







Project Summary

Total Solar PV System Size

429.75kW

Total Annual Carbon Reduction (Tons P/A)

73.55ct

Total Annual Electricity Savings (Year 1)

£104,961

380,290
Total kWh
P/A Yield

£0.304
Average Cost
per kWh

Average Payback Period (years):

4.38
(inc. Maintenance)
Electricity Costs

* Please note these ROI savings are based on a desktop survey excluding provisional sums

and design costs and are subject to change

upon further site survey.

Total Project Cost (inc. Provisional Sums) £704,898.82

This proposal is calculated based on a desktop study and as your solar PV partner ESSG will complete a detailed site survey, project proposal and cost.

Energy & Carbon Reduction

Total Number of Panels Installed 954

Panel Warranty 20 years

20-year Savings (Incl System Cost) £2,809,829





Cirencester Hospital

Details
ADDRESS:

Cirencester Hospital

Tetbury Road

Cirencester

GL7 1UY

Project Name: GHC - Cirencester Quotation No: EES-00001991

Date: 17th May 2024

Design Phase Costs				
Product	Description	Qty Metric		Price £
Concept Design	Concept desktop design for your site with satellite imagery and indicative yield data report	Lot	Fre	e of Charge
Outline Design	Complete site inspection, outline design and feasibility report. Design cable plans, SLDs and electrical layout	Lot	£	3,144.75
Construction Design	Structural Assessment & Report. Construction design, cost certainty. DNO document preparation.	Lot	£	3,669.75
Sub-Total			£	6,814.50

Cost Breakdown				
Product	Description	Qty Metric		Price £
Materials	Modules, Inverters, Optimisers, Synergy Units, Energy Meter, FFG, GSM Module & Antenna	Lot	£	65,734.20
Consumables	Mounting System, Ancillaries, MC4 Connectors, Cables & Containment	Lot	£	28,136.39
Installation	Travel and Accommodation, Labour & Commissioning	Lot	£	55,070.90
Prelims	Project Management, Site Management, As-Built Drawings, Training & O&M.	Lot	£	6,851.92
As Built Design	Provides construction information, complete as built design pack.	Lot	£	1,990.15
Sub-Total			£	157,783.57

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Price per kWp (£)	£	1,238.98

Provisional Sums				
Product	Description	Quantity		Price £
Site Prelims	Skips, Storage Container & Site Welfare	Lot	£	4,000.00
Installation Prelims	Lifting Equipment, Scaffolding, Permanent Edge Protection and/or Temporary Edge Protection	Lot	£	18,500.00
Distribution Network Operator (DNO)	Support with application	Lot	£	2,000.00
Connection to existing fire detection system	Integration from the Fire Fighter Gateway to the fire detection system	Lot	£	2,000.00
RAID	This sum included for likely cost associated with Risks, Assumptions, Issues & Dependencies (RAID)	Lot	£	8,000.00
Sub-Total			£	34,500.00

Total Indicative Cost ((Ex VAT) £	199,098.06

Notwithstanding any other provision of this document, this indicative proposal is provided for information and planning purposes only, is non-binding and does not constitute an offer capable of acceptance. Energy Efficient Solutions Group will be pleased to provide a firm price proposal upon request, subject to order of a full site and roof condition survey, and our internal approval requirements.





North Cotswold Hospital

Details
ADDRESS:

North Cotswold Hospital

Stow Road

Moreton-in-Marsh

GL56 0DS

Project Name: GHC - North Cotswold

Quotation No: EES-00001989

Date: 17th May 2024

Design Phase Costs				
Product	Description	Qty Metric		Price £
Concept Design	Concept desktop design for your site with satellite imagery and indicative yield data report	Lot	Free	e of Charge
Outline Design	Complete site inspection, outline design and feasibility report. Design cable plans, SLDs and electrical layout	Lot	£	3,144.75
Construction Design	Structural Assessment & Report. Construction design, cost certainty. DNO document preparation.	Lot	£	3,669.75
Sub-Total			£	6,814.50

Cost Breakdown				
Product	Description	Qty Metric		Price £
Materials	Modules, Inverters, Optimisers, Synergy Units, Energy Meter, FFG, GSM Module & Antenna	Lot	£	53,328.01
Consumables	Mounting System, Ancillaries, MC4 Connectors, Cables & Containment	Lot	£	25,491.38
Installation	Travel and Accommodation, Labour & Commissioning	Lot	£	55,500.87
Prelims	Project Management, Site Management, As-Built Drawings, Training & O&M.	Lot	£	6,851.92
As Built Design	Provides construction information, complete as built design pack.	Lot	£	1,990.15
Sub-Total			£	143,162.33

Price per kWp (£)	£	1,112.37

Provisional Sums				
Product	Description	Quantity		Price £
Site Prelims	Skips, Storage Container & Site Welfare	Lot	£	4,000.00
Installation Prelims	Lifting Equipment, Scaffolding, Permanent Edge Protection and/or Temporary Edge Protection	Lot	£	27,000.00
Distribution Network Operator (DNO)	Support with application	Lot	£	2,000.00
Connection to existing fire detection system	Integration from the Fire Fighter Gateway to the fire detection system	Lot	£	2,000.00
RAID	This sum included for likely cost associated with Risks, Assumptions, Issues & Dependencies (RAID)	Lot	£	7,000.00
Sub-Total			£	42,000.00

Total Indicative Cost (Ex VAT) £	191,976.83
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Stroud Hospital Campus

Details

ADDRESS:

Stroud General Hospital Trinity Road

Stroud

GL5 2HY

Project Name: GHC - Stroud Hospital Campus

Quotation No: EES-00001990

Date: 17th May 2024

Design Phase Costs				
Product	Description	Qty Metric		Price £
Concept Design	Concept desktop design for your site with satellite imagery and indicative yield data report	Lot	Fre	e of Charge
Outline Design	Complete site inspection, outline design and feasibility report. Design cable plans, SLDs and electrical layout	Lot	£	3,144.75
Construction Design	Structural Assessment & Report. Construction design, cost certainty. DNO document preparation.	Lot	£	3,669.75
Sub-Total			£	6,814.50

Cost Breakdown				
Product	Description	Qty Metric		Price £
Materials	Modules, Inverters, Optimisers, Synergy Units, Energy Meter, FFG, GSM Module & Antenna	Lot	£	28,260.52
Consumables	Mounting System, Ancillaries, MC4 Connectors, Cables & Containment	Lot	£	15,034.09
Installation	Travel and Accommodation, Labour & Commissioning	Lot	£	33,388.72
Prelims	Project Management, Site Management, As-Built Drawings, Training & O&M.	Lot	£	4,747.62
As Built Design	Provides construction information, complete as built design pack.	Lot	£	1,990.15
Sub-Total			£	83,421.10

Price per kWp (£)	£	1,324.14

Provisional Sums				
Product	Description	Quantity		Price £
Site Prelims	Skips, Storage Container & Site Welfare	Lot	£	3,500.00
Installation Prelims	Lifting Equipment, Scaffolding, Permanent Edge Protection and/or Temporary Edge Protection	Lot	£	8,000.00
Distribution Network Operator (DNO)	Support with application	Lot	£	2,000.00
Connection to existing fire detection system	Integration from the Fire Fighter Gateway to the fire detection system	Lot	£	2,000.00
RAID	This sum included for likely cost associated with Risks, Assumptions, Issues & Dependencies (RAID)	Lot	£	4,000.00
Sub-Total			£	19,500.00

Total indicative Cost (Ex VAI) £ 109,735.6	Total Indicative Cost (Ex VAT)	£	109,735.60
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Tewkesbury Hospital

Details

GL20 5GJ

ADDRESS: Tewkesbury Hospital

Barton Road
Gloucestershire

Project Name: GHC - Tewkesbury Quotation No: EES-00001993

Date: 17th May 2024

Design Phase Costs				
Product	Description	Qty Metric		Price £
Concept Design	Concept desktop design for your site with satellite imagery and indicative yield data report	Lot	Fre	e of Charge
Outline Design	Complete site inspection, outline design and feasibility report. Design cable plans, SLDs and electrical layout	Lot	£	3,144.75
Construction Design	Structural Assessment & Report. Construction design, cost certainty. DNO document preparation.	Lot	£	3,669.75
Sub-Total			£	6,814.50

Cost Breakdown				
Product	Description	Qty Metric		Price £
Materials	Modules, Inverters, Optimisers, Synergy Units, Energy Meter, FFG, GSM Module & Antenna	Lot	£	27,563.41
Consumables	Mounting System, Ancillaries, MC4 Connectors, Cables & Containment	Lot	£	12,306.66
Installation	Labour & Commissioning including Travel and Accommodation	Lot	£	28,257.70
Prelims	Project Management, Site Management, As-Built Drawings, Training & O&M.	Lot	£	2,643.31
As Built Design	Provides construction information, complete as built design pack.	Lot	£	1,990.15
Sub-Total			£	72,761.23

Price per KWp (\mathfrak{L}) \mathfrak{L} 1,215.73	Price per kWp (£)	£	1,215.73
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Provisional Sums				
Product	Description	Quantity		Price £
Site Prelims	Skips, Storage Container & Site Welfare	Lot	£	3,000.00
Installation Prelims	Lifting Equipment, Scaffolding, Permanent Edge Protection and/or Temporary Edge Protection	Lot	£	10,500.00
Distribution Network Operator (DNO)	Support with application	Lot	£	2,000.00
Connection to existing fire detection system	Integration from the Fire Fighter Gateway to the fire detection system	Lot	£	2,000.00
RAID	This sum included for likely cost associated with Risks, Assumptions, Issues & Dependencies (RAID)	Lot	£	3,500.00
Sub-Total			£	21,000.00

Total Indicative Cost (Ex VAT	£	100,575.73

Notwithstanding any other provision of this document, this indicative proposal is provided for information and planning purposes only, is non-binding and does not constitute an offer capable of acceptance.

Energy Efficient Solutions Group will be pleased to provide a firm price proposal upon request, subject to order of a full site and roof condition survey, and our internal approval requirements.





Vale Hospital

Details

ADDRESS:

GL11 4BA

Vale Community Hospital Lister Road Dursley Project Name: GHC - Vale Hospital Quotation No: EES-00001992

Date: 17th May 2024

Design Phase Costs				
Product	Description	Qty Metric		Price £
Concept Design	Concept desktop design for your site with satellite imagery and indicative yield data report	Lot	Fre	e of Charge
Outline Design	Complete site inspection, outline design and feasibility report. Design cable plans, SLDs and electrical layout	Lot	£	3,144.75
Construction Design	Structural Assessment & Report. Construction design, cost certainty. DNO document preparation.	Lot	£	3,669.75
Sub-Total			£	6,814.50

Cost Breakdown				
Product	Description	Qty Metric		Price £
Materials	Modules, Inverters, Optimisers, Synergy Units, Energy Meter, FFG, GSM Module & Antenna	Lot	£	23,567.77
Consumables	Mounting System, Ancillaries, MC4 Connectors, Cables & Containment	Lot	£	12,822.29
Installation	Labour & Commissioning including Travel and Accommodation	Lot	£	24,674.58
Prelims	Project Management, Site Management, As-Built Drawings, Training & O&M.	Lot	£	2,643.31
As Built Design	Provides construction information, complete as built design pack.	Lot	£	1,990.15
Sub-Total			£	65,698.10

Price per kWp (£)	£	1,292.00
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Provisional Sums				
Product	Description	Quantity		Price £
Site Prelims	Skips, Storage Container & Site Welfare	Lot	£	3,000.00
Installation Prelims	Lifting Equipment, Scaffolding, Permanent Edge Protection and/or Temporary Edge Protection	Lot	£	20,500.00
Distribution Network Operator (DNO)	Support with application	Lot	£	2,000.00
Connection to existing fire detection system	Integration from the Fire Fighter Gateway to the fire detection system	Lot	£	2,000.00
RAID	This sum included for likely cost associated with Risks, Assumptions, Issues & Dependencies (RAID)	Lot	£	3,500.00
Sub-Total			£	31,000.00

Total Indicative Cost (Ex VAT) £ 103,512.

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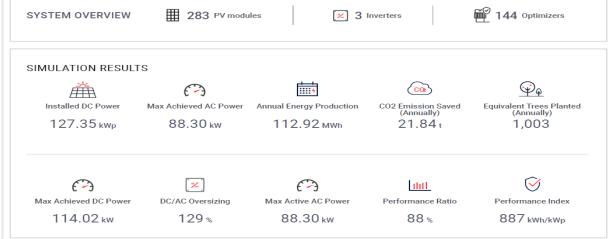


Proposed System Layout - Cirencester Hospital













Proposed System Layout - North Cotswold Hospital



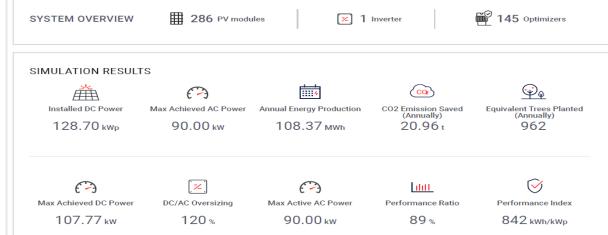




SYSTEM PRODUCTION Total Production - 100 % 108.37 мwh Self-consumption - 82 % 89.23 мwh 108.37 мwh 108.37 мwh 108.37 мwh 108.37 мwh

Import - 70 %

205.81 MWh





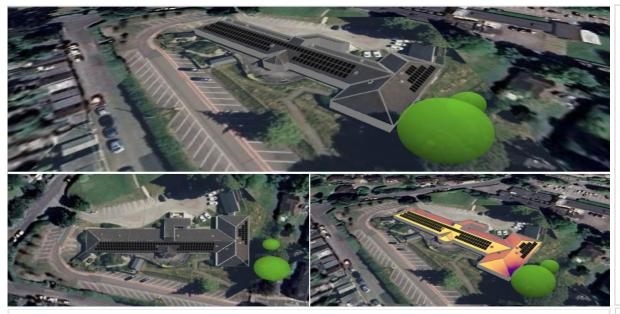
Export - 18 %

19.14 MWh



71 Optimizers

Proposed System Layout – Stroud Hospital Campus









1 Inverter

140 PV modules

SYSTEM OVERVIEW





Proposed System Layout – Tewkesbury Community Hospital













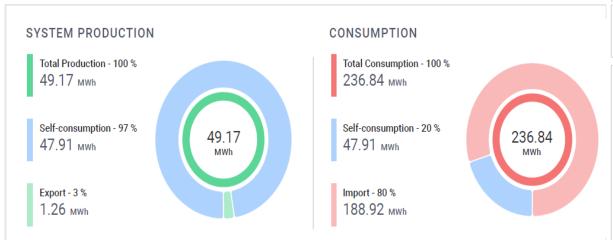
57 Optimizers

Proposed System Layout – Vale Community Hospital

SYSTEM OVERVIEW









[1 Inverter

113 PV modules





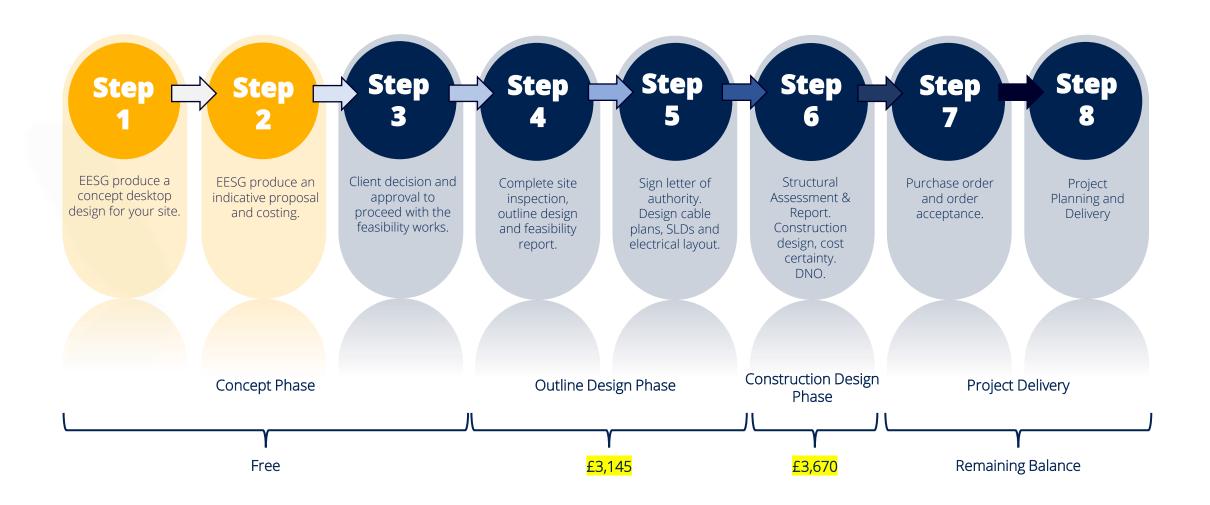
Combined Project Breakdown

Property	Solar PV System Size (kWp)	No. of Panels	Project Cost (£)	Payback (Years)	Annual Electricity Savings (£, Year 1)	20-Year Savings (£)	Ct P/A	Trees Planted (Annually)
Cirencester	127.35	283	£199,098.06	5.2	£ 27,661.00	£722,168.00	21.84	1003
North Cotswold	128.70	286	£191,976.83	4.5	£29,730.00	£786,826.00	20.96	962
Stroud	63.00	140	£109,735.60	4.5	£14,461.00	£390,143.00	11.32	520
Tewkesbury	59.85	133	£100,575.73	4.1	£16,401.00	£ 447,753.00	9.92	455
Vale	50.85	113	£103,512.60	3.6	£16,708.00	£462,939.00	9.51	437
TOTAL	429.75	955	£ 704,898.82	4.38	£104,961.00	£2,809,829.00	73.55	3377





Design & Construction Process





energy efficient solutions group Assess available roof space for solar panel installation via Google Earth Evaluate key factors such as orientation, roof pitch, shading and geographical location **Concept Design** Determine the optimal size and configuration of the solar PV system based on specific energy requirements Free of Charge Review aesthetics and space utilisation of design configuration Obtain customer approval and acceptance of the concept design stage Conduct site inspection and assessment Conduct shading analysis to identify any potential obstructions that could impact system performance **Outline Design** Review the current and anticipated energy demand of the building(s) Verify roof integrity, structural load capacity, and electrical infrastructure Outline Design Develop panel layout and verify components £3,145 Develop cable plans and SLDs Produce electrical designs Develop access plan and scaffolding plan Define DNO requirements **Construction Design** Obtain DNO approval Produce final construction drawings Identify mitigation strategies to address issues such as inclement weather Produce solar panel mounting kit design Develop a comprehensive safety plan for the installation process, including procedures for working at heights, handling Construction Design equipment, and electrical safety £3,670 Define factors such as voltage compatibility and integration with existing electrical infrastructure Develop a schedule of works Produce O&M documentation Review final details and documentation with the customer for final design approval Develop a construction logistics plan to coordinate delivery of materials, equipment, and personnel to the site Project Confirm system shut down times with on-site maintenance team to ensure minimum disruption **Balance** Complete commissioning and electrical certificates





Lead time and delivery programme



Estimated timescales for indicative planning purposes only



Inclusions	DNO Applications – G99 – All units Planning – PMD certificate – All Units Structural Survey – All Units System design and single line wiring schematics (Not Construction) Panels Inverters Solar Edge with Optimizers AC Connection to site distribution G99 protection via separate Relay DNO Witness Test / G99 Tester Scaffold / Access equipment Wind load calculations Site Welfare / Site Storage Construction Design Management / Risk Assessment Method Statement Construction and Mechanical design, Working drawings and details DC switchgear, cables and connectors AC switchgear, cables and connectors System connection All relevant labelling Generation meter Lifetime Full system Monitoring (half hourly) panel level, arch fault detection, safe DC Testing and commissioning Installation Waterproofing of cable entry points Site waste clearance waste disposal Operator Training and Operation & Maintenance manual	EESG/Included
Exclusions	Lightning protection system Man-safe / fall arrest system Permanent roof access Fire stopping	Client Client Client Client
Options	Asbestos survey Roof condition survey Export limitation	Optional Optional Optional
Accessories	Fire Fighter gateway Generator interlock Indoor display Weather station	Optional Optional Optional Optional





Working with EES Group

BACKGROUND

With origins of over 35 years in the industry and established 12 years ago in the LED lighting sector, EES Group has a wealth of experience in providing energy solutions across public & private markets.



20-YEAR WARRANTY

Up to 20-year warranty on Solar hardware.



PROJECT MANAGER

Once the order is confirmed, you will be assigned a qualified project manager who will work closely with you, updating you throughout the project to ensure a seamless process.



INSTALLATION TEAMS

We have highly trained specialist in-house installation teams, which allows us to guarantee that the quality of our work is up to industry-leading standards.



TECHNOLOGY SOLUTIONS

We provide a complete range of solutions including LED Lighting, Solar PV, Heat Pumps and Electric Vehicle Charging.



FUNDING PACKAGES

All our finance agreements are fully compliant operating leases. There are no complex structures and no hidden surprises.









About us

EES Group are at the forefront of innovation, offering the latest technologies within the renewable and sustainable energy sector providing solutions to significantly reduce carbon emissions, save money on energy costs and ensure a sustainable future for your business.

Market leaders in **LED and Emergency Lighting, Solar PV, EV Charging and Heating** within the public and private sector. EES Group has extensive expertise within the **NHS, Local Authorities, Universities, Education and Commercial industries.**

We believe in listening to our client's needs and tailoring our offering to provide the best solution, backed by sound commercial return and carbon reduction data.

Our mission is to provide strategic renewable technology solutions, with the aim of reducing energy consumption and carbon footprint, whilst creating value for our customers and significantly reducing energy costs to meet Net Zero goals.



Our Technologies







Company Values

Sustainability

We take our responsibility to the community seriously and take pride in being a socially responsible organisation.

Striving to ensure we conduct our business in an ethical and responsible manner. We uphold the law, support all universal human rights, seek to protect the environment, and benefit our partners and the communities where we work.









Social Responsibility

Join us in our mission to help businesses reduce their energy costs, CO2 emissions and create a more sustainable future.

We are committed to providing the best solutions that significantly reduce carbon footprint, saves money on energy costs and ensures a sustainable business.











Company Values



Carbon reduction plan read full policy



Social value policy read full policy



Quality policy read full policy



Equality, diversity & inclusion policy read full policy



Environmental policy read full policy



Quality

We are recognised for our high-quality standards in products, design, supply and installation.



Expertise

Our skilled staff have specialist expertise in conducting comprehensive site surveys and the design & installation of energy efficient solutions.



Sustainability

Our priority is to provide renewable, sustainable energy solutions and to offer the most energy efficient technologies.



Environmental focus

Our commitment is to provide our clients energy efficient solutions, while protecting the environment and operating a sustainable business.



Trust

We believe satisfied clients are the key to any successful relationship. We assign a dedicated project manage to work closely with you every step of the way.





















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ISO 9001
Quaity
Management
Systems
CERTIFIED
ISO 14001
Environmental
Management
CERTIFIED
CERTIFIED



This company meets the highest standards of social and environmental impact

Corporation



These Terms and Conditions apply to all goods supplied and/or installations completed by Smart Electronic Technologies trading as Energy Efficient Solutions Group ("the Company") and override any terms and conditions referred to by the Customer whether in negotiations or otherwise.

WARRANTY AND PRODUCT RECALL

Solar products sold by Energy Efficient Solutions Group are covered by a hardware Warranty of up to 20 years, valid from the date of purchase.

In the event of performance issues or defects during your Warranty period, Energy Efficient Solutions Group will supply a free-of-charge replacement product on a parts-only basis.

If a customer needs to contact Energy Efficient Solutions Group regarding a warranty issue, they should call +44 1344 883399 or email info@eesgroup.co.uk.

For more information on our warranty terms and conditions please visit our website.

DISCLAIMER

Whilst reasonable steps have been taken to ensure that the information contained within this report is correct, you should be aware that the information contained within it may be incomplete, inaccurate or may be out of date.

Accordingly, EESG make no warranties or representations of any kind as to the content of this report or its accuracy and, to the maximum extent permitted by law, accept no liability whatsoever for the same including without limit, for direct, indirect or consequential loss, business interruption, loss of profits, production, contracts, goodwill or anticipated savings. Any person making use of this report does so at their own risk.

TERMS & CONDITIONS

On receipt of order, full terms and conditions will be supplied for approval. If you would like to read our terms and conditions prior to this, please visit our website www.energysavinglighting.org.



