ENERGYCAP

Own Your Energy Data: The Foundation for Smarter Cost, Carbon & Compliance Management



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- State of the energy/water market utility rate forecast
- Philosophical approach Energy Pyramid
 Estates Management
- Utility bill UoM and line items
- Common utility bill savings opportunities
- Benefits of owning your data

Market Volatility Across EMEA = A Core Utility Risk



The cost of utilities are rising, but so is the cost of not knowing where it's going.

Across EMEA, utility pricing is no longer stable—it's volatile, fragmented, and increasingly unpredictable.

Businesses face surging energy and water costs, fueled by:

- Aging infrastructure
- Climate pressure
- Inflation-linked contracts
- Geopolitical tensions



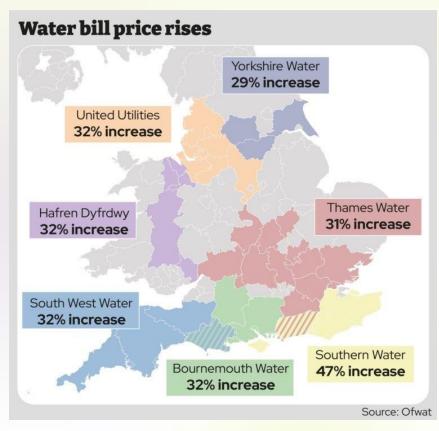
If You Can Track It, You Can Control It

Without granular visibility-by meter, site, and trendline-you're budgeting blind.

In a volatile utility market, data is your competitive edge.

Data + Proactive Review = Control & Resilience

Case Study: UK Water Market - Rising Volatility and Strategic Risk



https://inews.co.uk/news/mapped-where-water-bills-will-rise-the-most-in-2025-3509806

Water is now the **fastest-escalating utility** in the U.K. Bills rose **26%** in **April 2025** with some areas are seeing **40-47%** increases.

Rates differ by supplier & geography, making multi-site budgeting unpredictable. Inflation-linked pricing models are introducing new cost uncertainty.

Most organisations are still reactive, relying on delayed invoices and spreadsheets

Water is becoming a strategic resource, not just a utility line item. Water costs projected to **rise another 36% by 2030.**

It is tied directly to carbon reporting, ESG goals, and operational accountability.

Case Study: South Africa's Spiraling Utility Costs and Financial Strains

From 2014 to 2024, electricity tariffs rose by **190%**. With a further **12.74% hike approved for 2025**, that same bill will nearly triple in just 10 years.

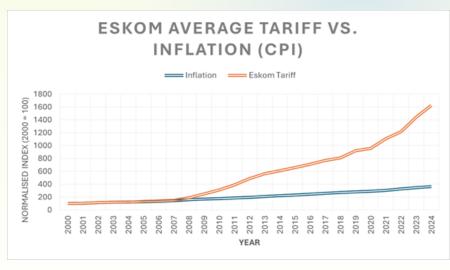
Since 2008, electricity costs have ballooned **over 600%**, against a CPI increase of just **139%**.

Water fares even worse - with tariffs climbing **2,100%** since 1996.

Frequent load shedding, outdated infrastructure, and municipal mismanagement exacerbate the crisis.

Municipalities continue raising rates, even as service reliability declines.

The impact is profound.



From 2022 to 2024, Eskom's tarriffs surged by 45%, while inflation rose 18%. And the gap is growing.

How Eskom monthly electricity bills increase: 2022 to 2027							
1 April 2022	1 April 2023 18.65% increase	1 April 2024 12,74% increase	1 April 2025 12.74% + 0.5% VAT increase	1 April 2026 5,36% + 0.5% VAT increase	1 April 2027 6,19% increase		
R1 000	R1 187	R1 338	R1 515	R1 672	R1 775		
R2 000	R2 373	R2 675	R3 030	R3 343	R3 550		
R3 000	R3 560	R4 013	R4 544	R5 015	R5 326		
R4 000	R4 746	R5 351	R6 059	R6 687	R7 101		
R5 000	R5 933	R6 688	R7 574	R8 358	R8 876		

Control Your Data to Drive Efficiency and Steer Your Strategy

Don't get stuck in a reactive cycle, responding to rising costs only after the damage is done.

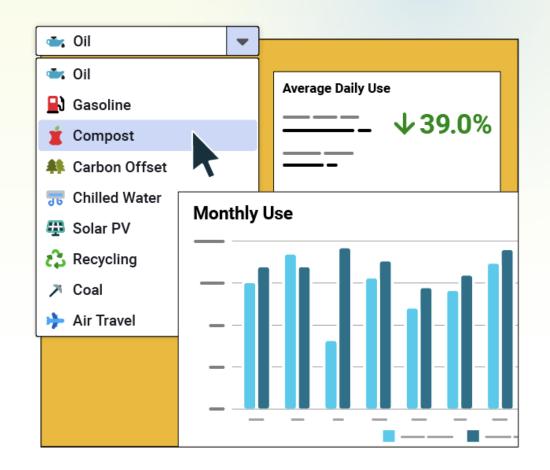
Budgets are built on outdated invoices, insights arrive too late, and opportunities to reduce waste are missed entirely.

Proactive utility management starts with control: validating bills, identifying errors, and holding suppliers accountable.

With centralised, reliable data, you can benchmark performance across sites and spot inefficiencies with confidence.

Stop reacting to costs after the fact; start managing them with intention.

The result is not just cost savings. It's confidence, clarity, and control.



What is energy management?

What is energy management?

Energy management is the proactive and systematic monitoring, control, and optimisation of energy consumption to conserve use, reduce costs, and minimize environmental impact.



Monitoring energy bills



Implementing energyefficient technologies



Optimising energy usage patterns

Why is energy management important?



Saves money!

- Energy is typically the second most expensive line item in the budget - after personnel costs
- Utility prices are volatile, gives building owner more control over costs

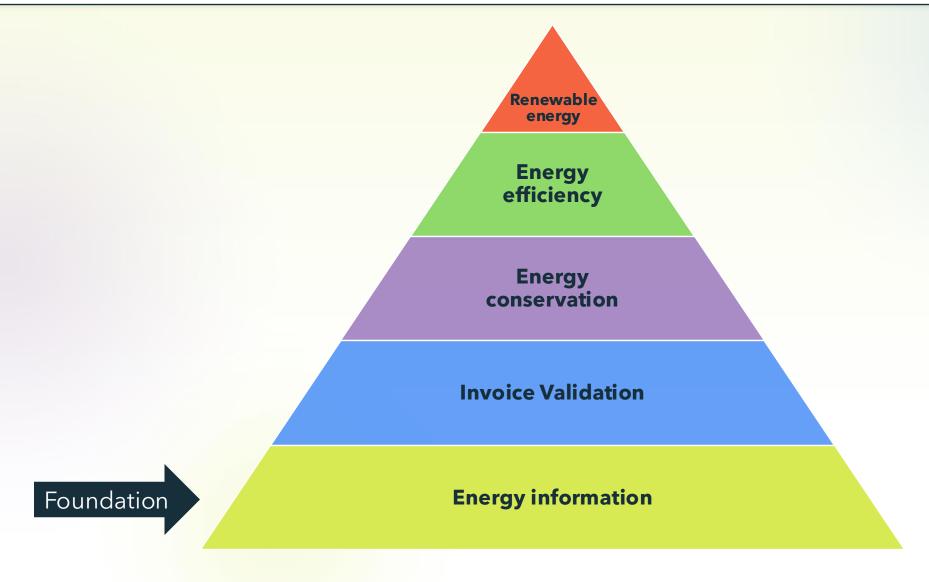
Good for the environment

Improves occupant comfort - increased productivity

Better decision-making

Hard to argue against improving efficiency

Energy Pyramid / Estates Management



The building blocks of energy efficiency



Utility Invoices – How many and which ones?



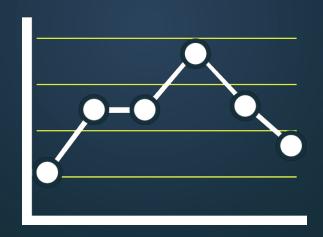
- ✓ Collect all the utility invoice you can get your hands on
- ✓ Start with the Accounting Department
- ✓ Understand how invoices are currently being processed and stored
- ✓ Acquire 3 years of historical data ask for help from vendors
- ✓ If possible, set up online access to invoices
- ✓ Quantify the number of vendors, accounts, and meters
- ✓ Prioritize Electric (60%), Gas (30%), and Water (10%)
- ✓ Pursue smart meters for more visibility into usage

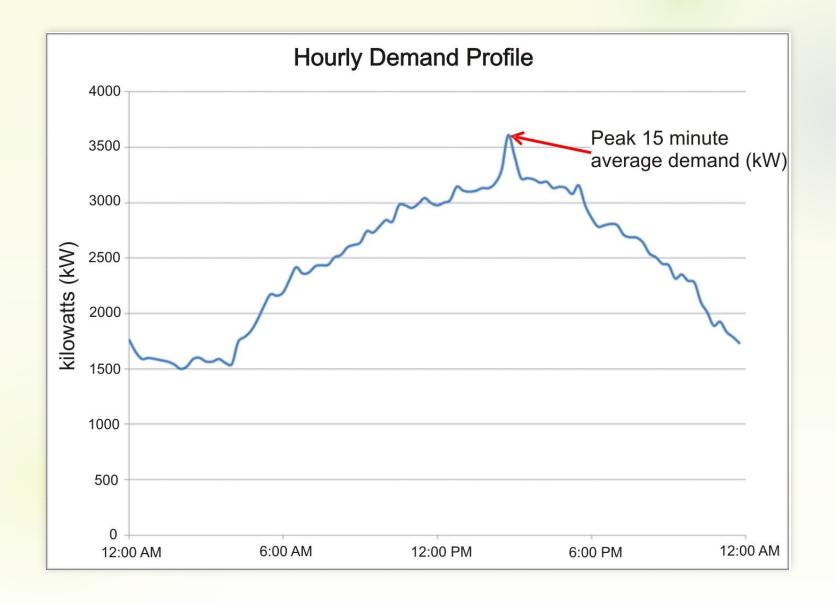
Understanding your electrical terminology



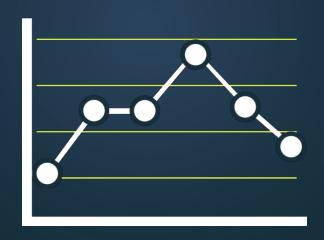
- ✓ Units of Measure (kW & kWh)
- √ (kW) A unit of power (Load), indicating how much energy is being used or produced at that given moment. 1kW = 1,000 Watts
- √ (kWh) A unit of energy, measuring the total amount of energy used or produced over a period to time. 1 kWh represents 1 kilowatt of power used continuously for one hour

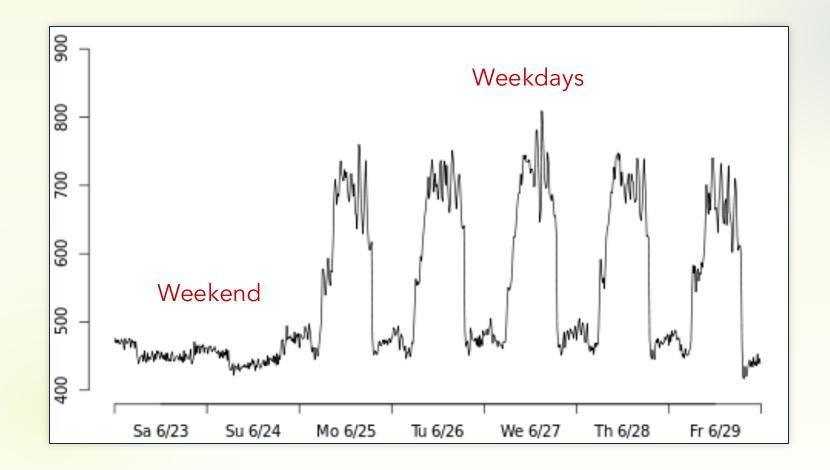
Single day load profile





Weekly load profile





Understanding your invoices

Common Lingo

Rate Tariffs

- Fixed Energy
- Standard Variable
- Low Carbon
- Electric Vehicle
- Smart Export Guarantee

Join PeakSave

Actual vs. Estimated invoices

Your account in detail

Your gas usage Gas meter number: G4A01234567891 £ 80.92 22 Jan 2024- 488.6 kWh at 9.825p per kWh 23 Feb 2024 Calculated for 43 gas units at 40 calorific value 13850 - Estimated read 22 Aug 23 14020 - Actual read 23 Nov 23 22 Jan 2024-Standing charge £ 27.59 23 Feb 2024 Calculated for 32 days at 27.72p per day 22 Jan 2024-£ 108.51 Subtotal 23 Feb 2024 Total gas costs (excl. VAT) £ 108.51 Your electricity usage Electricity meter number: 20L0123456

Electricity meter number: 20L0123456

22 Jan 2024 - 313.0 kWh at 31.16p per kWh
40688 - Estimated read 22 Jan 2024
41392 - Actual read 23 Feb 2024

22 Jan 2024 - 31 Feb 2024

23 Feb 2024 - Calculated for 32 days at 2772p per day

22 Jan 2024 - 31 Feb 2024

23 Feb 2024 - Total electricity costs (excl. VAT)

24 Feb 2024 - Total electricity costs (excl. VAT)

 22 Jan 2024 - 23 Feb 2024
 Gas and electricity costs
 £ 256.45

 Total VAT at 5%
 £ 12.81

 Total energy costs (incl. VAT)
 £ 269.26

Your total energy costs (inc. VAT and any adjustments)

 E Payments

 22 Jan 2024
 Payment
 £ 137.41 CR

 Total payments
 £ 137.41 CR

Your new balance

Your new balance on 23 Feb 2024

Debit £ 269.26

To see where your energy is from visit: britishgas.co.uk/fuelmix

You can also take a look at our energy efficiency tips and see what works best for you and your home visit: britishgas.co.uk/energyefficiencyguide

To find out how to keep your home safe visit: britishgas.co.uk/home-safety

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Did you know?

You're using **less gas** compared to this period last year.

(22 Jan - 23 Feb 2024)

488.6 kWh

(22 Jan - 23 Feb 2023)

680 kW

You're using less electricity compared to this period last year.

(22 Jan - 23 Feb 2024)

313 kWh

(22 Jan - 23 Feb 2023)

551 kWh

To find out how much energy everyday appliances use visit britishgas.co.uk/energysaving

Eskom electrical rate table - example

		Active energy charge [c/kWh]								Generation capacity charge [R/kVA/m]		Transmi	ssion						
		High demand season [Jun - Aug]			Low demand season [Sep - May]							Legacy charge [c/kWh]		network charges					
Transmission zone	Voltage	Pe	ak	Star	ndard	Off F	Peak	F	Peak	Stan	dard	Off	Peak			onal go [[R/kVA	√m]
			VAT incl		VAT incl		VAT incl		VAT incl		VAT incl		VAT incl		VAT incl		VAT incl		VAT incl
1	< 500V	684.59	787.28	171.15	196.82	114.09	131.20	284.12	326.74	159.74	183.70	114.09	131.20	22.78	26.20	R 3.49	R 4.01	R 10.63 F	R 12.22
≤ 300km	≥ 500V & < 66kV	666.92	766.96	166.73	191.74	111.15	127.82	276.78	318.30	155.62	178.96	111.15	127.82	22.20	25.53	R 8.09	R 9.30	R 10.25 F	R 11.79
≥ 200KIII	≥ 66kV & ≤ 132kV	618.91	711.75	154.72	177.93	103.15	118.62	256.86	295.39	144.42	166.08	103.15	118.62	20.60	23.69	R 6.12	R 7.04	R 9.35 F	R 10.75
	> 132kV*	577.13	663.70	144.28	165.92	96.19	110.62	239.52	275.45	134.67	154.87	96.19	110.62	19.21	22.09	R 7.02	R 8.07	R 16.34 F	R 18.79
	< 500V	691.43	795.14	172.86	198.79	115.23	132.51	286.96	330.00	161.34	185.54	115.23	132.51	22.78	26.20	R 3.49	R 4.01	R 10.74 F	R 12.35
> 300km and	≥ 500V & < 66kV	673.60	774.64	168.40	193.66	112.27	129.11	279.55	321.48	157.17	180.75	112.27	129.11	22.20	25.53	R 8.09	R 9.30	R 10.35 F	R 11.90
≤ 600km	≥ 66kV & ≤ 132kV	625.10	718.87	156.28	179.72	104.18	119.81	259.43	298.34	145.86	167.74	104.18	119.81	20.60	23.69	R 6.12	R 7.04	R 9.45 F	R 10.87
	> 132kV*	582.90	670.34	145.73	167.59	97.15	111.72	241.91	278.20	136.01	156.41	97.15	111.72	19.21	22.09	R 7.02	R 8.07	R 16.51 F	R 18.99
	< 500V	698.28	803.02	174.57	200.76	116.37	133.83	289.80	333.27	162.93	187.37	116.37	133.83	22.78	26.20	R 3.49	R 4.01	R 10.85 F	R 12.48
> 600km and	≥ 500V & < 66kV	680.27	782.31	170.07	195.58	113.37	130.38	282.32	324.67	158.73	182.54	113.37	130.38	22.20	25.53	R 8.09	R 9.30	R 10.45 F	R 12.02
≤ 900km	≥ 66kV & ≤ 132kV	631.29	725.98	157.82	181.49	105.21	120.99	262.00	301.30	147.31	169.41	105.21	120.99	20.60	23.69	R 6.12	R 7.04	R 9.54 F	R 10.97
	> 132kV*	588.67	676.97	147.17	169.25	98.11	112.83	244.31	280.96	137.36	157.96	98.11	112.83	19.21	22.09	R 7.02	R 8.07	R 16.66 F	R 19.16
	< 500V	705.13	810.90	176.28	202.72	117.52	135.15	292.64	336.54	164.53	189.21	117.52	135.15	22.78	26.20	R 3.49	R 4.01	R 10.96 F	R 12.60
. 0001	≥ 500V & < 66kV	686.94	789.98	171.74	197.50	114.49	131.66	285.09	327.85	160.28	184.32	114.49	131.66	22.20	25.53	R 8.09	R 9.30	R 10.55 F	R 12.13
> 900km	≥ 66kV & ≤ 132kV	637.48	733.10	159.37	183.28	106.25	122.19	264.56	304.24	148.75	171.06	106.25	122.19	20.60	23.69	R 6.12	R 7.04	R 9.63 F	R 11.07
	> 132kV*	594.44	683.61	148.61	170.90	99.06	113.92	246.70	283.71	138.70	159.51	99.06	113.92	19.21	22.09	R 7.02	R 8.07	R 16.83 F	R 19.35

^{* 132} kV or Transmission connected

Distribution network charges							
Voltage	Network capacity charge [R/kVA/m]		cha	demand arge VA/m]	Urban lov subsidy [R/kV	charge	
		VAT incl		VAT incl		VAT incl	
< 500V	R 39.22	R 45.10	R 48.41	R 55.67	R 0.00	R 0.00	
≥ 500V & < 66kV	R 35.98	R 41.38	R 24.17	R 27.80	R 0.00	R 0.00	
≥ 66kV & ≤ 132kV	R 13.02	R 14.97	R 9.53	R 10.96	R 10.20	R 11.73	
> 132kV*	R 0.00	R 0.00	R 0.00	R 0.00	R 10.20	R 11.73	

^{* 132} kV or Transmission connected

Customer categories	Service [R/POI		Administration charg [R/POD/day]				
		VAT incl		VAT incl			
≤ 100 kVA	R 13.74	R 15.80	R 0.73	R 0.84			
> 100 kVA & ≤ 500 kVA	R 64.28	R 73.92	R 12.40	R 14.26			
> 500 kVA & ≤ 1 MVA	R 198.52	R 228.30	R 19.37	R 22.28			
> 1 MVA	R 198.52	R 228.30	R 19.37	R 22.28			
Key customers	R 1,118.46	R 1,286.23	R 19.37	R 22.28			

Voltage	Ancillary service charg [c/kWh]							
		VAT incl						
< 500V	0.41	0.47						
≥ 500V & < 66kV	0.39	0.45						
≥ 66kV & ≤ 132kV	0.36	0.41						
> 132kV*	0.34	0.39						

^{* 132} kV or Transmission connected

Reactive energy charge [c/kVArh]						
High season	Low season					
VAT incl	VAT incl					
31.71 36.47	0.00 0.00					

Additional electrical bill terminology

Power Factor

The ratio of real power (kW) to apparent power (kVA). It essentially measures how effectively electrical power is used and converted into useful work. A power factor of 1.0 indicates perfect efficiency, while a value less than 1.0 indicates that extra power is required to achieve the desired task.

Load Factor

A measure of how consistently electrical power is used over a period, comparing average demand to peak demand. It's a ratio, typically expressed as a percentage, of total energy consumed to the potential energy that could have been used at peak demand. A higher load factor indicates more consistent usage and generally translates to lower overall energy costs.

Electric meter billing multiplier



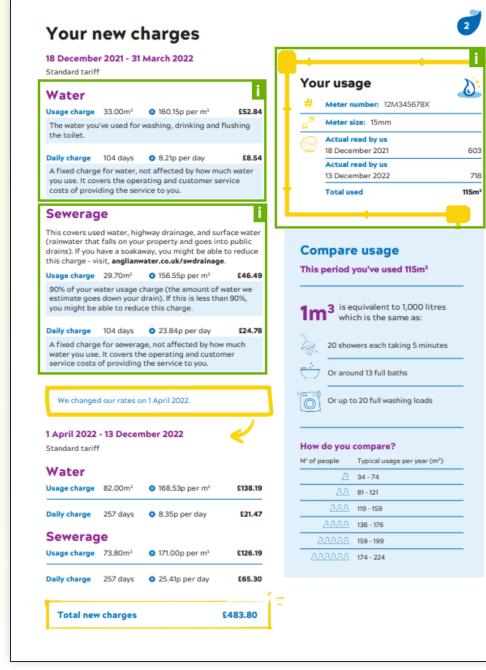
Understanding your water/ sewer invoice



- ✓ There are no sewer meters for water exiting the building only a water meter for incoming water
- ✓ Are you being charged for unnecessary sewer services?
- ✓ Usually, sewer costs represent approximately 50% of total bill

Understanding your water/ sewer invoice





What happens next?



The top three types of billing errors haven't changed:

- ✓ Account Ownership the building changed ownership, but the utility account wasn't updated to the new owner. You might be paying for someone else's energy!
- ✓ Meter Multiplier the wrong multiplier or unit is being used by the utility's billing computer, so you are getting overcharged every month, perhaps for years.
- ✓ Taxes and Fees you have an exempt account (non-profit, government, etc.) but the utility provider may be assessing taxes and fees in error.

Finally, field verify the meters, identify the building/space served by the meter, and start learning about the buildings with high consumption.

Establish relationship with vendors



- ✓ Invite them to your office
- ✓ Ask questions about the things you don't understand about the bills
- ✓ Ask about rebate and incentive programs learn the annual financial cycle
- ✓ Complete a rate tariff analysis
- ✓ If you're receiving a lot of estimated bills or re-billings try to learn about why

Where do I put all the data?





Expert-driven Utility Management Software

An integrated platform brings everything under one roof:

- **Invoice validation** and utility bureau services ensure billing accuracy and identify overcharges before they impact your budget.
- Energy and interval data monitoring empowers teams to pinpoint anomalies, optimise usage, and uncover savings.
- Automated ESG and Net Zero reporting simplifies compliance, aligns with regulatory frameworks, and reduces manual effort.

With one central system, your organisation benefits from:

- Audit flags and alerts to catch issues early
- Shared access across teams for aligned action and visibility
- Reliable, systematised workflows that reduce human error
- Automated data gathering that streamlines reporting, saving time
- A unified view of all energy and utility data to support smarter decisions

This isn't just a software solution—it's a smarter way to manage energy, stay compliant, and achieve sustainability goals across your EMEA footprint.

Turning Utility Data into Strategic Advantage

Sustainability isn't a side initiative—it's central to operational resilience and financial leadership.

Ensure Compliance Across Jurisdictions

 Automate and streamline reporting for SECR, ESOS, TCFD, and prepare for CSRD – reducing audit risk and ensuring regulatory readiness.

Control Utility Spend with Data

• Centralise invoice and consumption data to identify billing errors, monitor usage, and unlock cost savings across your portfolio.

Support Sustainability with ROI-Driven Insights

 Inform investment decisions in efficiency and renewables with validated performance data – aligning sustainability with financial outcomes.

Meet Investor & Stakeholder Expectations

 Align with global frameworks to reinforce your ESG position and financial transparency.

Achieve Compliance, Cut Costs & Advance Net Zero with One Platform

UK organisations face growing pressure to report, reduce, and realign their utility usage - not just for compliance, but to stay competitive and sustainable. EnergyCAP simplifies your journey with:

Compliance Reporting Made Easy

• Supported through centralised data, automated reporting, and audit readiness.

Operational Efficiency Through Visibility

- Identify inefficiencies through detailed audits and continuous utility monitoring
- Target cost-saving projects and behavioural change initiatives
- Systematic tracking of utility consumption across all sites

Environmental Progress You Can Prove

- Set and track Net Zero goals with confidence
- Benchmark progress across your estate
- Share clear, defensible reports with stakeholders

From compliance to carbon - EnergyCAP gives you the insight and tools to lead with data.

Drive Performance, Not Just Promises

Sustainability initiatives only succeed when they deliver measurable operational and financial value. EnergyCAP helps organisations align ESG goals with efficiency and cost control—without the fluff.

ESG & Energy Performance, Grounded in ROI

- Ensure ESG and Net Zero reporting aligns with real-world consumption and savings
- Benchmark energy performance to support capital planning and compliance
- Track internal KPIs that reflect both environmental impact and operational efficiency

Extend Asset Life & Reduce Lifecycle Costs

- Monitor and optimise building and equipment performance
- Identify underperforming sites or systems
- Support long-term efficiency planning through reliable data

Energy performance is about outcomes—lower costs, smarter operations, and future-ready infrastructure.

POLL

Are you interested in learning more?



Book a time with Jared! 👇



Select one:

- Yes, I'll book a time with the QR code.
- Yes, send me a meeting link!
- Not at this time, thanks.

Questions