



Practical Ways to Deliver Energy Efficiency & Significant Cost Reduction .

Mark Dolling | Strategic Development Director

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An aerial photograph of a dense green forest with a winding asphalt road on the right side.

UNLEASHING
NET ZERO

Introduction

Mark Dolling

Strategic Development Director

Mark is the Strategic Development Director at leading sustainability business eEnergy.

He has 30 years experience in the planning, design, delivery and support of education estates in the UK, working in senior roles both client-side in local authorities and in the private sector.

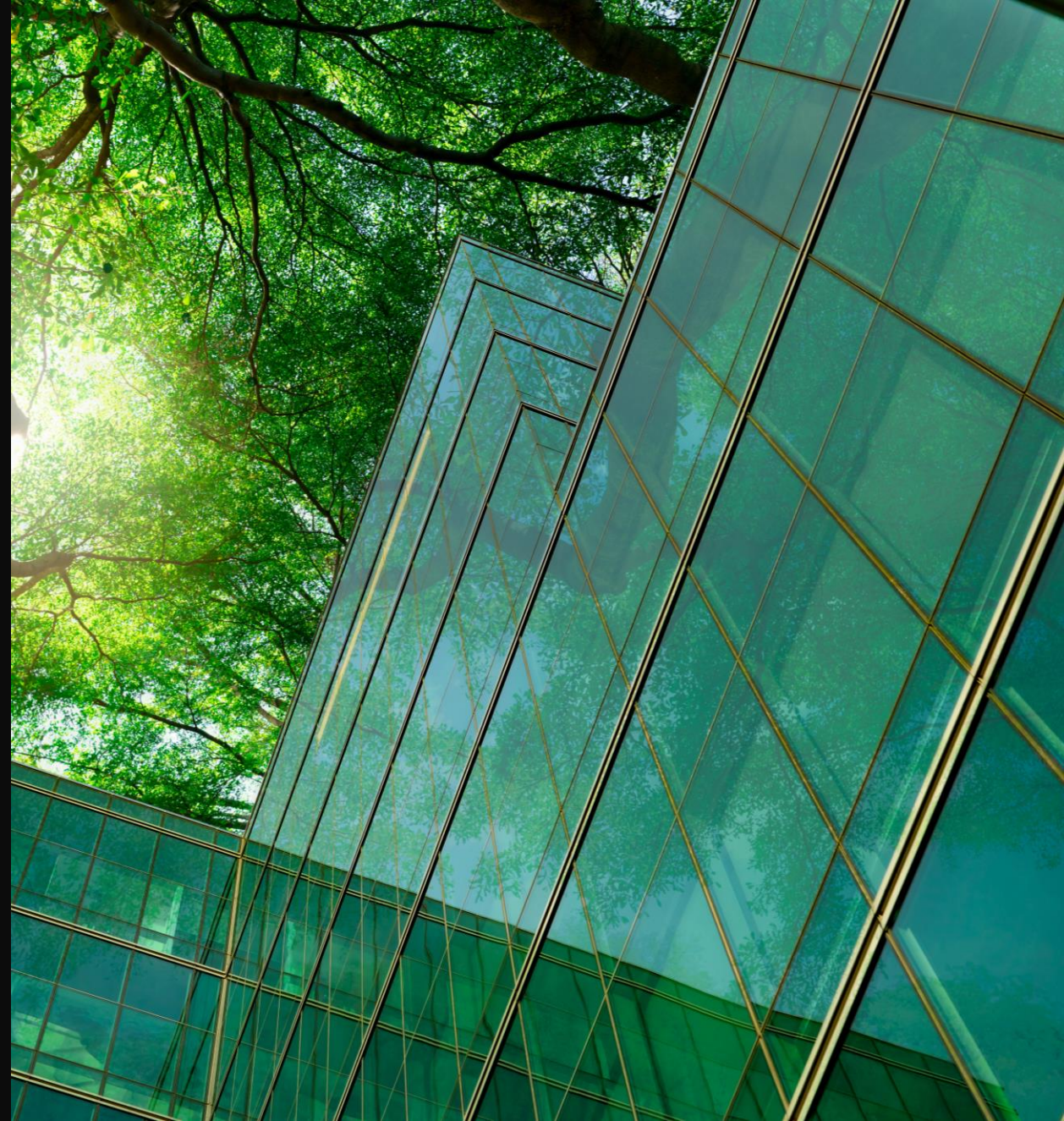
He is also a Trustee of a successful and growing Multi-Academy Trust of 16 schools.

In recent years Mark has focused on the development and delivery of decarbonisation strategies and initiatives to significantly reduce energy costs and carbon consumption across the UK education estate.



Agenda.

1. Education and energy landscape
2. Why is energy efficiency important?
3. A practical approach to energy efficiency
4. Benefits to you and your Trust/School
5. A case study example
6. Next steps



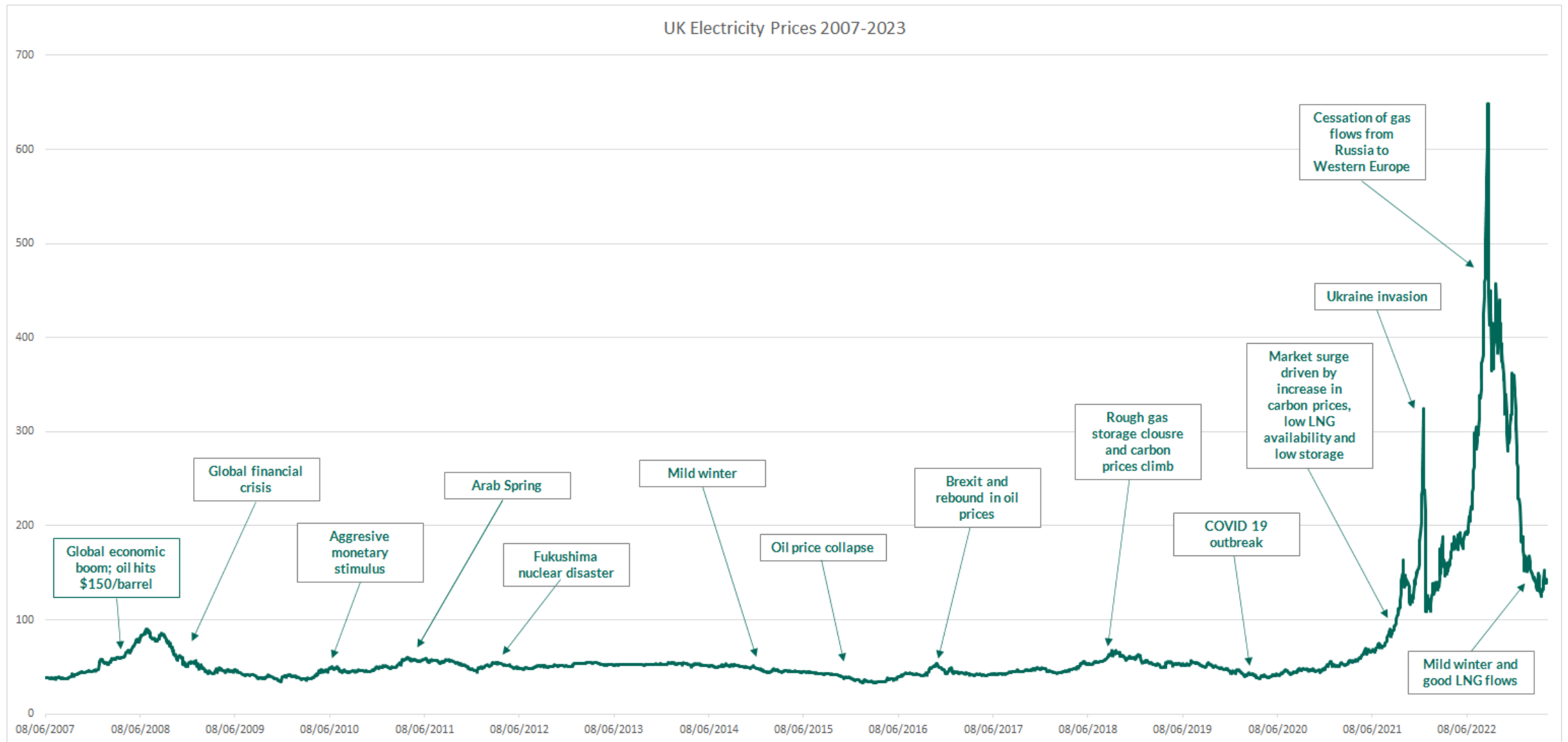
Purpose.

At the end of this session, we hope you:

1. Have a better understanding of the drivers and imperative for energy efficiency and decarbonisation.
2. Understand the options in terms of funding your projects to deliver recurring revenue savings
3. Take away some practical steps you can make to realise reductions in your energy waste straight away.
4. Link this back to your overarching strategy.
5. Gain insights into how eEnergy are helping MATs and schools across the UK and how we may be able to help you.



Volatile and unpredictable Energy Market.



**A volatile
energy market**
with an uncertain future.

The fast way to offset this...

**Reduce
+
Generate.**

Why is this important?

70% children are worried about the world they will inherit.

60% believe climate change and inequality are affecting their generation's mental health in the UK.

Source: Save the Children Charity – survey of 3000 children in run up to COP27

Our UK schools waste

£3000⁺m

in energy every year.

Up to
50 % of energy
consumption
occurs when
schools are **closed.**

Importance for schools.



**Local and
National policies**



**Funding and
condition of
school estate**



**Schools as the
catalyst for
carbon net zero
transition**



**Engaging and
empowering school
communities**

DfE National Climate Education Plan.



Carbon Literacy Training for all sustainability leads in schools by 2025



All new school buildings to be **net zero carbon** in operation



All schools required to have a **Climate Action Plan** by 2025

Funding your decarbonisation projects.

The DfE has recently provided the following clarification on funding of decarbonisation projects for education

LA Maintained Schools- IFRS16 Maintained Schools Finance Lease Class Consent 2024

Consent for leases related to LED lighting where the product has been sourced from a recommended route on our Find a framework website

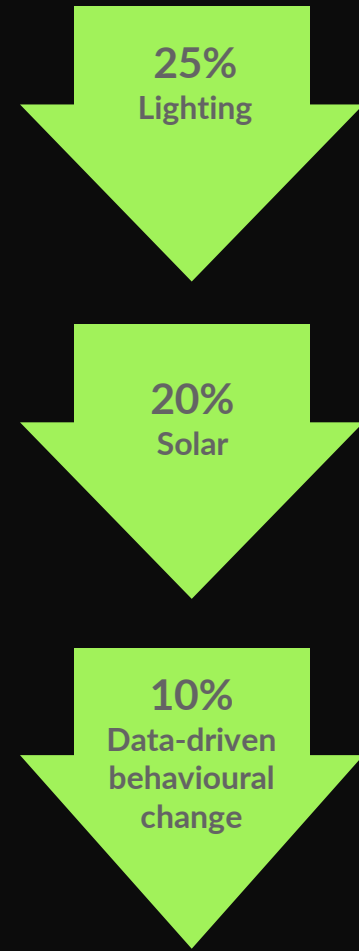
Academy Trust Handbook 2023

Operating leases are permitted under the current handbook.

College Financial Handbook 2024

Colleges do not require DfE's prior approval for entering into either finance or operating leases

eEnergy offers a **DfE compliant contract** providing off-balance sheet funding for all your decarbonisation projects



**Without the need for capital,
or grants.**

The Net Zero energy services provider.

Saving Costs with Uncompromised Energy Solutions.



Reduce.

Eliminate energy waste and switch to efficient LED lighting and controls, all while avoiding operational disruption.



Generate.

Reduce grid reliance and generate clean energy through solar PV design, all while minimising operational disruption.



Charge.

Navigate the complexities of EV charging infrastructure and management, all executed with minimal operational disruption.

Finance.



Accelerate Net Zero ambitions without financial and logistical barriers with compliant Public Sector zero-capital upfront, off-balance sheet funding solution.

 NatWest

Data.



Connected IoT services enabling scalable design, optimisation, management and reporting across portfolio energy infrastructures; driving sustainability and operational efficiencies.

Digital Energy Services

£40m Net Zero Funding.

Simple, cost effective, compliant funding for your decarbonisation projects

eEnergy has agreed £40 million of project funding with NatWest to finance energy efficiency and onsite generation technologies for public sector organisations.

[Find out more](#)



Backed by NatWest



Designed for Education



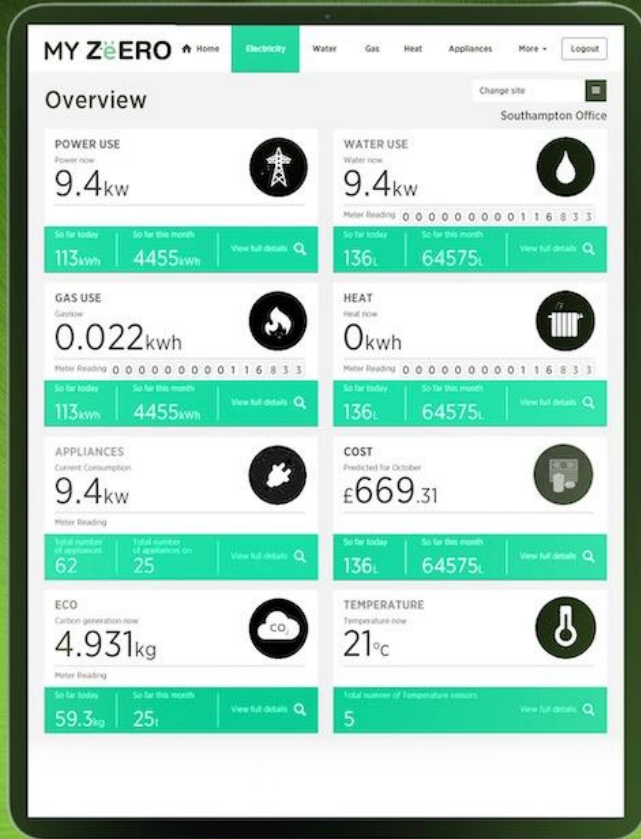
DfE compliant contract



Off-balance sheet



No upfront capital required-
realise savings from day one



We monitor your usage in real time,

ERADICATING WASTE.

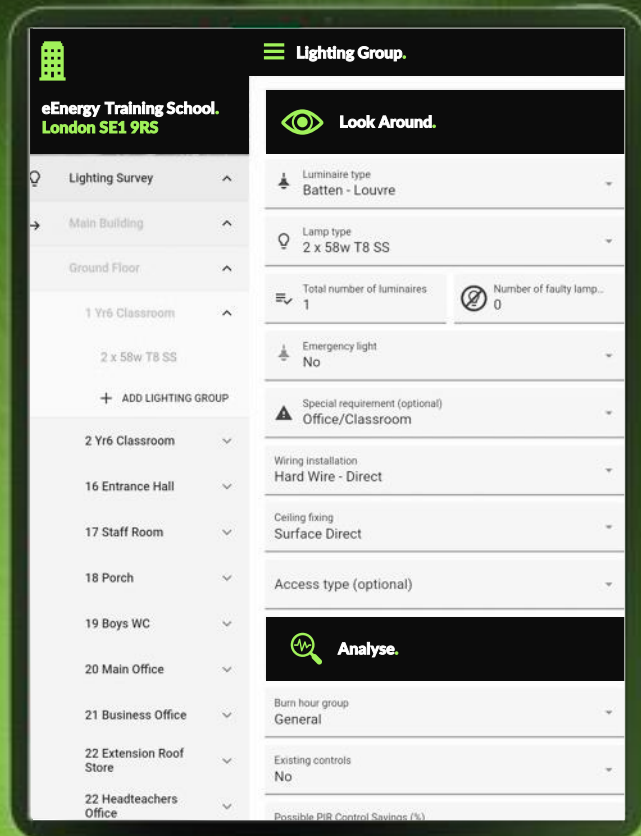
Up to

10%

savings through behavioural change.



Data.



We switch you to LED.

**REDUCE
ENERGY COSTS.**

By up to

25%

reduction in total consumption achievable
with upgrading to LED & controls.

 Reduce.

An example of real savings (1500 pupils).

Survey results

1,238

Luminaries

2,475

Weighted
avg. burn hrs

116.2

Total
circuit kW

Financial summary of your LaaS proposal

First year

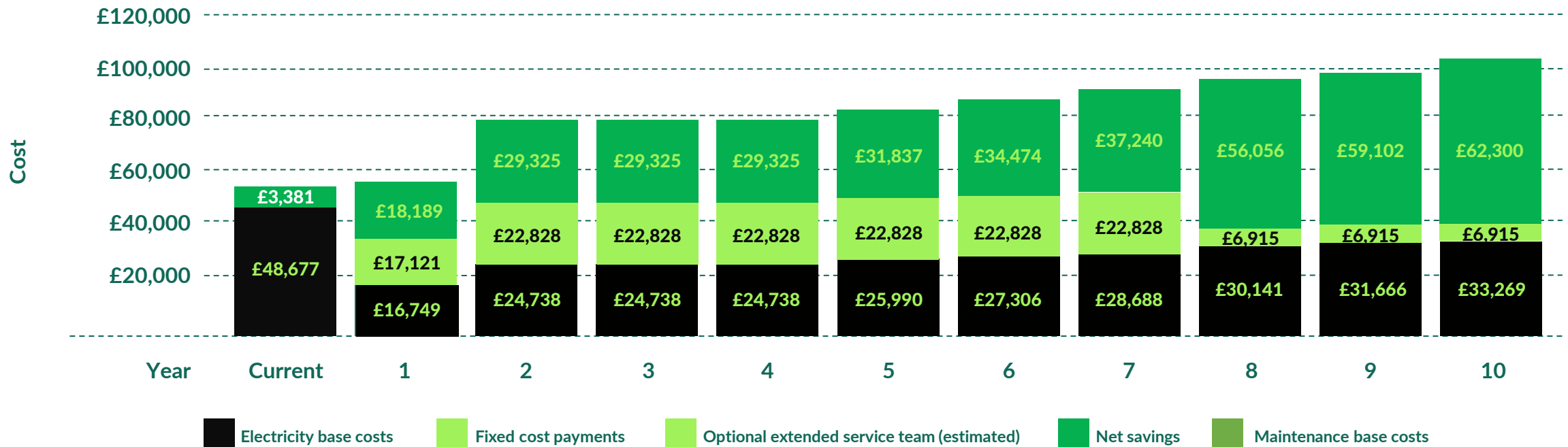
£35,310 gross saving
£17,121 1st yr payment
£18,189 1st yr net saving

7-year

£209,715 net savings
39% cost savings
308 tCO₂e carbon savings

10-year

£387,715 net savings
47% cost savings
440 tCO₂e Carbon savings





We deploy
**ONSITE SOLAR
GENERATION.**

Reducing energy costs by up to

20%



Generate.

An example of real savings (1500 pupils).

Financial summary of your Solar PV proposal

First year net electricity costs

£332,592 current electricity costs
 £73,481 solar generation savings
 £1,598 export income
£257,513 net electricity costs

First year

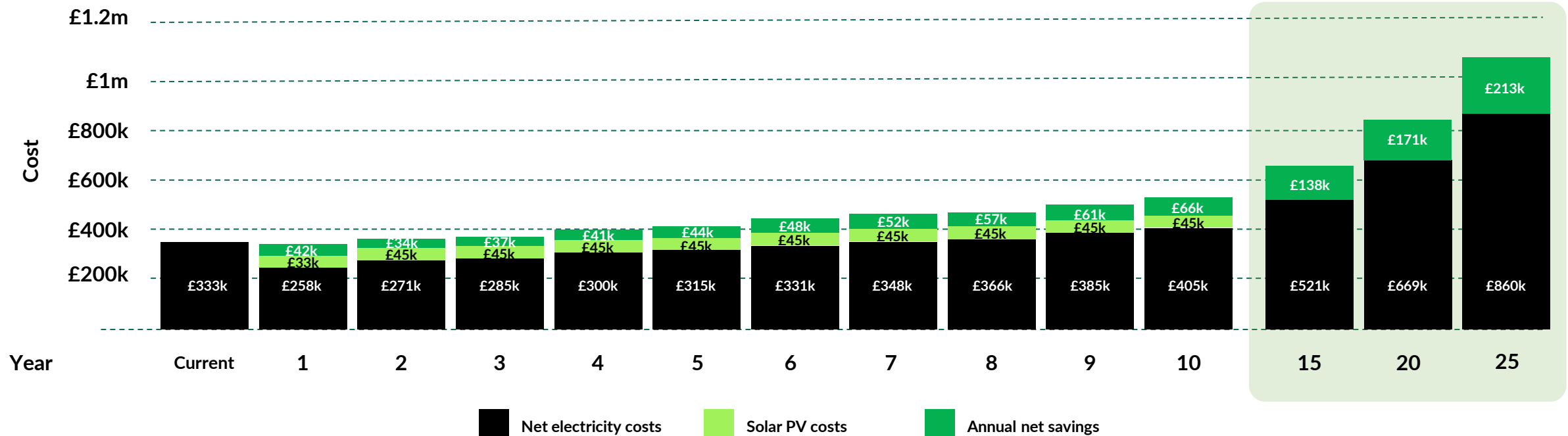
£75,079 first year gross savings
 £33,407 – payments for solar pv
£41,672 first year net savings

10-year

£481,211 net savings
 12% cost savings
 567 tCO2e carbon savings

25-year

£2,876,111 net savings
 18% cost savings
 1,366 tCO2e carbon savings





We deploy best in class EV CHARGING FOR FLEET, STAFF AND VISITORS.

Improving infrastructure and
generating revenue.



Inspiring Futures Through Learning.

On the path to Net Zero.



Empowering Inspiring Futures Through Learning:

A Dynamic Partnership with eEnergy to reduce energy bills, cut carbon consumption and engage the school community.

1

Developing a **Net Zero roadmap** and supporting a bid for funding.

2

Deploying **Net Zero technologies** to reduce energy consumption, verify savings and drive positive behavioural change.

3

The **positive impact** on running costs, carbon consumption and pupil engagement.

Deploying Net Zero Technologies for IFtL.



LED lighting deployed

11 schools

3964 lights fitted

59% reduction in lighting energy usage



MY ZeERO installed

Real time insights on energy usage and wastage

10% reduction in energy use through behavioural change



Future rooftop solar installation

20% reduction in energy costs

Increased energy resilience and price certainty

Lower carbon emissions

Lighting environmental and cost impact for IFtL.



59%

Reduction in
energy usage



2,604

Trees equivalent
carbon reduction

TCO₂e

56.7

Carbon reduction
per year

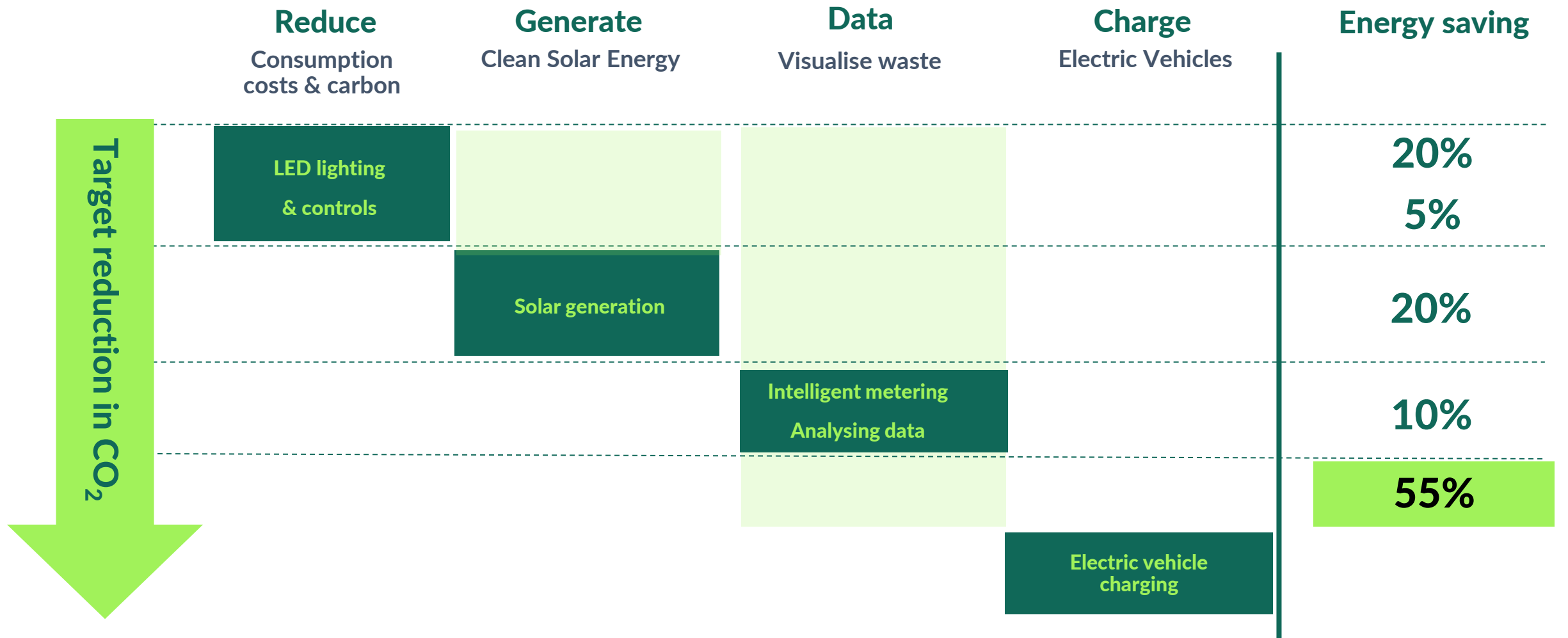


£618k

10 Year
Net Saving

Wrap Up.

Reduce energy costs over 50%.



Compliance.

Our contract has been specifically **designed for our state funded educational** clients to be a fully compliant operating lease in accordance with the **Academies Financial Handbook** and the Leasing Guidance for Schools.

Procurement.

Everything FM is an OJEU compliant procurement framework meaning schools can direct award to the framework's existing supply chain. This means that once a school has identified a supplier, the framework can benchmark the costs to ensure best value.

The Trust completes a “Framework Access Agreement” which compliantly enables the Trust to contract with eEnergy for the installation of the energy efficiency measures.

1,000+
Projects completed.

**DfE Compliant, with
verified energy savings.**

840
Schools.

500,000+
LED lights installed.

£100^{m+} 10-year net savings.

Shrink your energy costs
using our money not yours.

Next steps.



Meet

Reach out to arrange a meeting to understand your challenges.



Survey

We can undertake surveys and modelling for your site at no cost.



Proposal

We'll set out in detail the energy savings, costs savings and carbon savings for your consideration.

Contact: mark.dolling@eenergy.com

Questions.

eEnergy

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NET ZERO

