



Inspiring renewable energy

dulas.org.uk



Making a difference for people and planet

Our planet is a small one, and the only one we call home. Protecting it is our priority.

Founded in 1982, the Dulas journey is one of inspired pioneers, pursuing deeply held convictions. Four decades on, as the world shifts its energy consumption to renewable sources, we remain at the forefront of efforts to maximise the effectiveness of clean energy at home in the UK, and in areas of greatest need around the world.

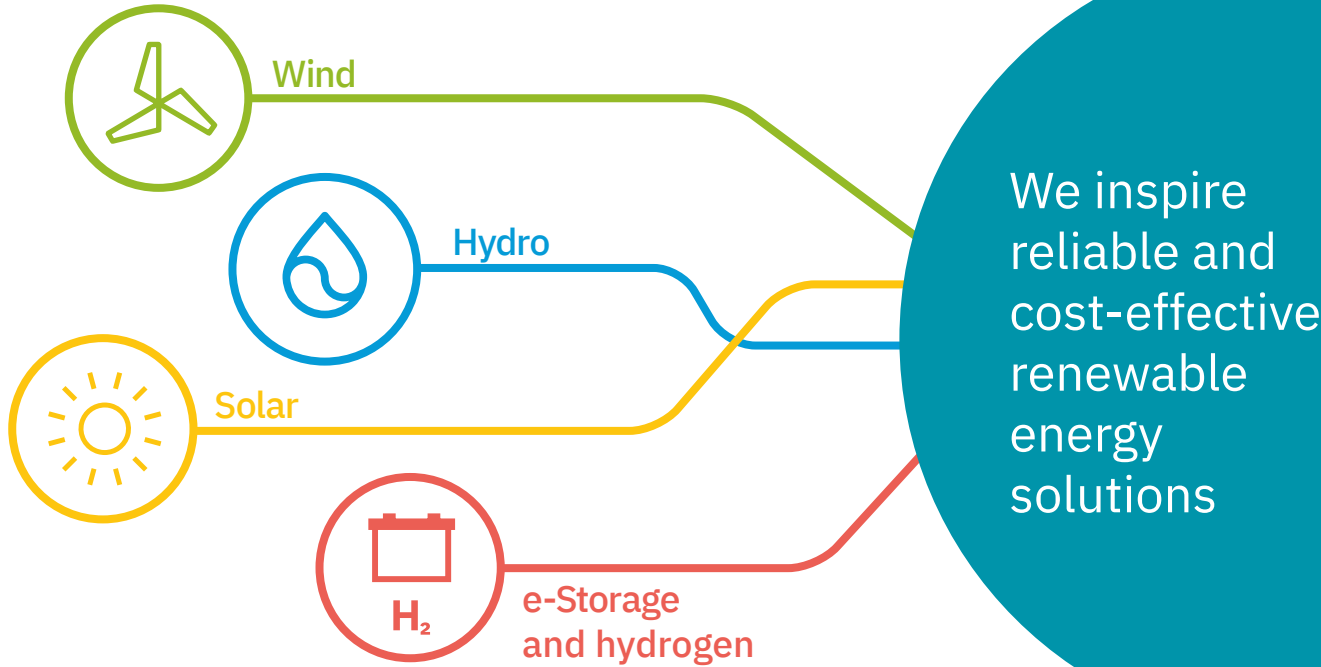
At Dulas, we are committed to making positive changes for people and planet, because we believe clean energy means a healthy future.

We look forward to helping you on your renewables journey.

Ruth Chapman
Managing Director



What we do





The story so far

Dulas' history has seen the company pioneer innovative uses of solar, hydro and wind energy in the UK and across the globe.

Our projects have taken us around the world, from Austria to Zambia, providing real solutions to the clean energy and humanitarian sectors, the public and commercial sectors, and to everything in-between.

Founded in 1982 within the Centre for Alternative Technology (CAT), Dulas has been at the forefront of the renewables industry for four decades, developing innovations that are still in use around the world today.

Around that time, Dulas developed the model concept for solar vaccine refrigeration that has become adopted

as an industry standard today, which has helped to save millions of lives through vaccination programmes in remote areas.

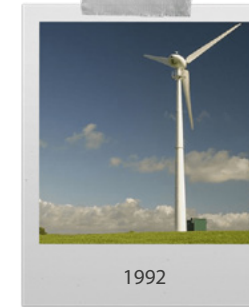
In 1988, while continuing to expand, we became an independent, employee-owned company.

The invested passion of every team member is what has powered Dulas' continued progress and growth over the decades that have passed since. We have continually developed and refined technology that harnesses the full power of renewable energy, and we have won various awards along the way. Some of the significant milestones are included in the timeline opposite.



1988

Installed first 10-metre wind monitoring masts in Cemmaes, Wales



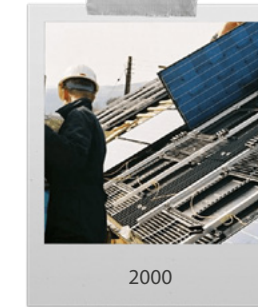
1992

Public inquiry and construction of the UK's second wind farm, Cemmaes



1995

Installed 2x 100kW hydro turbines at Thun Da, Tibet



2000

Installed first domestic solar PV systems connected to the grid in Llanwrin, Powys



2004

Won Queens award for Enterprise



2008

Won Ashden award for Sustainable Enterprise



2012

Installed hydro scheme at Dŵr Cymru Welsh Water's Strata Florida



2019

Official reseller of Vaisala WindCube for UK and Ireland.



A heritage in wind

Discover our wind energy services

As one of the UK's leading independent wind consultancy companies, Dulas works across the UK and internationally to help our clients design, develop and optimise their wind projects.

Our development team have a track record of more than 1GW worth of successful wind projects under their belt. Our wide portfolio of valued clients ranges from multi-national utility companies to medium-sized commercial developers, as well as individual landowners.

A trusted name

For wind measurement campaigns, our trusted brand of robust tubular met masts are now complemented by our advanced laser measurement systems provided by our industry-leading partners.

Wind consultancy services

For more than 40 years, Dulas has helped clients to develop wind energy sites across the UK and Ireland. Our in-house consultancy services include:

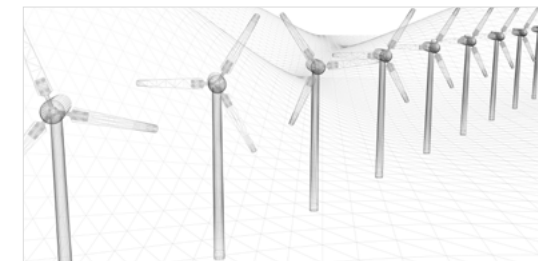
- Site-finding and feasibility studies
- Environmental Impact Assessments (EIAs)
- EIA screening, scoping and stakeholder identification
- Geographic Information System (GIS) and constraint mapping
- Public consultation
- Site design for planning
- Preliminary energy yield
- Planning applications

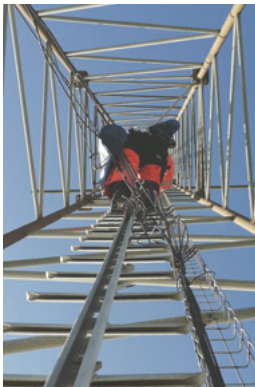
Dulas' experienced project development managers work with a range of sub-consultant partners to provide the various surveys required for EIA preparation. All Dulas sub-consultants are assessed and approved to Dulas' standards of Health, Safety, Environment and Quality management.

Dulas is an accredited member of the Institute of Environmental Management (IEMA). For more information, please visit iema.net.

Get in touch

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Wind measurement services

Developing investment-grade assets requires bankable data

Dulas is a leading provider of advanced meteorological masts and equipment suited to rugged, upland terrain throughout the UK and Ireland. We have a range of tubular mast solutions for up to 90m above ground level, and robust lattice towers that can reach 120m.

The enduring appeal of traditional met masts compared to more recent remote sensing technologies such as LiDAR and SoDAR is much discussed within the wind industry. Such devices are often flexible and certainly have their place. However, so far, the wind industry continues to benchmark wind energy performance using fixed tower anemometry techniques that are well-established and have known uncertainty bands.

Data capture you can depend on

For both conventional mast anemometry and remote sensing, Dulas is an experienced provider of turnkey services for wind measurement, offering bespoke solutions to suit any application. Our standard packages provide in-house data portals, autonomous remote power systems and telecommunication interfaces, which provide user control and reliable data capture.

Our team has a deserved reputation for professionalism and working safely. We proactively collaborate with our clients for health and safety management.

Remote sensing: WindCube LiDAR

To complement our experienced met mast capability, Dulas uses the world's leading vertical wind profiler, the Vaisala WindCube.

The WindCube is a global benchmark for ground-based, vertical wind profiling. Capable of measuring at 20 heights simultaneously, and accurate across a range of heights up to 300m, the WindCube is recognised around the globe for reliable laser wind measurement, with thousands of units deployed over more than 20 years. The WindCube is accepted onshore and offshore by all international standards and guidelines.

Our teams offer end-to-end deployment services for the WindCube and other remote sensing devices. These include a range of bespoke remote power systems that are customised to each deployment location, and include integrated telecoms, fuel systems and data loggers.

All our systems can be maintained, refuelled, and operated by Dulas on a turnkey basis, or according our clients' customised requirements.

Get in touch

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VAISALA





The power of hydro

Over the past four decades, Dulas has worked with a range of project partners, from large developers and utilities to private landowners. We are recognised as one of the leading independent hydropower consultancies in the UK.

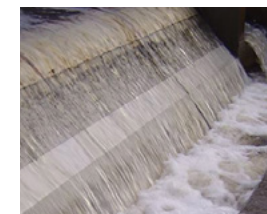
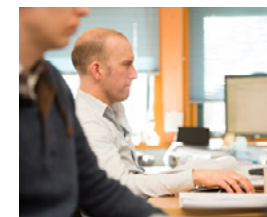
Our solid industry credentials mean that we can offer a host of different services across all aspects of a hydro project – from early planning application support and site design, right through to contractor management, installation, and operations and maintenance.



Hydro consultancy services

Dulas retains a core team of experienced hydro consultants that support the full project lifecycle, starting from development, through the construction process, and into the operations period, including optimisation and refurbishment for maturing assets. Our consultancy services include:

- Resource assessment and feasibility studies
- Site development, including planning and abstraction licensing, permitting and site design
- Construction project management for turnkey installations, including in specialist water treatment facilities
- Due diligence services, for new developments or operational projects seeking refinancing
- Third-party owners engineering services
- Training for hydro personnel



Get in touch

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Operation & Maintenance

Getting the most from your project

Dulas provides a range of operational services to ensure that project owners are generating the maximum potential from their hydro schemes. Our teams work across more than 30 sites across Wales and Scotland. We perform daily checks, along with regular planned and unplanned maintenance, and our engineers are on call to respond to any emergency.

Optimisation and revenue maximisation

Dulas’ extensive hydro experience can also help you to optimise every stage of your project’s profitability, dependably repairing hydro systems that have suffered technical failure or are in need of refurbishment.



Control panel rebuild by Dulas



Get in touch

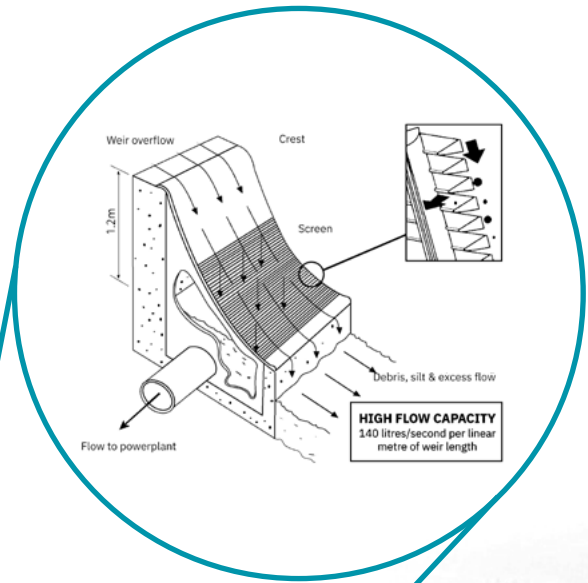
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Coanda intake screens

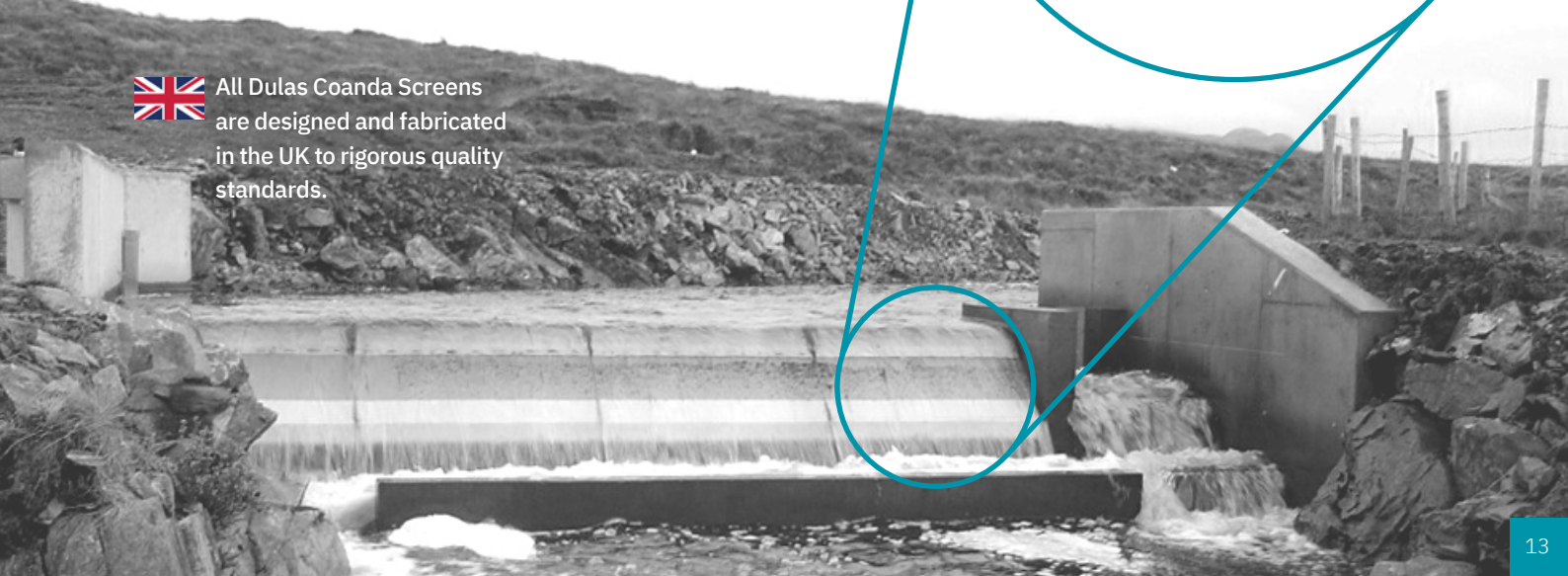
Designed and manufactured for high-impact hydro efficiency

Dulas are the pioneers behind the successful and widely-proven AquaShear Coanda screens, which offer a cost effective, low maintenance screening solution that prevents clogging, maximises flow potential, and reduces the need for regular maintenance inspections.

We provide technical expertise for hydropower installations that utilise AquaShear Coanda screens – helping projects to deliver on their full potential.



 All Dulas Coanda Screens are designed and fabricated in the UK to rigorous quality standards.





Pioneering solar

As a leader in solar since 1982, Dulas is well-placed to support the successful development of solar photovoltaic (PV) projects. Our experienced consultants can guide clients through the full development, construction, and operational lifecycle.

Our experience encompasses a wide range of solar project typologies, from ground mounted utility-scale systems to smaller 'behind-the-meter' rooftop systems for industrial applications.

We offer initial feasibility assessments, planning consultancy, and solar design at utility scale, plus a range of project management and owners engineering services for construction and operation.

Solar development consultancy

Experience counts

Whether it's for a ground mounted or roof mounted solar system, our track record of helping developers – having been a constructor and operator – provides a unique perspective to our development consultancy services. Dulas promotes a phased approach, reducing unnecessary expenditures by identifying potential showstoppers early in the process to minimise project development risk.

Environmental Assessment

We balance each project's business goals with a sensitive and comprehensive approach to the consultation, planning and environmental assessment process. Dulas' designers, planners and project EIA consultants have helped clients to successfully develop solar projects across the UK and Ireland, with a combined capacity of more than 250MW.

Get in touch

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Solar design and optimisation

LCOE focused design

Dulas offers an in-house technical design and optimisation service for solar PV projects.

Solar projects in the subsidy-free era require a design approach that is highly focused on satisfying the underlying business model. This often requires achieving the lowest long-term Levelised Cost of Electricity (LCOE) generation, balancing capital expenditure with lifetime revenues and costs.

Sequential design process

Our design approach follows a defined process to obtain this outcome:

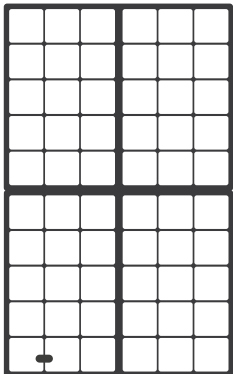
- 1 Definition of client requirements
- 2 Constraints and terrain mapping using advanced GIS tools
- 3 Site layout design, in coordination with manufacturers supplied information
- 4 Optimisation, iteration and refinement to achieve project financial goals

e-Storage and Hydrogen

Dulas installed its first battery storage project over 25 years ago. Ever since, we have applied our technical knowledge to provide efficient storage solutions that allow energy to be used when grid electricity is at its most expensive, or when there is demand but no renewable source available.

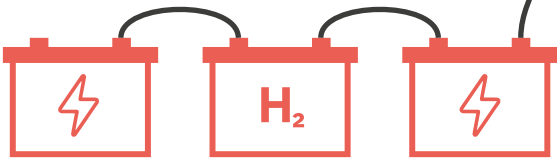
We offer packaged renewable storage solutions for remotely powered equipment, such as LiDAR systems and data loggers. For larger power demands, including Electric Vehicle (EV) charging and islanded mini-grids, Dulas offer integrated solutions using the latest Lithium-Ion battery technology.

In 2022 we evolved our offering further to work with hydrogen storage. This means that Dulas is now able to provide consultancy services to clients who seek to understand this rapidly growing sector.



Get in touch

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A responsible provider

The wellbeing of people and the environment are paramount in everything that we do.

Our work takes us to many locations, some of them inherently hazardous, both in the UK and around the globe. From maintaining windspeed monitoring equipment high up on meteorological masts, to helping set up solar refrigerators in remote African villages, we take responsibility for ensuring that everyone our work involves and affects, remains healthy and safe.

We operate to globally benchmarked standards for quality, the environment, and health and safety. These include the ISO 14001 Environmental Management System standard. Our accreditation is reviewed and externally audited on an annual basis. We are also accredited and audited by Achilles UVDB in connection with our design, construction and project management activities.

A co-operative mindset

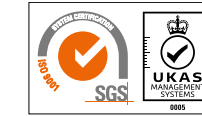
Our business is an employee-owned co-operative, with mutual care for one another, and respect for all those we work with. We passionately believe in a sustainable future, with opportunities for all, which is one reason we donate a portion of the company profits annually to charitable causes.

Our commitment to quality

Dulas maintains a reputation as a trusted provider that puts ethics, environment and quality at the core of everything we do. Our vision is to be the company of choice in the renewable energy sector, striving to deliver value and excellence for our clients.

Dulas demonstrates the highest standards of quality by operating to ISO9001 as the minimum standard across our activities in consultancy, product supply, project management, implementation and operation. Supporting this, we maintain and develop our skills and competence through a process of ongoing review and external audit to ensure that we have the capability to meet our client's needs.

Accreditations



We support





For more information, please visit
dulas.org.uk/renewables



For a selection of Dulas projects,
visit **dulas.org.uk/case-studies**

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