



LP ENERGY
ASSOCIATES

Strategic Sustainable Solutions

Capability Statement



An aerial photograph of a city skyline, likely London, featuring a wide river and a prominent bridge. The image is heavily filtered with a teal color, creating a monochromatic effect. The text is overlaid on the lower right portion of the image.

As forward-thinking energy and sustainability consultants, it is our mission to provide our clients with practical and professional advice, ensuring that energy, sustainability and wellbeing are at the heart of our design.



Who are LP Energy Associates?

With over 15 years of construction, energy, building services and heritage building experience, LP Energy Associates focus on providing developers, clients and builders with a range of energy and environmental services.

The services we offer range from the energy assessment of a single dwelling, to providing complex and innovative environmental design to larger complex building, focusing on heating, cooling, renewable technology, acoustics and building physics. No matter what size or complexity of the project, LP Energy Associates are on hand to assist in a professional and straight forward, practical manner.

Why choose LP Energy Associates?

- Experienced and fully qualified specialists
- Professional and practical
- Consultancy throughout all construction stages
- Knowledge of Local and National energy policies
- Multi-Disciplinary expertise and certification
- Strong team with strong values

Our USP

LP Energy Associates pride themselves on providing, clear, realistic and holistic advice to our client base, removing the need for overly worded, unsustainable solutions. Our close and friendly team are always on hand to advise and offer support on energy and sustainable matters.

Company Information

Offices: Kenmore House, Navigation Road, Chelmsford, Essex, CM2 6HX

Registered Office: 162-168 High Street, Rayleigh, England, SS6 7BS

Insurance

- Professional Indemnity - £5million
- Employers Liability - £5million
- Public Liability - £5million

LP Energy Associates Team

Lee Pasifull Bsc Hons

DipNDEA, DipDEA DipOCEA, SKA, NABERS, LCC, BREEAM Assessor

With over 15 years of experience in the construction industry providing design and consultancy, Lee specialises in providing practical, sustainable solutions across all building types and ages, including listed and heritage buildings.

Originally earning a degree in the architectural field, Lee pursued a career in energy and sustainability and has worked extensively within the industry.

Additionally, with over 12 years of experience working in a building services environment, Lee has a well-rounded knowledge of how buildings function and has successfully applied this knowledge to a range of sectors, including domestic, educational, commercial and industrial uses.

Lee also has extensive knowledge of heritage and listed buildings, working on innovative sustainable, future energy performance strategies across many London Estates.

Paul Pasifull

DipNDEA, DipDEA DipOCEA, Low Carbon Consultant

Paul joined LP Energy Associates in 2022 as a joint partner, bringing his range of residential and commercial expertise to the company. Having worked for a long-standing MEP consultant, Paul gained a wealth of knowledge, before moving to a large developer. Pauls works focused on large residential schemes, carrying out SAP compliance, overheating, thermal bridging, SBEM compliance and day to day energy consulting, before becoming a partner at LP Energy.

Paul is the main liaison for a number of valued clients, including large London estates, large developers and asset managers.

Energy Team

Administration
Team

MEP Team



Energy Performance Certification

SAP On-Construction Energy assessment

Non-Domestic Energy Assessments Level 3-4-5

Energy Auditing

Display Energy Certification

Domestic Energy Assessment

Air Conditioning Assessment (TM44)

Air Testing

Light Testing

Retrofit Assessor

25% Glazing Calculations to satisfy Part L1b

MEES Compliance

Services



Energy and Sustainable Planning

Planning Stage Energy Reports

London Plan/GLA and SAP 10 Studies

Sustainability Statements

SAP 10 Reporting

Low & Zero Carbon Energy Reporting

Building Performance Analysis

Water Use Reporting

Fit out and Refurbishment

Local and National Planning Policy Consultancy

Whole Life Carbon Studies

Certification



BREEAM New Construction

BREEAM Domestic Refurbishment

BREEAM Non-Domestic Refurbishment

BREEAM Accredited Professional

Code for Sustainable Homes

WELL

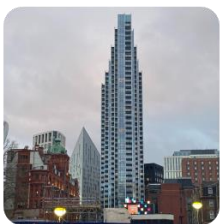
NABERS

Home Quality Mark (HQM)

SKA

Future Homes

Services



Building Physics

Dynamic Thermal Modelling TM52/TM59

Daylighting Assessments

Heating and cooling loads

Heat loss calculations

Whole Life Carbon

Lifecycle Costing

Carbon Zero strategy

Mechanical

Electrical

Public Health



Environmental Social Governance

Whole Building Metering

ESG Guidance and Planning

Sustainability Framework Statements

Embodied Carbon Calculations

Scope 1-2-3 Consultancy

Decarbonisation Planning

ESG Mapping

Net Zero Decarbonisation Planning

Biodiversity and Green Factor

Services



Metering and Monitoring

Energy Monitoring

Occupancy Review

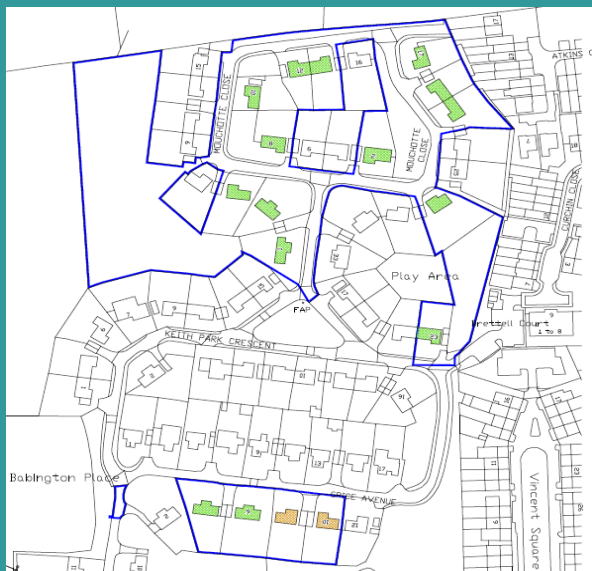
Water Monitoring

Air Quality Monitoring

Building Analytics

Health and Wellbeing

Case Studies



Biggin Hill

Client: Annington Group

Date: 2022

Services: SAP – EPC – Energy Auditing

Appointed to carry out energy upgrade reporting on a housing scheme in Biggin Hill

As part of the scope, LPEA created a customizable upgrade tool to allow clients to review and value engineer EPC upgrade options.



Lower Road

Client: SLA Architects

Date: 2022 - Present

Services: SAP – EPC – Thermal Bridging – Whole Life Carbon

Appointed to act as main energy consultant for 9 no. apartments in Essex. The planning conditions called for several sustainable interventions, including car charging and 10% of energy use being produced via renewable technology.

LPEA worked with the design team to adopt the new Building Regulations into the scheme



Wildfowlers

Client: RSMEP

Date: 2023

Services: SAP – EPC – Heat Loss and Overheating

Appointed to carry out energy works for a large residential dwelling. To ensure accurate building services design, thermal heat loss calculations

Case Studies



Viney Bridge Mill

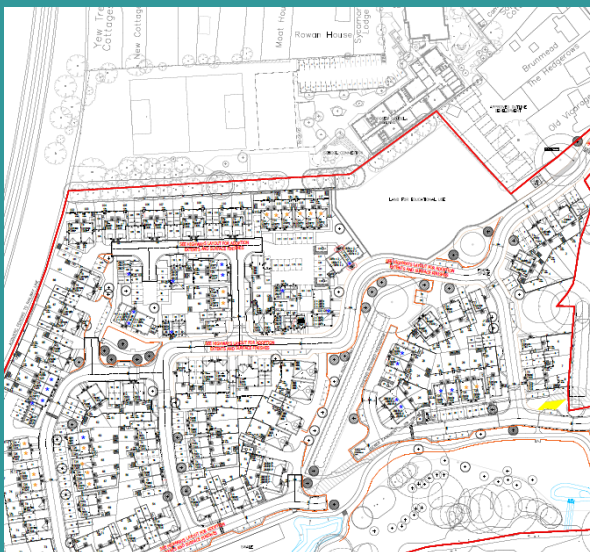
Client: FLD

Date: 2023-Present

Services: SAP – Part O – Energy Auditing – Listed Building

Appointed to carry out SAP assessment, Part O overheating and Whole Life Carbon study on a large new and refurbishment scheme

LPEA provides the design team with regular energy and sustainability guidance, including planning condition discharge, U-value guidance and future proofing solutions



Elsenham

Client: Vistry

Date: 2023 - Present

Services: Part O and TM59 Modelling

Appointed to carry out overheating studies on 131 residential dwellings. The site included noise sensitive areas, with restricted window openings adjacent to an A road.

After carrying out Part O studies, LPEA produced a TM59 dynamic model for house types and advised the client on routes to compliance with AD Part O.



Fairfield House

Client: PML

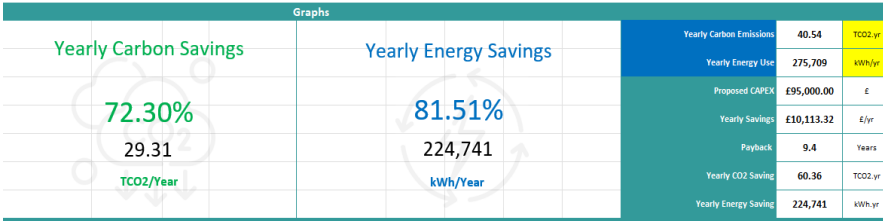
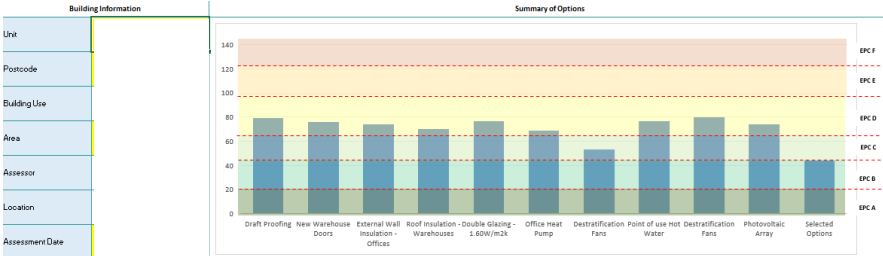
Date: 2024

Services: SAP – EPC – Overheating

Appointed to carry out SAP assessment, Part O overheating and Whole Life Carbon study on 20 apartment scheme in London

LPEA provided the design team with regular energy and sustainability guidance, including planning condition discharge, U-value guidance and future proofing solutions

Warehouse Assets



Unit Information						Carbon Intensity		Energy Intensity		
Unit Number	Current Lodged EPC Rating ¹	Assessed EPC Rating ²	Assessed Score	Selected EPC Options ³	Selected Score	KgCO2/m2/yr	tCO2/yr	EUI kWh/m2/yr	Total kWh/yr	
Unit 1	D	84	F	140	B	50	71.42	61.63	359.23	309,883.16
Unit 2	C	68	E	101	B	42	43.30	49.21	228.75	259,953.79
Unit 3	D	81	F	162	C	55	25.42	13.60	180.87	96,794.39
Unit 4	D	78	F	146	B	43	64.62	42.68	324.64	214,421.47
Unit 5	C	66	G	155	B	49	80.67	87.27	402.55	434,415.86
Unit 7	D	85	F	140	C	55	86.66	57.97	431.73	289,120.95
Unit 9	C	64	D	80	B	44	39.00	40.54	265.23	275,709.24
Unit 10	D	88	F	140	B	40	75.03	78.29	410.10	427,922.95
Unit 11	D	95	F	130	B	41	58.00	119.74	323.39	667,622.49
Unit 14	C	61	G	164	A	29	93.72	189.90	464.85	941,916.26

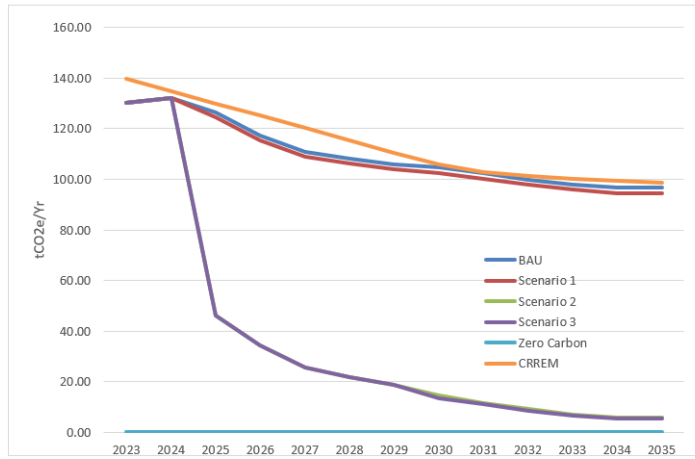
Site Wide Information				Yearly Carbon Emissions	Yearly Energy Use
Current (Assessed) EPC Schedule				740.83	3,917,861
A	0	/	10	Tonnes CO2 Per Annum	kWh Per Annum
B	0	/			
C	0	/			
D	1	/			
E	1	/			
F	5	/			
G	3	/			

Warehouse Assets

Client: Canmoor Group
 Date: 2023 onwards
 Services: Decarbonisation Reporting and EPC Upgrade

LPEA were appointed to carry out EPC and decarbonisation upgrade reporting, across a large portfolio of over 100 warehouse units. The scope consisted of surveying the units and producing a roadmap to EPC B rating. LPEA also spent time liaising with the tenants, to identify 'use specific' options to reduce energy and residual carbon use.

Decarbonisation Roadmap



Criteria	Cost		Carbon		Deliverability			Operational Resilience		Evaluation Score	Rank
	Initial CAPEX	Operating Costs	Carbon Saving (Annual in 2023)	Cost of Carbon (Over Lifetime)	Disruption	Programme Duration	Planning Consent	Operational and Maintenance Complexity	Risk to Resilience and Security of Heat supply		
Notation	1	2	3	4	5	6	7	8	9		
Weighting	15.00%	10.00%	20.00%	10.00%	10.00%	10.00%	10.00%	10.00%	5.00%		
External Wall Insulation	2	2	2	2	1	1	1	3	3	61.67%	5
Air pressure testing	3	2	1	3	2	3	3	3	3	80.00%	1
New double glazing	1	2	2	1	2	2	1	3	3	60.00%	6
Install ETRV's	1	2	2	1	2	3	3	3	3	70.00%	3
Lighting	3	2	1	1	2	2	3	3	3	70.00%	3
Lighting controls (rooms)	3	2	1	1	2	2	3	3	3	70.00%	3
Heat Pump (Heating)	1	3	3	2	1	1	1	2	3	63.33%	4
Heat Pump (DHW)	2	3	3	3	1	1	2	2	2	73.33%	2
Photovoltaic array	1	3	1	2	2	2	1	2	3	56.67%	7

Scenarios

Category	Measure	Detail	£		TCO2/yr
			CAPEX	Annual Cost Saving	Annual Carbon Saving
Fabric	External Wall Insulation	Upgrade internal wall insulation with blown cavity insulation, or insulated plasterboard to internal face. U value to be 0.25W/m2K	£312,900	£2,352.00	8.66
Fabric	Roof insulation	Install roof insulation	£164,000	£3,439.18	9.86
Fabric	Air pressure testing	Carry out air pressure testing (pretest and post) to determine infiltration points	£10,430	£996.67	3.25
Fabric	New external doors	Replace current doors with highly insulated doors (main access doors)	£104,300	£212.29	1.51
Fabric	New double glazing	Replace existing glazing with Low-E double glazing. U value 1.40W/m2K	£1,178,590	£1,123.01	7.98
Heat Decarbonisation	Install TRV's	Install TRV's to existing radiators. No major works assumed	£469,350	£849.16	6.04
Heat Decarbonisation	Install ETRV's	Install eTRV's to existing radiators. Wiring required	£677,950	£849.16	6.04
Power Reduction	MVHR	Install centralised MVHR System	£1,303,750	£4,536.44	9.21
Power Reduction	Lighting	Upgrade lighting above desks, in rooms	£41,720	£1,106.19	0.95
Power Reduction	Lighting controls (rooms)	External lighting is manually switched.	£104,300	£1,290.55	1.11
Heat Decarbonisation	Heat Pump (Heating)	Communal heat pumps system. High temperature system, to retain existing pipework and heat emitters (radiators). Plant room enclosure on ground floor level. Approx 200k for 200kW system. ** Based on high temperature heat pumps and not a complete new heating system (integration with existing)	£270,000	£10,031.84	141.30

	Scenario 1	Scenario 2	Scenario 3	Year
External Wall Insulation			£312,900	2031
Roof Insulation		£164,000	£164,000	2031
Air pressure testing	£10,430	£10,430	£10,430	2025
New external doors		£104,300	£104,300	2031
New double glazing		£1,178,590	£1,178,590	2029
Install TRV's		£469,350	£469,350	2025
Install ETRV's		£677,950	£677,950	2025
MVHR			£1,303,750	2030
Lighting		£41,720	£41,720	2025
Lighting controls (rooms)		£104,300	£104,300	2025
Heat Pump (Heating)		£270,000	£270,000	2025
Heat Pump (DHW)		£1,043,000	£1,043,000	2025
Flow restrictors on taps	£83,440	£83,440	£83,440	2030
Low flush WC	£10,430	£10,430	£10,430	2030
Weather Compensation		£164,000	£164,000	2025
Pipework insulation		£219,030	£219,030	2030
Laundry upgrade		£50,000	£50,000	2028
Photovoltaic array		£60,000	£60,000	2030
Solar thermal array			£521,500	2030

Student Accommodation

Client: UPP/Element 4

Date: 2023

Services: Decarbonisation Reporting – Countrywide

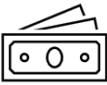


As part of a major decarbonisation plan, LP Energy were appointed to carry out a concise decarbonisation strategy, for 7 university campus buildings. Working collaboratively with other consultants, an asset-wide framework was developed, focusing on energy fabric, building services, fuel switch over and renewable technology. As a finished study, LP Energy advised the client on several scenarios, ranging from a small investment, to full net zero carbon framework options. To report this, a scorecard was created, allowing transparency on CAPEX, OPEX, site constraints and planning issues that may arise from proposed works.

Commercial Major Projects

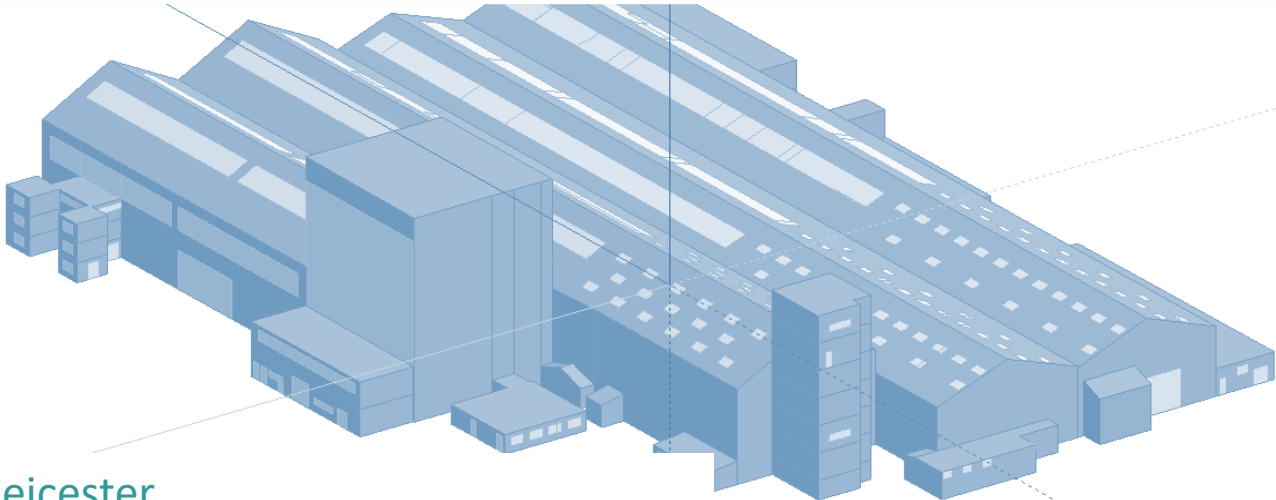


Eversholt Street

Client: Ambit Moat
Date: 2023-2024
Services: Energy Upgrade, Operational (NABERS), EPC Works, SKA Fit Out Rating, Whole Life Carbon

 72% Reduction in Running Costs	 58% Reduction in Embodied Carbon	 SKA Gold Rating
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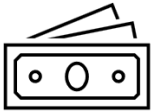
LPEA carried out several innovative, sustainable specialisms for a large office building, in Central London. The client demands exceptional sustainable standards, which ensured a SKA Gold Rating, NABERS 4.5-star proposal and low WLC measures. This includes 95% recycled content from site activities



Leicester

Client: Canmoor Group
Date: 2024
Services: Energy Upgrade, Operational (NABERS), EPC Works,

LPEA worked as energy consultants to provide EPC upgrade solutions, with costs, carbon and energy improvements and future proofing solutions. Where the building was originally at risk of becoming a stranded asset, the design ensures a B rated EPC and improved tenant conditions within the building



49%
Reduction in Running Costs



35%
Reduction in Operational Carbon

Client Testimonials

LP Energy's capabilities, professional advice, and approach have been invaluable in allowing us to meet our sustainability goals as a business. The team are great to work with and have always shown much-appreciated flexibility as obstacles are encountered. We look forward to continuing a very productive partnership into the future

Brick Lane Group

Working on strategy for delivering SAPs at design stage to ensure our clients have full picture are we avoid risks and uncertainty as the design develops

John Francis Group

Great service from a team with plenty of experience, who are always willing to take the time to share their advice and expertise.

Recommended.

Aldridge Blake

Format of EPC +reports is very user friendly and useful for asset managers to make key decisions over where monies need to be spent on refurbishment projects

Canmoor Group

Some of our Clients



Vistry Group



THACKERAY GROUP

THE
PORTMAN
ESTATE

Ambit



telfordhomes
A TRAMMELL CROW COMPANY DEVELOPER



itsu
eat beautiful



workman

CBRE

LEON
NATURALLY FAST FOOD

SMITH &
NEWTON
ARCHITECTS



GROSVENOR



Get in Touch

If you would like to get in touch to discuss your project or wish to receive more information, please contact us at any time



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