

Member Meeting 15th February 2023

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BECBC

Britain's Energy Coast Business Cluster

WHERE ENERGY MEETS BUSINESS



Housekeeping



BECBC
Britain's Energy Coast Business Cluster

Agenda

- Welcome and Round the Room
- BECBC Updates including launch of a new group!
- Lynn Tracey from ENW and Quentin Boyes from Community Data Coop
- Carl Gurney, Marsh Commercial: climate vs cost.
- Networking, tea and coffee
- Alex Grainger and Chris Watson from Tetrattech
- Egg timers: Lee Williams, Arran Pamphilon and Richard, Zak and Rebecca from Lakes College
- Panel Session: "With sustainability requirements now being flowed down on government contracts how can members best prepare themselves to have a strong response and balance this with energy affordability?"
facilitated by Tom Scaife



Round the room



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WHERE ENERGY MEETS BUSINESS

BECBC Updates



Organisational Health for Performance

– New Sector Group

Jo Telfer

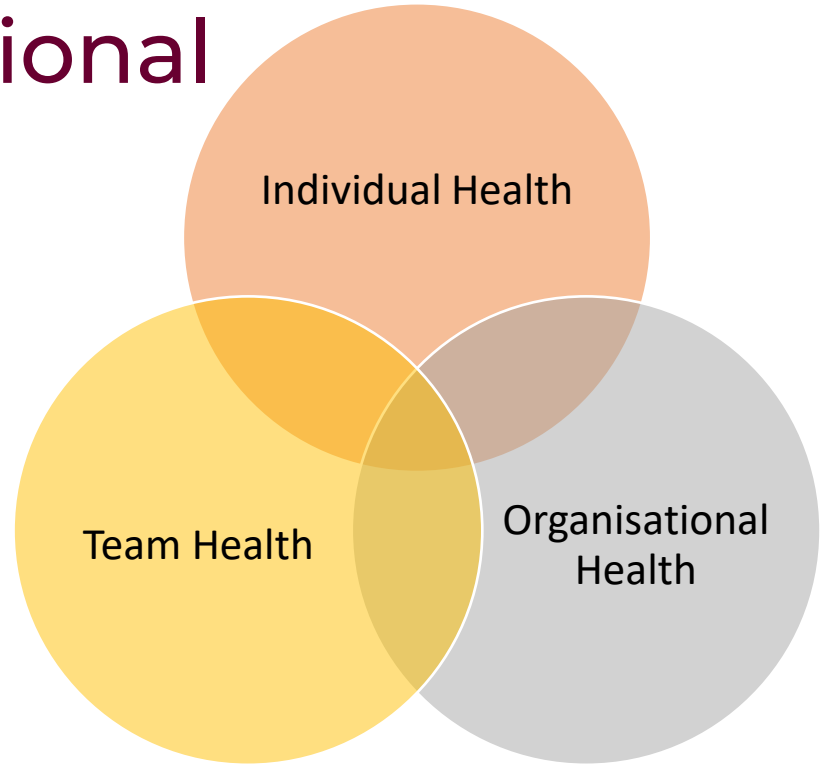


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What is Organisational Health?

- The ability of an organisation to adapt, thrive, and be successful through taking a 'whole system' view of health.
- Increased attention has been given in recent years to the need to view good organisational health from a holistic and whole-organisation perspective.

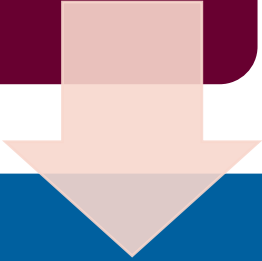


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Aims

The group will **provide opportunities for information exchange, peer networking and upskilling.**

Through these interactions, participants can **increase their capability to resolve their organisational health issues and build on opportunities**



A co-created forward plan of topics for each meeting

Shared in advance, to allow members to **identify the relevant individual(s) from their organisation to attend**

What topics might we cover?

Individual Health

- Morale, Workload Assessment, Resilience, Decision Making

Team Health

- Managing in a Hybrid Environment, Holding to Account, Giving & Receiving Feedback, Team Dysfunctions

Organisational Health

- Psychological Safety, Organisational Identity, Change Management, Managing in a VUCA world, Culture Change

Who is this Sector Group aimed at?

Anyone who...

- is interested in gaining a better understanding of the broad organisational health issues in their business and other businesses in the region
- is seeking ideas and insights, who would also enjoy sharing their ideas and insights
- would value discussions with peers towards potential solutions
- Health & Safety, Human Resources and Organisational Development Professionals.

Importantly, we wish to encourage involvement from line managers who do not traditionally get the opportunity to share their lived experiences to take part in active workshops and practical learning

Next Steps....

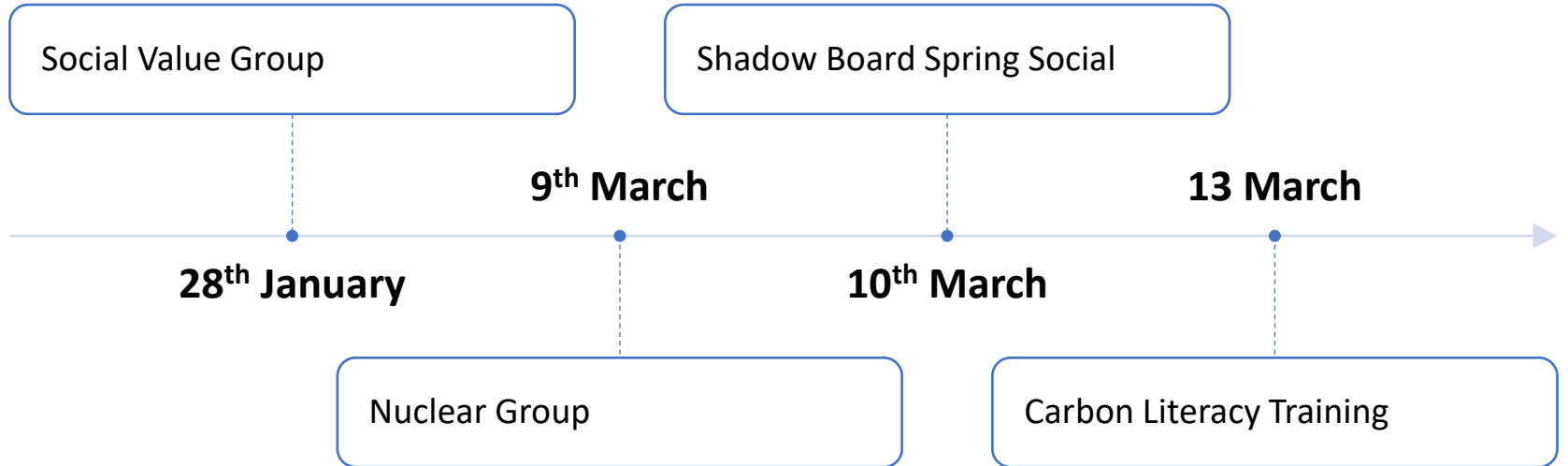


Call-out for names to take part in our scoping workshop – where we will develop the annual forward plan of topics



Support also sought through provision of meeting space for these sessions

Upcoming meetings



#BECBCTurns20



Work with us on a project to engage with secondary school students, apprentices or graduates



Hold a Dinner for 20



Share your memories of BECBC with us or wish us a happy birthday on social media.



Come to the birthday party- save the date! 11th July at Lakes College.

<https://www.becbusinesscluster.co.uk/becbc-turns-20>



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Member asks



BECBC Members event

15th February 2023

Lynn Tracey, Net Zero Business Engagement
Manager

Stay connected...



www.enwl.co.uk

Our role – leading the North West to net zero



Our business plan 2023-28 – Leading the North West to net zero



1) **Enabling** –
network
capacity &
reliability



2) **Leading by
example**



3) **Helping our
customers take
action on net
zero**

Business

Domestic

Community



A free service to help North West businesses reduce their energy bills and carbon emissions

1)

Explaining the technologies available

2)

Highlighting the latest funding, grants and financial incentives

3)

Sharing case studies of successful projects

4)

Signposting to local suppliers and installers

5)

Introducing other support available from Electricity North West and our

One-to-ones • Website • Events

enwl.co.uk/NetZeroForBusiness



Headlines



- 1990 baseline
- 44% CO₂ reduction achieved by 2019
- 68% CO₂ reduction by 2030
- 78% CO₂ reduction by 2035
- Net zero by 2050.

Transport



- No new petrol or diesel cars or light vans sales from 2030
- No hybrid sales from 2035
- All new HGVs <26 tonnes sold zero emission by 2035
- All new HGVs sold zero emission by 2035

Energy



- Decarbonised power sector by 2035
- Currently 43% of electricity from renewables (2020)
- 7% in 2010.

Buildings and heating



- Heating from:
 - Heat pumps
 - Heat networks
 - Hydrogen (Decision 2026)
- EPC B for landlord properties by 2030
- EPC C all homes by 2035 'where practical, cost-effective and affordable'.

UK Net Zero Strategy: <https://www.gov.uk/government/publications/net-zero-strategy>

Transitioning to Zero Emissions Cars and Vans: <https://www.gov.uk/government/publications/transitioning-to-zero-emission-cars-and-vans-2035-delivery-plan>

HGV announcement: <https://www.gov.uk/government/news/uk-confirms-pledge-for-zero-emission-hgvs-by-2040-and-unveils-new-chargepoint-design>

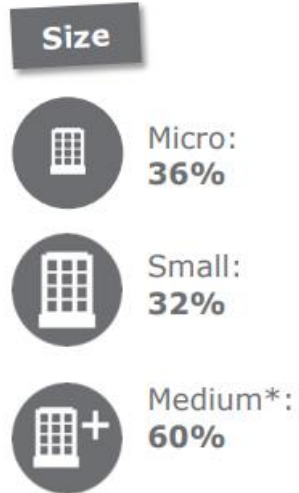
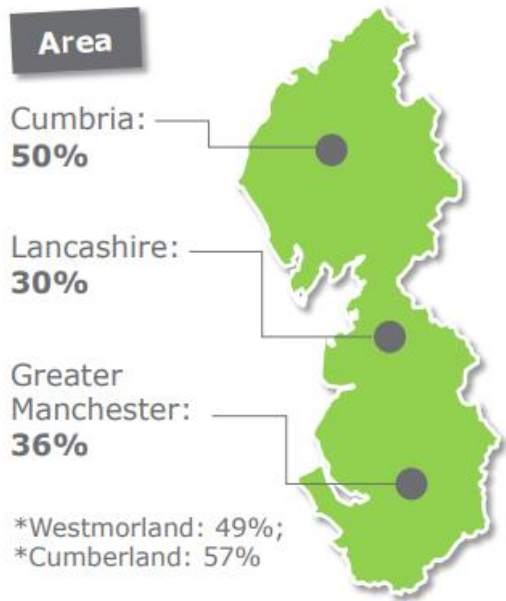
Heat and Buildings Strategy: <https://www.gov.uk/government/publications/heat-and-buildings-strategy>



Almost four in ten consider 'reducing carbon emissions' to be a priority

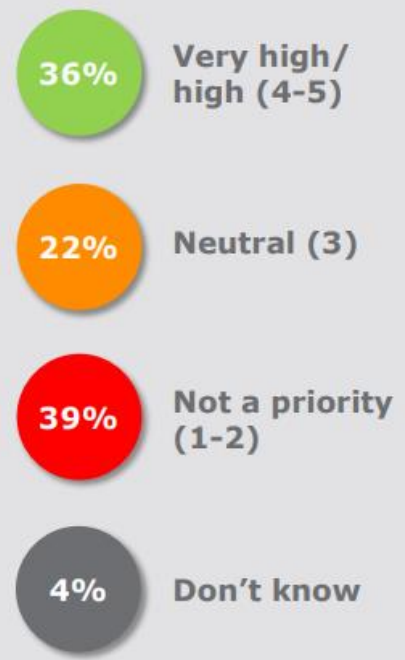
Indicatively, businesses based in Cumbria are most likely to consider it priority, and small businesses or those in Wholesale & Retail least.

Which businesses **are most** likely to consider reducing emissions a priority?



Other sectors: 37%

How much of a priority (out of 5) is 'reducing carbon emissions over the next 12 months?'

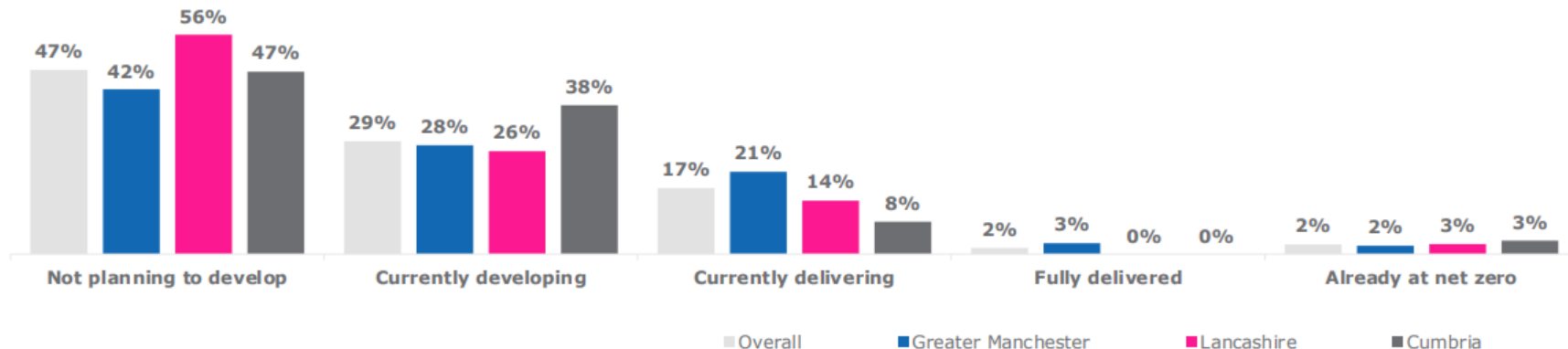




Almost half of businesses claim to have no plans to develop a net zero plan

There are a couple of notable regional variations. Cumbria has almost 10% more businesses in the development stage (38% vs 29% overall) whereas Lancashire businesses occupy the same leading margin in the 'not planning to develop' category (56% vs 47% overall).

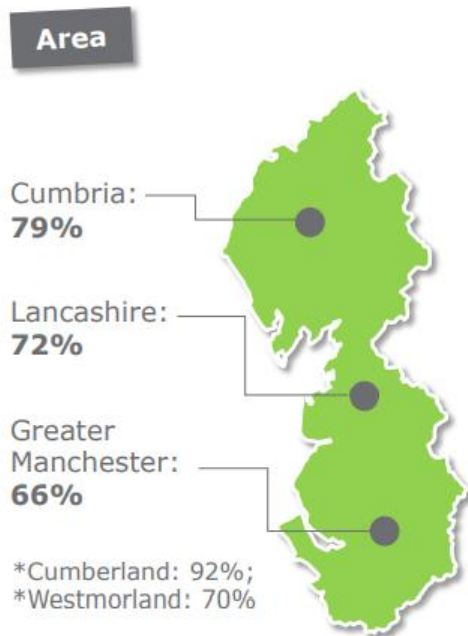
Which of the following best describes your business's current position on planning for Net Zero?



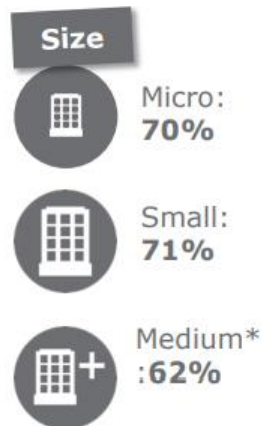


69% of all businesses have already installed an energy efficiency measure

Which businesses have already installed an energy efficiency measure?



Other sectors: 78%



Key motivators for installing energy saving/carbon reduction measures:



Saving on business' annual energy bills (87%)



Reducing carbon footprint (40%)



Cumbria respondent profile

52 telephone interviews conducted with Cumbria businesses between July and August 2022.

Business size (no. of employees)



0-9 Micro:
68%
(90%)



10-49 Small:
23% (7%)



50+ Medium:
7% (2%)

Single or multiple site



Single site:
91% (81%)



Multiple sites:
9% (19%)

Area comparators

- **Cumbria:** 25% (13%)
 - Westmorland – 15% (8%)
 - Cumberland – 10% (5%)
- **Greater Mcr:** 54% (58%)
- **Lancashire:** 21% (29%)

Tenancy

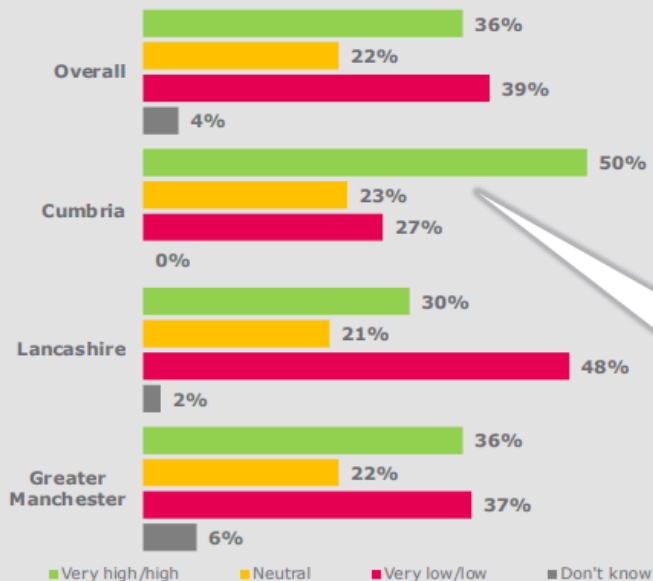
- **Owner Occupied:** 46% (48%)
- **Rent/lease building from landlord:** 40% (39%)
- **Rent/lease office in shared building:** 14% (14%)



Half of businesses in Cumbria regard reducing carbon emissions to be a very high or high priority

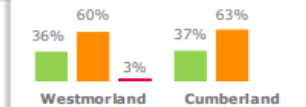
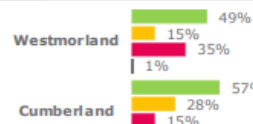
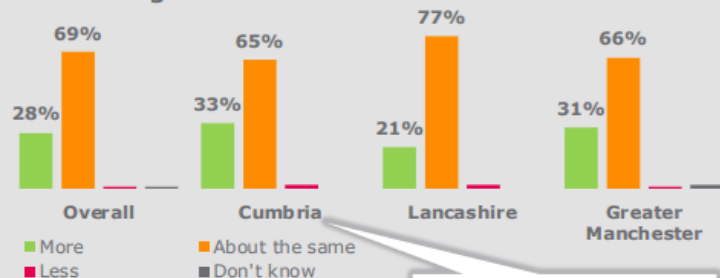
Level of priority

How much of a priority (out of 5) is reducing carbon emissions over the next 12 months?



Change over time

Is it more or less of a priority than it was 12 months ago?



Top 3 reasons for increased priority*

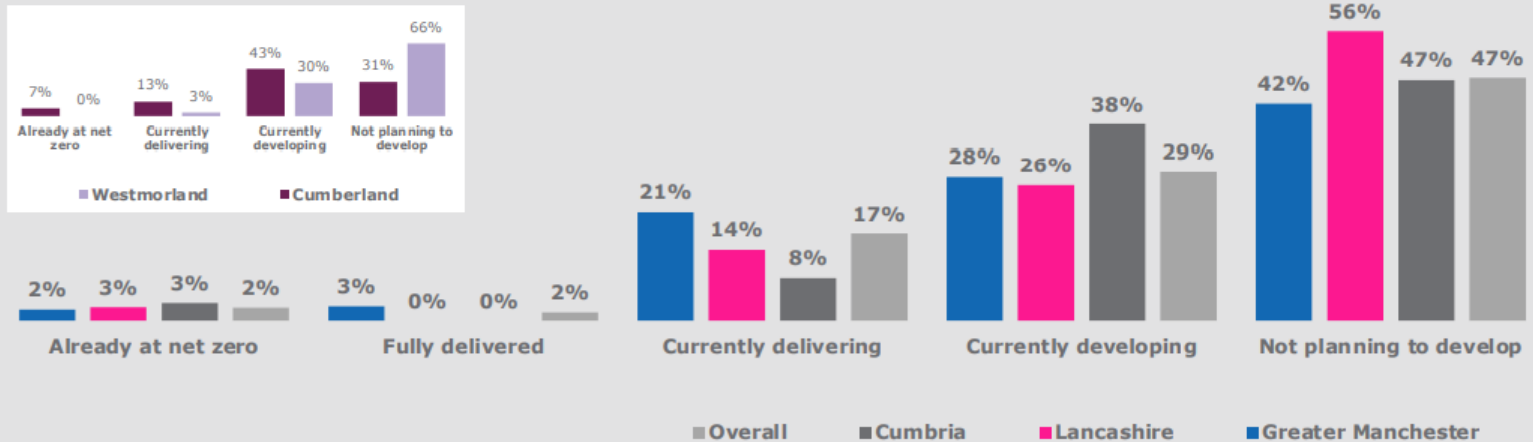
1. Reduction in costs/bills
2. Rise in awareness
3. To be environmentally friendly



Just under half of businesses in Cumbria have no plans to develop an approach to net zero

The proportion of businesses in Cumbria with no plans to develop a plan for net zero (47%) is in line with the view for businesses overall, slightly higher than Greater Manchester (42%) but less than Lancashire (56%).

Which of the following best describes your business's current position on planning for Net Zero?



Drivers for businesses to act now



Commercial & market drivers

Policy & legislation



Energy costs
and financial
savings



Investors and
stakeholders

Your
customers

Your
competitors



Financial
incentives &
grants



Requirements



Increased
innovation



Improved
reputation



Ofgem 'access significant code review' new arrangements from 1 April 2023

Different charging arrangements for demand and generation

Demand – no reinforcement charges

Generation – reduced reinforcement charges

Storage treated as generation

	Extension assets	Reinforcement assets at connection voltage	Reinforcement assets at connection voltage +1
Current arrangements	Connecting customer pays 100%	Connecting customer pays a proportion of the reinforcement costs	Connecting customer pays a proportion of the reinforcement costs
New arrangements (Demand)	Connecting customer pays 100%	Fully funded by the DNO via DUoS	Fully funded by the DNO via DUoS
New arrangements (Generation)	Connecting customer pays 100%	Connecting customer pays a proportion of the reinforcement costs	Fully funded by the DNO via DUoS

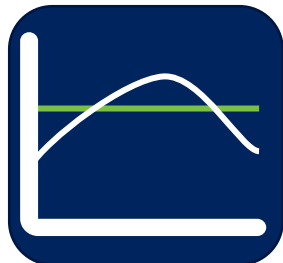
Some exceptions...

What are Flexible Services?



Flexible Services is the term given to the act of reducing or increasing consumption or generation following receipt of a signal, due to a network constraint.

In simple terms, it means a customer generating more or using less electricity after we've asked them to.



A network constraint is when safe network operating limits are breached.

This means the requirement for electricity in the area is greater than the amount that the local network is capable of providing.

In return for providing Flexible Services a customer will **receive payment**





Following feedback from stakeholders we've developed some case studies as examples of who, and how could participate



Demand reduction

A supermarket is looking to provide Flexible Services through a Secure contract by reducing their energy usage at peak times.

[Read more](#) →



Generation

A dairy farmer is looking to provide Flexible Services through a Dynamic contract by increasing their generation following a fault or unplanned network event.

[Read more](#) →



Energy efficiency

A warehouse is looking to provide Flexible Services through a Sustain contract by reducing their long term energy demand.

[Read more](#) →

These are available here: [Flexible Services case studies \(enwl.co.uk\)](https://enwl.co.uk)



Email

For all queries relating to this event, or flexibility services, please contact our team at flexible.contracts@enwl.co.uk



Feedback form

Alternatively, you can fill out our [online feedback form](#)



Register asset

You can [register your asset\(s\)](#) on our website to be notified when we have a requirement in your area



Surgery appointments

We offer 1-2-1 surgery appointments to assist with any queries relating to the process of providing flexibility

[Book here](#)



Sign up

[Sign up to our distribution list](#) to receive our newsletters, tender information and event invites



Lynn.tracey@enwl.co.uk



enwl.co.uk/net-zero-for-business



07900 165 889

References

DFES 2021

enwl.co.uk/dfes

**Access significant
code review**

ofgem.gov.uk/publications/access-and-forward-looking-charges-significant-code-review-decision-and-direction



- Broadly it seems that around half of all the businesses that were spoken to have net zero on their radar and are making some attempts to adjust their behaviour.
- But that means half aren't.
- The question is why?





In short, lack of awareness and knowledge about net zero challenges and solutions seem to be major blockers to change.

When BECBC respondents were asked the question 'Before today, how much, if anything, did you know about 'net zero'?', answers were not that encouraging:

- 33% admit to 'hardly anything but I've heard of it' or 'hadn't heard about this before'
- 50% did not know the Cumbria target date is 2037
- And 66% think UK and Cumbria will miss net zero target dates
- 1 respondent commented that a failure to achieve net zero targets will have 'no impact on how we live in Cumbria', whilst at the other end the prophecies aren't cheerful:
 - *'Decrease in quality of life, more extreme events, communal depression, and maybe in time social unrest'*
 - *'Cumbria will face more flooding. Climate change will impact on business, agriculture and farming in particular. May be danger to coastal areas if seas do rise'*

Clear need for a trusted source/forum for information gathering and sharing...



However, BECBC respondents indicate they do care on a personal level and are making changes to behave more sustainably.

- 5 out of the 6 respondents agreed that individual actions can make a difference in achieving net zero
- 4 out of 6 said they have changed their personal behaviour recently to reduce their impact on the planet's environment giving examples such as:
 - *'I recycle a lot more than previously; I have recently bought a hybrid car & I am in the middle of planning to have solar panels installed on my house next year'*
 - *'Bought an electric car, renewable electricity supplier, drinking less milk and eating less meat etc'.*
 - *'Walking to work instead of driving every day'*
 - *'I attend online meetings where possible. I had a garden office built which is more energy efficient to heat than the main house'*

Simple actions which could be collated, curated and shared in workplaces across Cumbria...



And when asked to take a step back and think about ‘What role do you think your business/employers should play in achieving sustainability in its broadest, societal sense?’...

- *‘I think each business should do its part in achieving net zero, in the broadest sense it's the moral/right thing to do to help safeguard future generations’*
- *‘Lead by example strategically with both buying and selling decisions. Educate their employees to do their bit at work and at home. Put pressure on local and national government to pull their finger out and do their bit!’*
- *‘Spreading awareness for how we can make a change’*
- *‘Huge role - if every company strives to become net zero, the overall impact can be huge. We should help to influence change’*

Consensus that businesses need to lead the way...



And regards views on the role of local businesses in creating, supporting or delivering community initiatives to change behaviour to be more environmentally friendly...

- *'Everyone needs to put sustainability on their agenda. Larger businesses and public sector organisations must lead by example; schools should include something on the topic every day/week. Communities per se need to demand that their shops, transport systems, air quality are all more sustainably delivered'*
- *'I think we are seeing more and more initiatives from larger companies in the area - it would be great to see more SME's involved'*

Good example in play at the moment - Leading Change Sustainability Programme with Sellafield and Centre for Leadership Performance, linking schools with local business mentors and cash to deliver sustainability projects



So, what's to do?

- Help SME's get net zero higher on their agenda and explore BECBC members being exemplars..
- Ultimately there needs to be a shift in the 'high priority' and 'more of a priority' responses for significant change to take place
- The challenge is probably getting more stakeholders in a workplace to commit to achieving change in behaviour
- It's clear that lack of information and costs are initial barriers to change but there also seems to be some sort of inertia preventing people sharing their personal actions with their employers and colleagues. In the workplace





So, what's to do cont?

- There are significant challenges around identifying which information provision most needed as a catalyst for change:
 - Benchmarking - providing a business with an accurate measurement of its current emissions to set achievable goals?
 - Information and case studies around alternative ways of operating?
 - Financial support?
 - Insight into community needs and wants around net zero and sustainability challenges?
- It is interesting to note that respondents' understanding of sources for help and guidance on achieving net zero are many – with government referenced the most, at 34% of all respondents. But clearly what's out there not very motivating and probably confusing
- Clearly a need for local 'go-to' resource for Cumbrian SMEs, which meets your needs and talks your language



Which all leads nicely to the question What can BECBC and ENW do to help?



Set up a BECBC Net Zero Support Group?

- Establish what success for a group looks like
- Gather more insights and feedback from members to support these results – <https://bit.ly/BECBCNETO>
- Create a plan with a pathway for creating and continuing momentum

Identify key partners who may add value once we've sift out what's useful to us:

- Centre for Partnerships - innovative collaborative thinking and procurement processes being developed by Cardiff, Manchester, Northumbria and Stirling Universities
 - www.centreforpartnering.org/
- Community Data Co-op – community engagement and insights such as these co-delivered with ENWL and BECBC
 - www.communitydatacoop.co.uk
- Cumberland Council - strategic development implementation support
 - www.cumberland.gov.uk/
- Cumbria Action for Sustainability - tools, education and support
 - www.cafs.org.uk
- Electricity North West - grants, incentives, partnerships and case studies
 - www.enwl.co.uk/go-net-zero/
- Green Finance Community Hub (formerly Green Investment Plan Project) - project financing
 - www.greenfinancecommunityhub.co.uk
- SME Climate Hub - non-profit global initiative that empowers small to medium-sized companies to take climate action and build resilient businesses for the future
 - www.businessclimatehub.org/partners/

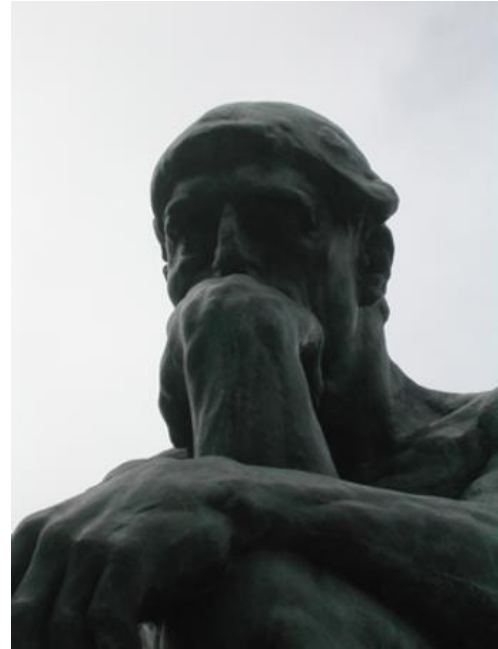
“listening”





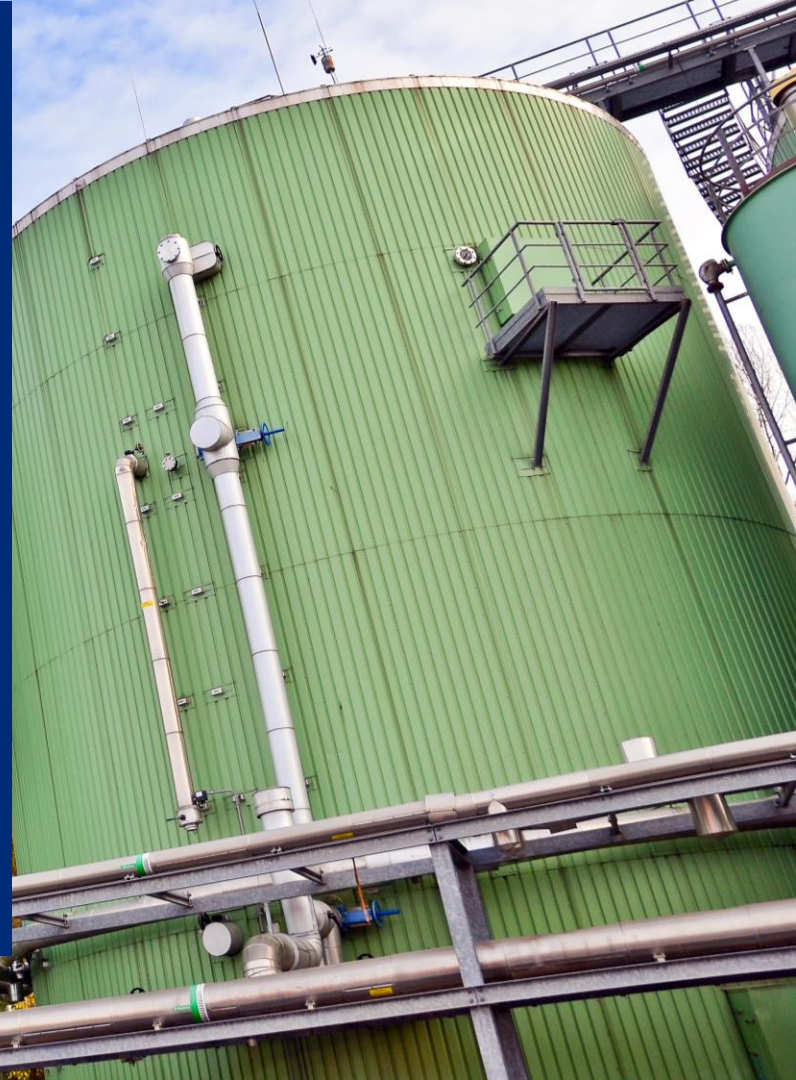
And your thoughts...?

Please share your ideas via the survey <https://bit.ly/BECBCNET0>



Climate change versus cost

Carl Gurney,
Renewable Energy Director



Introduction

- Marsh McLennan – Founded in 1871, 85,000+ colleagues, net-zero commitment for 2050.
- 20+ years in insurance, with 16 years experience in renewable energy.
- Full team dedicated to power generation and infrastructure.
- Board member and steering groups.
- Consultations with Environment Agency.



Climate change: the facts



Source:

1 nationalgeographic.co.uk/26facts

2 [Marsh Global Risks Report 2023](#)

Challenges businesses face



- Energy crisis.
- Inflation.
- BREXIT.



- Geo-political landscape.
- Supply chain.



- Global pandemic.
- Employees health.



- Increased regulation.



- Consumers.
- Employees.



- Climate change.

What can we do?



Concept

- Get it off the AOB and onto the Agenda.



Decide where to start

- Start small and think big.
- Implement a plan.



Contracts

- When you move to invest, carry out good due diligence before signing.



Risk

- Doing nothing is probably your biggest risk.



Market/Environmental, Social, and Governance

- Benefits in attracting customers, winning contracts and attracting/retaining employees.
- Will help enhance your ESG credentials.

Conclusion

- There are many challenges businesses face.
- None greater than climate change.
- Act now, get it on the agenda.
- Take small steps and grow from there.
- Not only are there planetary benefits, but also business benefits.



Questions?



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Networking



BECBC

Britain's Energy Coast Business Cluster



TETRA TECH

Energy Sustainability

Alex Grainger, Chris Watson

February 2023

What we do

Leading with Science[®]



Water

Environment

Infrastructure

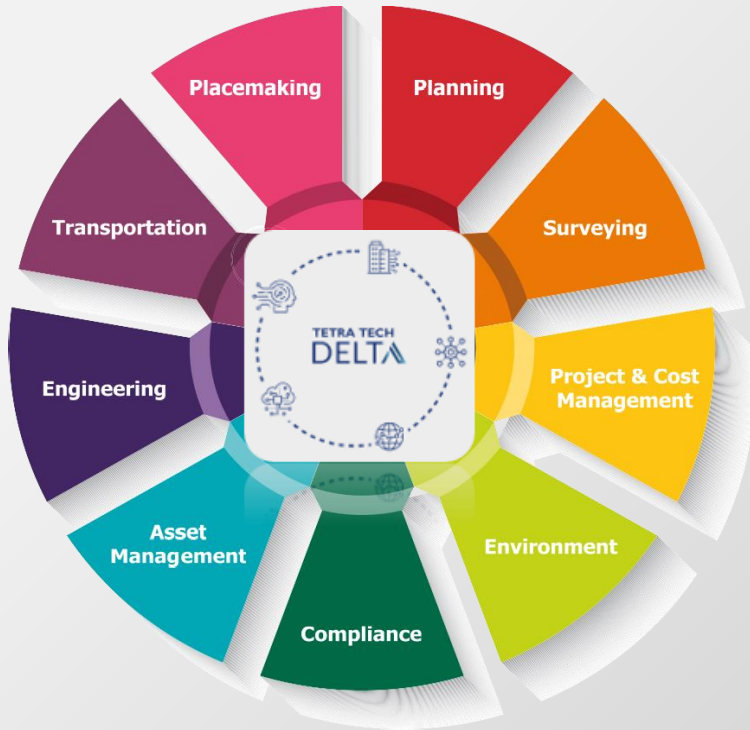
Resource
Management

Energy

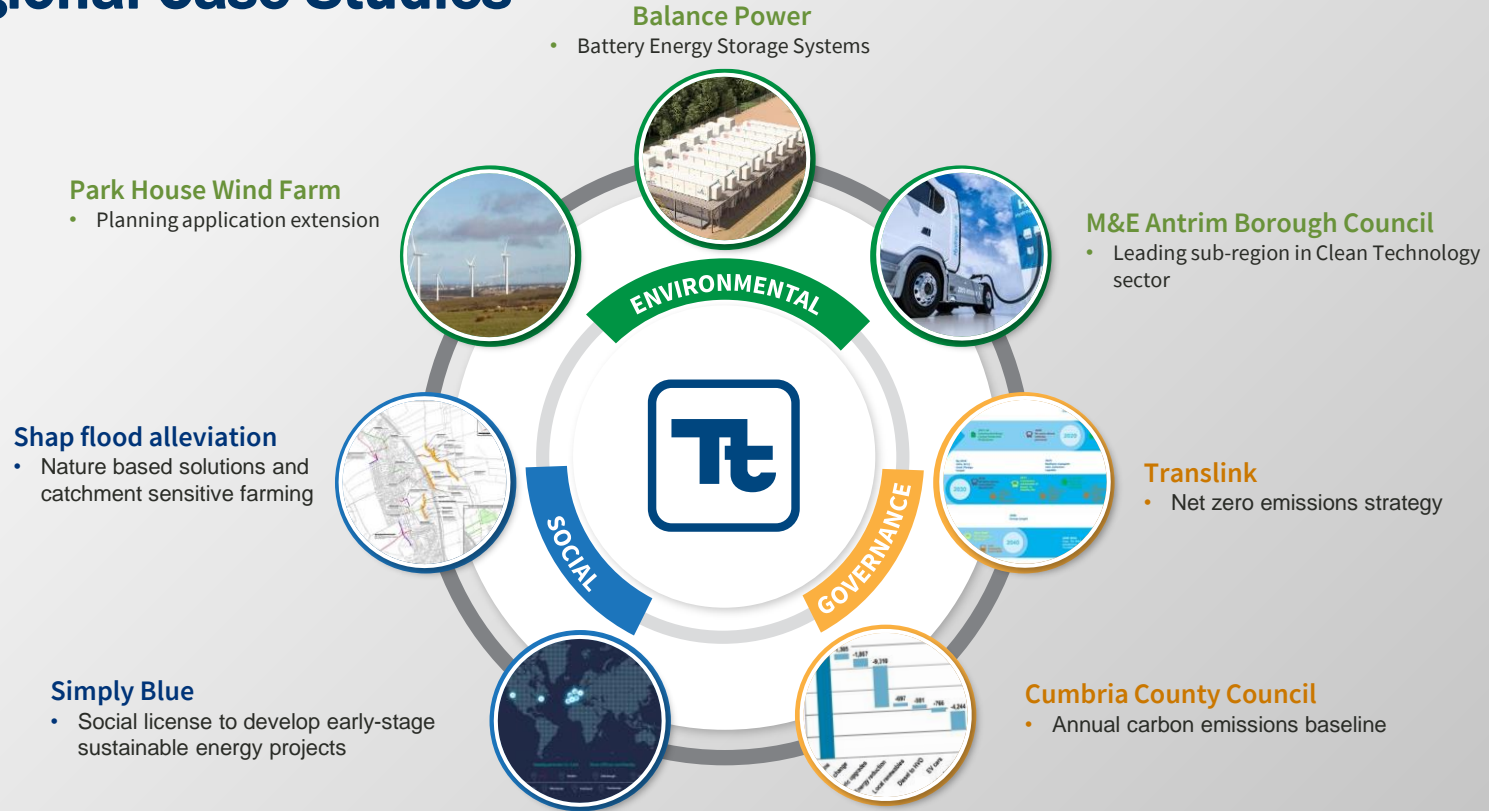
International
Development

In a complex world with competing demands for limited resources, Tetra Tech offers clear solutions made possible with sound science, understanding, innovation, and industry-leading approaches.

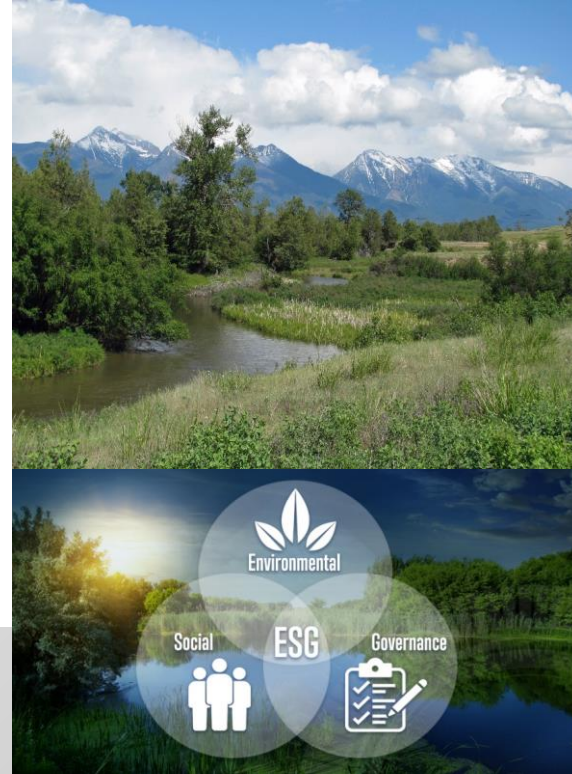
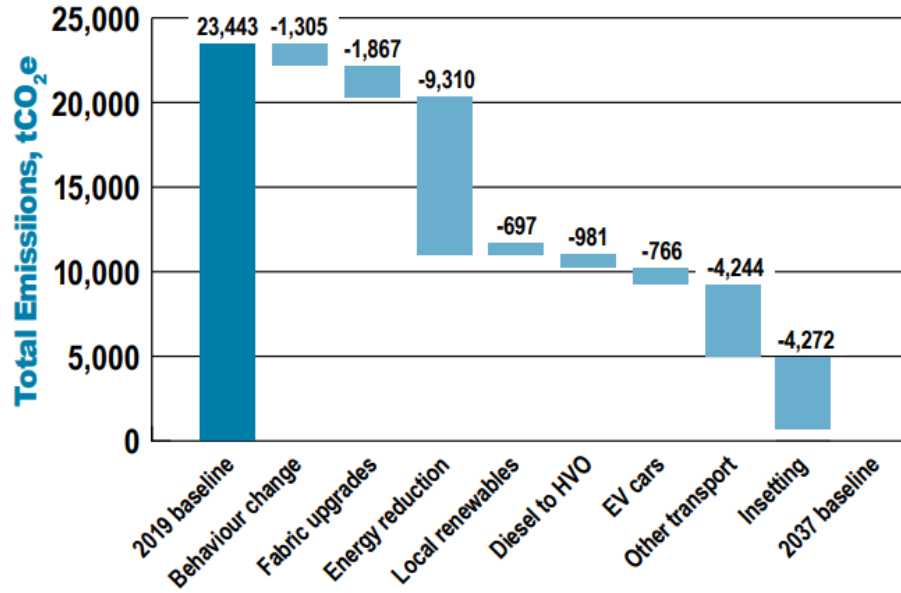
Tetra Tech Europe Business



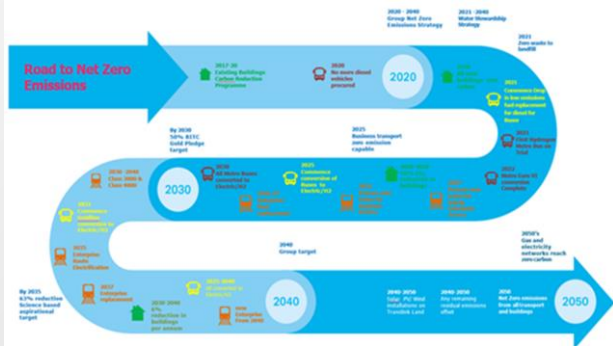
Regional Case Studies



Case Study: ESG and Net Zero Pathways



Case Study:



Wind and Battery Power



Delivering 49.9MW battery projects at 43 National Grid substations



Tetra Tech Delta



Tetra.Analytics

AI, machine learning, analytics, and workflow and process optimization

Tetra.Cloud

Cloud computing, cybersecurity, and software development

Tetra.Design

Smart buildings, sustainability, and energy and asset management

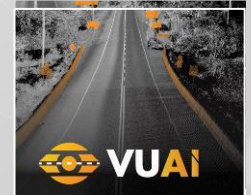
Tetra.Maps

Data collection, geospatial analytics, interactive dashboards, and virtual reality

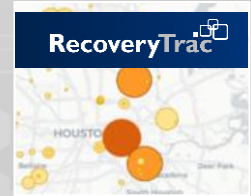
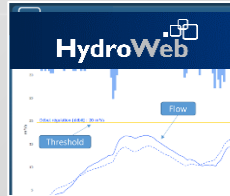
Tetra.Simulate

Scenario analysis, modeling, forecasting, risk, and impact analysis

Tetra Tech Delta Technologies



Autonomous monitoring and AI for increased efficiency and accuracy



Digital transformation and real-time decision-making



Advanced predictive analytics and digital dashboards

Tetra Tech Sustainability Programme



1 Billion People Challenge Baseline Metrics

411 million
people's
lives improved

328,000
megaliters (ML)/year
of water treated,
saved, or reused

16,800 megawatts
(MW)/year
renewable energy identified,
planned, or generated

178 million
hectares
(ha)/year of land and
water protected,
managed, or restored

20.6 million
CO₂e
metric tons (MT)/year
avoided or captured

Locations



With 470 offices worldwide,
we can quickly respond to
our clients' needs.

Global Overview



22,000 STAFF



\$3.5B
ANNUAL
REVENUE

20,000
CLIENTS



WORKS ON
80,000
PROJECTS ANNUALLY

ENR RANKINGS

#1 Environmental Management

#1 Hydro Plants

#1 Water

#1 Water Treatment/Supply

WORKS IN

100+
COUNTRIES

7
CONTINENTS

470

OFFICES WORLDWIDE



Publicly
Traded on
NASDAQ

TTEK
NASDAQ
GLOBAL SELECT

Egg Timers



BECBC

Britain's Energy Coast Business Cluster



Employee wellbeing & the hidden energy crisis.

Dr Lee Williams

Chief Wellbeing Officer

My Wellbeing Index Limited

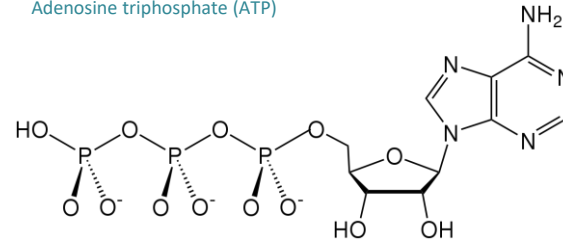
lee@mywellbeingindex.co.uk



The hidden energy crisis...



Adenosine triphosphate (ATP)



Scan me to see...



Mental wellbeing costs UK plc £56 billion per annum



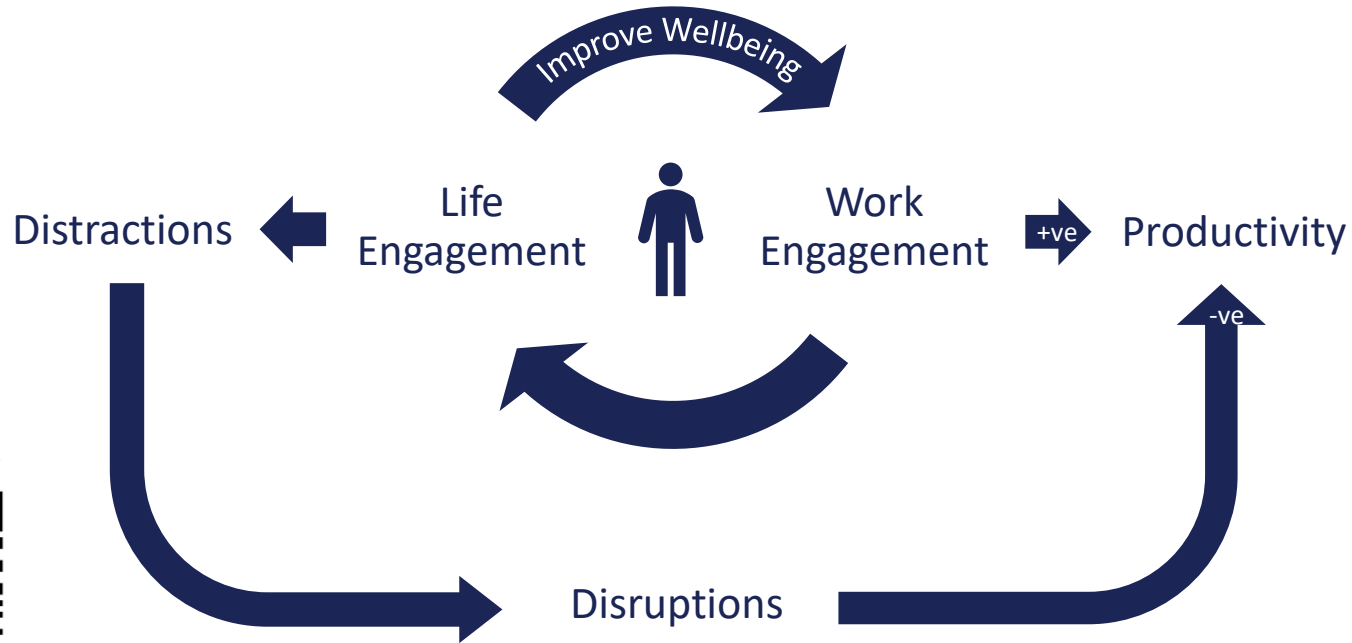
Recruitment success is now affected by your wellbeing offering



Human energy is an untapped opportunity for growth and ROI

Source:
1. Mental health and wellbeing: Redefining the cost for investment, October 2019

The 'human energy' system...



Scan me to see...



The wellbeing problem...



Scan me to see...



25 Mental health issues



60 Sleep related issues



30 Financially vulnerable

Focus on wellbeing...

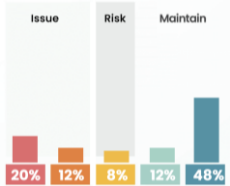


Scan me to see...

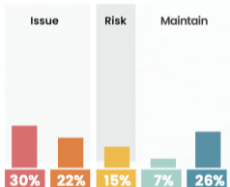


Wellbeing experience & impact

Team A



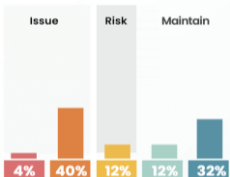
Team B



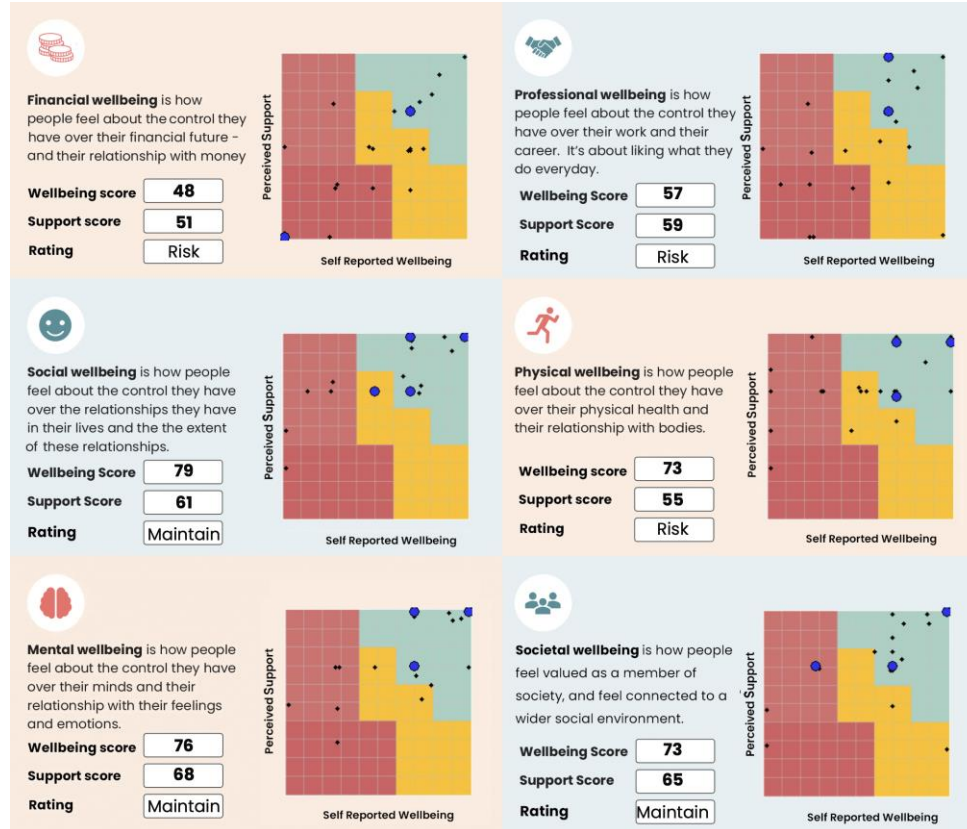
Scan me to see...



Team C



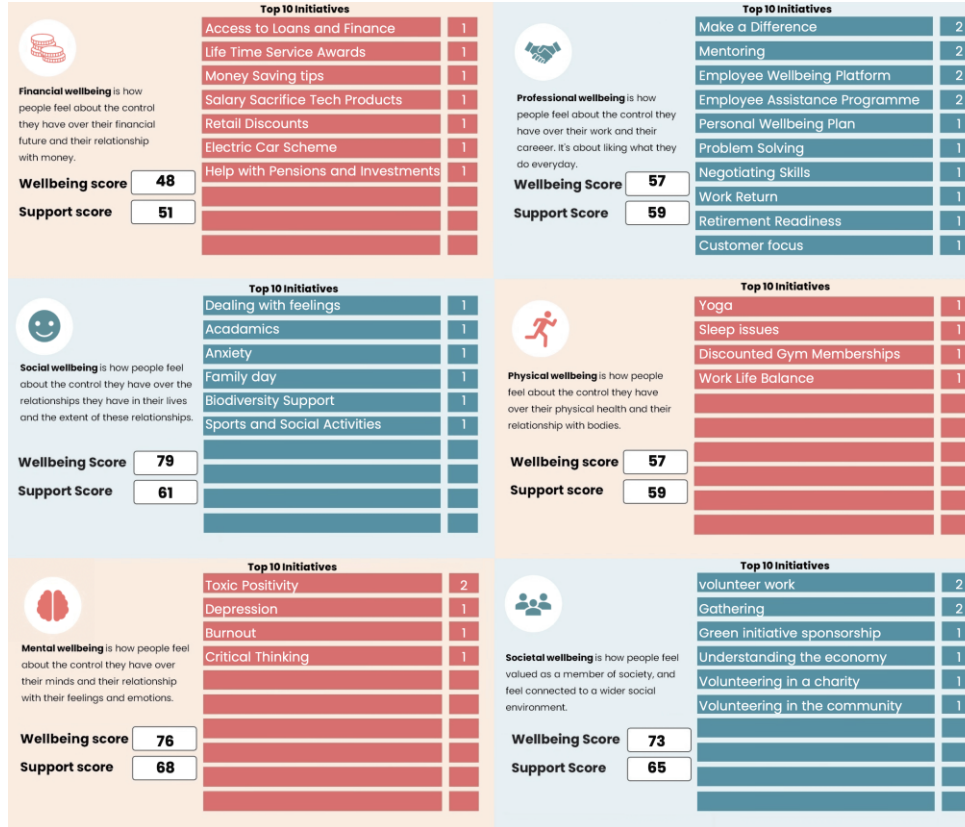
Identify those with issues & at risk



Scan me to see...



Capture their wellbeing needs



Scan me to see...



Connect them to wellbeing solutions



Mental health support



Sleep support



Financial support

Scan me to see...





If you want to **maximise** your
human energy opportunity...

Scan me to see...



...you need a **wellbeing strategy**
based on **insight** not a fruit bowl.



Thank you for your engagement...

Scan me to see...



Dr Lee Williams
Chief Wellbeing Officer
My Wellbeing Index Limited
lee@mywellbeingindex.co.uk



SSA

Stan Sherlock Associates Ltd

Financial Planning Consultants

Answering the Big Questions



Arran Pamphilon - Financial Adviser

Am I saving enough for my retirement?



What (or even how much?) do I need to sell my business for, so that I become financially independent?

Can I quit my job now?

Can I give my daughter £30k to buy a house - will I need this money later?

If we both died tomorrow how much death tax would we owe? And what can we do about it?

Can I retire early?

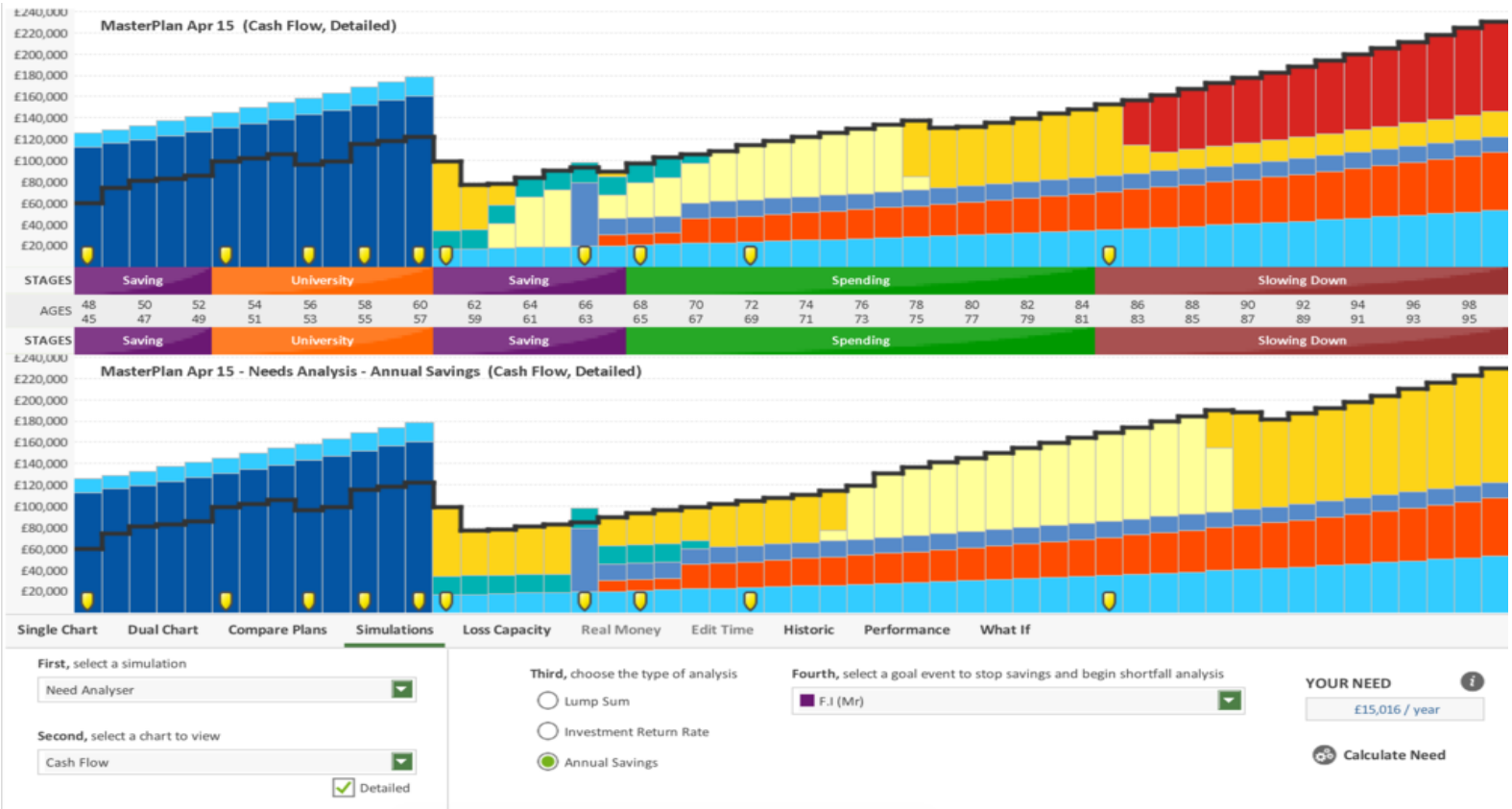
What investment return today do I need to never run out of money?

Can I work part time and then retire in five years' time?



Stan Sherlock Associates Ltd
Financial Planning Consultants

The value of investments and any income from them can fall as well as rise and you may not get back the original amount invested.



expenditure

The value of investments and any income from them can fall as well as rise and you may not get back the original amount invested.

Sustainability

Richard, Zak and Rebecca –
T Level Business students



How your business can be sustainable



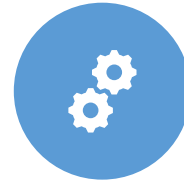
CSR (CORPORATE
SOCIAL
RESPONSIBILITIES)



ISO 14001



POLICIES AND
PROCEDURES



LEAN PRODUCTION



CIRCULAR
ECONOMY



Benefits of sustainable practices

- Stakeholder satisfaction
- Reputation boost
- Recruitment benefits
- Environmental benefits
- Higher price points – USP

Recruiting the next generation

- More young people like to see companies being environmentally friendly when looking for employment.
- Our generation will be affected the most by climate change.
- In 2021, **85%** of people have made some sort of effort to be more environmentally sustainable and look for this in companies when looking for a job.

Thank you for listening



Nick Lancaster-CAfS



Alistair Booth-Ortus Energy



Alex Grainger- Tetra Tech



Panel Session

"With sustainability requirements now being flowed down on government contracts how can members best prepare themselves to have a strong response and balance this with energy affordability?".