

Partner

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PROFILE

LHW Partnership is a specialist engineering consultancy, established to provide high quality engineering expertise with the aim of accelerating the adoption of quality, low carbon energy projects.

Founded by James Hoare in 2013, one of the most experienced professionally qualified engineers in the sector, with over 31 years renewable energy engineering experience, and has undertaken a range of engineering services including feasibility, design, installation, commissioning review, inspection, auditing and verification of thousands of renewable energy systems from small "off-grid" systems to larger 300MWp+ utility scale PV systems.

LHW Engineers have been involved in the energy industry since the 1980s and with renewable energy since 1991, working with some of the UK's first wind farms. We hold many years project engineering experience in renewable and energy efficiency (heat and power), including technical and financial feasibility, project planning, design and installation management. James Hoare is an elected "IET Presidents List" Expert Witness in Solar PV and High Voltage Systems.

Experienced and qualified professional Power Systems Engineer with 30 years Energy Engineering (26 years' renewable power) with experience in the Energy Industry. Predominantly involved with solar PV projects since 1999, ranging from off-grid battery based systems to large, utility scale projects, and also 14 years Ground and Air Source Heat Pump design, installation and advisory experience.

Energy Institute recognised ESOS Lead Energy Audit Assessor. Other experience includes conventional power generation, transmission & distribution, network automation, SCADA/EMS/Telecoms and Traction Power Supplies (AC & DC). Substation / Overhead line / underground cabling design/construction LV/11/25/ 66/132/275/400 kV.

LHW Partnership LLP work with a select number of professionally qualified engineer each specialist on their own field.

Current clients include: Wokingham Borough Council, Kent County Council , Laser Energy, Savills Energy, Foresight Group, Southern Water.

The founder has been providing PV services to Wokingham Borough Council since 2007

EXPERIENCE

Involved with several thousand PV and battery projects from 30Wp to 50MWp since 1999.

Current Projects

- Clients Engineer for 21MWp new build PV farm acquisition for Laser Energy / Kent County Council
- Clients Engineer for 3 MWp new build PV farm acquisition Kent County Council
- Appointed PV Expert Witness for Minter Ellison (Australia's Largest Law firm) , on technical dispute involving 3 PV farms totalling 120MWp
- Appointed Client engineer for Southern Water Services 25MWp Solar PV PPA development project
- IET BESS Code of Practice revision
- Clients Engineer for 30 MWp new build PV farm Wokingham Borough Council
- Various rooftop/Ground mount c1MWp PV/BESS/Off grid projects

PROFESSIONAL AND ACADEMIC QUALIFICATIONS

Engineering Council Chartered Engineer	2000
Institute of Engineering & Technology Fellow	2020
Energy Institute Fellow	2020
The Open University MBA Business Studies	1997 –2011
City University London BSc Electrical Power Systems Engineering	1982 -1985
ESOS Lead Auditor (Energy Institute)	2014
Elected Member (Academy of Experts)	2022

NON-VOCATIONAL QUALIFICATIONS

ITC Infrared Training Centre Thermography, Level 1 & 2	2014/15
NICEIC CPD Training, C&G 2399 Solar PV Installation & Maintenance	2013
Energy Institute Advanced Energy Manager	2013
British Standards (BSI)	2013

James Hoare

BSc MBA CEng FIET FEI



Implementing ISO 50001 Energy Management Systems

CAA Approved sub 20kG UAV Pilot Licence Holder

2015/16

CAREER DETAILS

Partner

May 2013 –Present

LHW Partnership LLP, Leighton Buzzard

LHW Partnership is a specialist renewable engineering services consultancy operating both in the UK and overseas. The partnership has been established to provide high quality engineering expertise to our clients in order to accelerate the adoption of quality low carbon energy projects, and avoid the adoption of inappropriate solutions. Expertise include in system modelling, feasibility, due diligence, design, project management, verification & validation, plant performance investigation, thermography, IV curve field testing and analysis, harmonic appraisal, DC & AC systems investigation, expert witness.

Battery Storage, Solar PV, Wind , Heat pumps and ESOS Energy Surveys

LHW Partnership is the appointed technical advisor and engineering consultant for a number of leading organisations within the Legal, Estate Management, Development, Consultancy and Construction markets. LHW Partnership represents the BRE National Solar Centre at the ENA / DNO/ DG Technical and Grid Steering Group.

Co-founder & Technical Director

January 2007 – August 2013

Ardenham Energy, Aylesbury

Co-founder and first employee of company, establishing and implementing business strategy for managed growth with limited working capital leading to profitable turnover in 2010/11 of £6.8m culminating in VC investment.

Ardenham Energy was a leading engineering installation contractor specialising in building and ground mounted Solar PV, Solar Thermal, Heat Pumps and Wind systems. Engineered solutions for domestic, public sector, small to large scale commercial and field based including export constrained projects. Responsibilities included technical development of company's activities including strategy for expansion into large scale heat and maintenance of installation compliance.

Responsible for company technology and operational strategy including marketing, sales, engineering, procurement and installation. Recruited and established team of engineers, project delivery, proposals and business development staff. Established the systems and procedures to become the first organisation in UK to pass the then new MCS Accreditation and within 2 years expanding this approval to cover PV, Heat Pumps, Wind Turbines, Solar Thermal, and 5 subsequent successful audits.

Consultant

January 2004– December 2006

Carmanah Technologies, London & British Columbia

Carmanah Technologies are world leaders in the integration of solar power LED lighting systems and large scale grid connected PV Systems, off grid and grid connected power systems for lighting and power including at the time world's largest off grid solar lighting project roll out (7000 systems with TFL)

Head of "Off Grid" Energy Storage Systems

August 2000 – August 2003

James Hoare

BSc MBA CEng FIET FEI



solarcentury, London

Solarcentury, the UK's most experienced solar energy company, was founded in 1998 to design and supply solar energy solutions for the built environment. Developed and managed projects where there was not a need for incentive or grant schemes. This was principally focused on localised battery storage systems where the economics did not necessitate a grid connection. Significant work with matching PV with emergent hi flux LED systems.

Consultant Engineer (Power Systems) 1996 – 2000

WSP Parsons Brinckerhoff (PB Power) , Godalming, Newcastle & Manchester

Development Engineer (Power Systems) 1993 – 1996

ESB International, Kingston on Thames and Dublin
EHV/HV & Wind farm projects

Engineer & Business Development (Power Systems) 1985 – 1993

GEC Power Systems (now General Electric Power Systems / Schneider) London, Stafford, Rugby, Manchester & London

Student Engineer 1982 – 1985

CEGB (National Grid Company), National Control Centre, London

PUBLICATIONS

James P. Hoare, Laura A. Jones (2016). Maximisation and optimisation of solar PV generation with limited grid capacity through the adoption of new technologies. *Eng. Technol. Ref.*, pp. 1–10 doi: 10.1049/etr.2016.0037. The Institution of Engineering Technology

Energy Institute - Energy World Publication 2008 and 2012. *Appraisal of a domestic properties adoption of renewable and energy efficiency measures over a 5-year period.*