership, and using Regen's detailed knowledge of the energy system and evidence-backed approach, we will focus on the following areas throughout 2020:

Whole system thinking

Focusing on one technology or one energy vector won't address the systemic challenges. We will champion a whole system approach by working with policy makers, system operators and industry.

Smart and renewable power

We will press for policy, regulation and system operation to support a decentralised and flexible power system with very high renewables.

Zero energy buildings

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.

Smart and local

Transitioning our community energy support programme into a wider proposition around smart and local energy, linked to the development of smart cities, communities and regions exploiting digital technology and new local energy business models.

Championing a democratic, diverse clean energy sector

Develop our work to make the clean energy sector diverse, engaged with local communities, and part of a broader movement for change.

“The IWA has worked with Regen on two occasions. On both occasions, the staff at Regen have been passionate and a pleasure to work with. In the most recent commission, we asked Regen to deliver a complex piece of work in a very short space of time and they delivered efficiently and effectively. Regen staff are proactive and they go above and beyond to make sure that the work produced is the best it can be. Regen's experience and specialist knowledge in the energy sector is exceptional.

Shea Buckland-Jones, project coordinator, Re-energising Wales

Key partners

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



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 on our [website](#).
- ▶ 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, rhayes@regen.co.uk



Our members

10:10	Chelwood Community Energy	EDEN Sustainable Ltd	G2 Energy	Low Carbon Contracts Company	Powervault	South Gloucestershire Council	Volitalia UK
5D Group Ltd	Clarke Willmott LLP	EDF Energy	GDK Consulting Ltd	Low Carbon Gordano	Public Power Solutions	South West Water	Wadebridge Renewable Energy Network (WREN)
Alfen	Clean Energy Prospector	EDF Energy Renewables	Gemserv Ltd	Michelmores LLP	Pure Energy Professionals Ltd	Stephens Scown	Wales & West Utilities Ltd
AMP Clean Energy	Climate Change Matters Ltd	EGS Energy Limited	Geneco	Midas Group Ltd - Midas Energy	Pure Planet Limited	Storelectric Ltd	West Solent Solar Cooperative
Andigestion Ltd	Communities for Renewables CIC	ElectraLink	GJ Renewables Ltd	Moixa	QBots	Strategic Support	Wind Cluster 2000 Ltd
Anesco Ltd	Community Energy England	Electricity North West Ltd	GoBe Consultants Ltd	Mole Energy	Renew Legal	Sunamp	Womble Bond Dickinson LLP
Argand Solutions Ltd	Community Energy Scotland	Empire Engineering Limited	Good Energy Ltd	Mypower	Renewable Energy Association (REA)	Sungift Energy Ltd	Zapinamo
Armada Marine Hydraulics Ltd	Community Power Cornwall	Energy Saving Trust	Green Nation	Nadder Community Energy	Renewable Power Ltd	Sustainability Practice	Zenobe Energy Limited
Ashfords	Cooks Plumbing and Heating Ltd (Cooks Energy)	Energy Systems Catapult	Greenshop Solar Ltd	National Grid	Renewables First Ltd	Sustainable Direction Ltd	Zero Carbon Marine Ltd
Association of Decentralised Energy (ADE)	Cornwall Insight	Energy2market GmbH	GridIMP	National Grid ESO	Ricardo Energy & Environment	Swanbarton Energy Storage Consultants	Zero West
Atmo Technology Ltd	Dartington Trust	Energy4All Ltd	Harrison Clark Rickerbys	Naturesave Insurance and The Naturesave Trust	RNA-ENERGY LTD	Tamar Energy Community	ZLC Energy
Aura Power	Dartmoor Woodfuel Co-operative	Energymyway (UK) Ltd	Highview Power	New Generation Energy Ltd	Roadnight Taylor	Teign Energy Communities	
AWEL AMAN TAWE	Delta Energy & Environment	Energy-Tec Ltd	Hutchcroft Ltd	New Resource Partners	Royal Haskoning	The Holme Estate	
Banks Renewables	Denchi Group	Engie	Hydroplan UK	Newcastle University	RWE Supply and Trading	The Landmark Practice	
Bath & North East Somerset Council (B&NES)	Devon County Council	Enso Energy	Immersa Ltd	OM-3	Scottish and Southern Electricity Networks	The Quarry Battery Company Limited	
Bath and West Community Energy (BWCE)	DNV GL	Envirotech	Infinergy Ltd	Opus Energy	Scottish Power Renewables	Thrive Renewables	
Batteries Unlimited	Dorset Community Energy Ltd	ESB Energy Ltd	Innogy Renewables UK Ltd	Osborne Clarke	Siemens Energy	TLT LLP	
Brendon Hill Tree Services Ltd	Duchy College	EV Parts UK	International Jack-Up Barge Owners Association	Ove Arup & Partners International Limited	Simon Annear Plumbing & Heating Ltd	Transition Bro Gwaun	
Bristol City Council	Duchy of Cornwall	Exeter Community Energy	Invest Northern Ireland	Pegasus Group	SmartestEnergy Ltd	TRESOC	
Bristol Energy	Dunster Biomass Heating	Fluence	Jonathan Packer & Associates	Planet Planning Ltd	Solar PV Tech	Triodos Bank	
Bristol Energy Coop	Easton Energy Group	Foot Anstey	Keynvor Morlift Ltd	Plug 'N' Go Ltd	Solar South West Ltd	Uniper Technologies Ltd	
BSR Group	Ecodyn Ltd	Foresight Group	Langage Solar Park Ltd	Plymouth Energy Community	Solar Trade Association	University of Bath	
Burges Salmon LLP	Eco Nrg Ltd	Freeths	Laurence Associates	Portland Harbour Authority	South Brent Community Energy Society	University of Exeter	
Cenin Renewables Ltd	Ecotricity Generation Ltd	Federation of Master Builders (FMB)	Low Carbon Alliance		South Dartmoor Community Energy	Valda Energy	
						V2G EVSE	



Regen have consistently led the energy revolution from the front by capturing information and using it to lobby and inform decision makers across the sector at the highest levels. Being a member has helped us to focus the business and learn the dialogue of change in a challenging and exciting marketplace.

Jonathan Davis, Midas Energy



Regen accounts summary

Profit and loss account for the year ended 31 December 2018		
	2018	2017
	£	£
Turnover	1,265,501	1,162,673
Cost of sales	250,247	207,993
Gross profit	1,015,254	954,680
Administrative expenses	978,082	818,534
Exceptional item	55,000	0
Operating surplus	92,172	136,146
Interest receivable and similar income	1,691	1,050
Surplus on ordinary activities before taxation	93,863	137,196
Tax on ordinary activities	(19,277)	(26,408)
Surplus on financial year after taxation	74,586	110,788

Balance Sheet for the year ended 31 December 2018				
	31 December 2018		31 December 2017	
	£	£	£	£
Fixed assets				
Tangible assets	54,830		16,378	
Debtors	417,209		418,750	
Cash at bank	477,368		416,298	
		894,577		835,048
Creditors				
Amounts falling due within one year	209,080		193,503	
Net current assets		685,497		641,545
Total assets less current liabilities		740,327		657,923
Provisions for liabilities	(10,613)		(2,795)	
Reserves				
Income and expenditure account		729,714		655,128

The information on this page has been taken from the company's financial statements for the year ended 31 December 2018, audited by Old Mill and approved by the Regen board in May 2019. Full copies of these accounts can be obtained from Regen.

Regen team

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Hazel Williams	head of delivery hwilliams@regen.co.uk

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 strategy, Sembcorp Energy UK
Nigel Topping	chief executive, We Mean Business
James Vaccaro	special advisor, Triodos Bank

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