

ITPEnergised

Trusted Technical Advisor

An Introduction

“We believe passionately in the world’s transition to net zero. We are a team of trusted technical advisors who meet and exceed our clients’ aspirations.”



Passionate about net zero



Our passion

We believe passionately in the world's transition to net zero. We are a team of trusted technical advisors who meet and exceed our clients' aspirations.



In numbers



ITPEnergised



> 75% repeat business



Helped 190 clients achieve carbon targets in 2020



> 65 countries, > 30 developing countries



> 10 locations globally



Directly driving 7 of 17 UN SDGs

*7. Clean energy 8. Economic growth 9. Industry and Infrastructure
10. No inequality 11. Sustainability 13. Climate action
17. Partnership*



Our motivated staff are key to us and our clients



Delivered > 220 RE & storage projects in 2020



Commercially minded & technology-enabled

Summary



1

Locations



- Headquartered in Edinburgh.
- UK Offices: London, Bristol, Leeds, Edinburgh, Glasgow, Aberdeen.
- Sister companies in Australia and India.
- International Offices/Joint Ventures: Madrid, Buenos Aires, Lisbon, Canberra, Delhi.

2

What we do



- ITP Energised is a leading technical advisor working in the UK and overseas.
- We provide expert, pragmatic and commercially focused advice.
- We offer a range of renewable energy, natural resources, environmental, engineering and technical advisory as well as asset management services.

3

Our approach



- We are independent and technology and solution agnostic.
- Client focused, developing long term relationships.
- A people business.
- Technically excellent, with a focus on adding value.
- Technology-enabled
- “More than a consultancy”.

Target sectors



1 Energy



- Onshore & Offshore Renewables
- Hybrid Renewables
- Oil & Gas Transition
- Storage (hydrogen & battery)
- Transmission & Distribution

2 Corporate, Industrial & Manufacturing



- Food & Drink
- Chemicals & Pharmaceuticals
- UK Manufacturing
- UK Space Industry
- Aviation

3 Property & infrastructure



- Commercial, residential & industrial property
- Aviation & Aerospace
- Water
- Road & Rail

Our clients



Some of our clients



Our USPs



What clients say about us



- Technology-enabled
- Reputation for technical excellence
- Client-focused
- Beyond consultancy
- Wider networks
- 'Joining the dots'
- Commercial & innovative



Client Testimonials



Feedback

- *“ITPEnergised met and surpassed our expectations throughout the project – we were impressed with the approach taken from the first meeting.”* - Global industrial client
- *“One of the clearest and most concise reports I have read.”* - Local Authority planning officer
- *“The level of detail and comprehensive information provided by the applicant meant that we could bring the application to a conclusion in a timely manner. It really is a lesson for anyone thinking about a project that requires planning permission – it pays to ‘get it right first time’.”* - Cairngorm National Park Authority, Strathspey Distillery
- *“I’ve been very impressed with ITP Energised and the level of quality consultants and professionals they employ and use to provide technical information and project management. It’s apparent that the people that work for the organisation are motivated and incentivised to do a good job, which is key to the success of such a company.”* - International renewables energy client
- *“ITPEnergised are our go to trusted advisor for technical input on transactions.”* - Major UK Law Firm

How we work with you



Engagement



We think win-win and full project life cycle to help our clients grow:

- We identify relevant trends and innovation:
 - Emerging technologies and future best available techniques
 - Key regulations that drive investment opportunities and risks
 - Market size, growth and behaviour in short and medium term
 - Strategic actions of participants and our network
- We are then better placed to understand your wider goals
- We provide expert and commercially focused guidance and scientific analysis
- We join the dots with other ITP Energised services and co-professionals that may be of benefit
- We close gaps in expertise needed with our comprehensive network

Our expertise



Overview				
Corporate Advisory Asset Management & Technical Due Diligence EHS, Permitting & Compliance Air Quality & Acoustic Impacts Energy & Low Carbon Transition Environmental, Social & Governance Sustainable Development & Finance	Environmental Planning Environmental & Social Impact Assessment Ecology and Ornithology Construction Environmental Management Flooding & Hydrology	Technology Engineering Power Systems Analysis Development Project Mgmt & Grid Services Regulation Services	P3M Project Management Programme Management Portfolio Management Development Management	Technical Safety and Risk Risk Assessment Risk Management Risk Control
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Our expertise



Corporate advisory



ESG & Sustainable Development and Finance

- ESG strategy and performance
- Impact investing
- Stakeholder engagement
- Carbon strategy
- Compliance and diligence
- TCFD alignment
- Benchmarking (CDP, SDGs)
- GHG reporting and verification
- Programme management
- Capacity building and training



Energy and Low Carbon Transition

- Energy management system design and auditing
- Energy and carbon permitting
- Decarbonisation and net zero strategy planning
- Technical and commercial feasibility assessments
- On-site energy generation feasibility
- Energy Performance Certificates
- Behavioural change programmes



EHS, Permitting & Compliance

- Applications, variations and surrenders
- Emissions monitoring and assessment
- Air Quality modelling (ADMS, Aermid, Puff)
- Environmental Management Systems
- Regulator and stakeholder liaison
- Compliance support
- Improvement conditions



Asset Management & Technical Due Diligence

- Technical asset management
- Financial asset management
- Technical due diligence
- Technical advisory and Client's Engineer
- Solar design



Air Quality & Acoustics

- Odour and Noise monitoring
- Modelling and interpretation
- Liaison with stakeholders
- Odour and Noise control and abatement
- Best Available Techniques assessment and justification
- Cost benefit analysis
- Private nuisance support

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Our expertise



Environmental Planning



Environmental & Social Impact Assessment

- Constraints assessments
- Feasibility, screening, scoping
- ESIA project management
- Regulatory consultation
- Technical disciplines
- Stakeholder engagement
- Public inquiry
- Expert witness



Ecology & Ornithology

- Habitat and botanical survey
- Preliminary Ecological Assessment
- Specialist species surveys
- Biodiversity enhancement
- Habitat management plans



Construction Environmental Management

- Licensing support
- CEMP
- Environmental monitoring
- Habitat management
- Environmental clerk of works
- Ecological clerk of works



Flooding & Hydrology

- Flood risk assessment
- Hydrological assessment
- Peat management
- Surface water management
- Groundwater Dependent Ecosystems

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Our expertise



Technology



Engineering

- Technology review
- Engineering review of systems design
- Substation site selection and routing designs
- Cable design including dynamic loading and asset reliability
- Substation layout design
- Grid connection concept
- Micro grid concept costing
- Private wire design



Power Systems

- Load flow studies and reactive power capability, compensation equipment specification and optimisation
- Short circuit (fault level) equipment rating
- Transient network strength studies and stability (SCR, weak grid)
- Electrical losses assessment and design optimisation
- Grid Code compliance tests, studies and model validation
- Cable rating, including offshore dynamic cable rating
- Network constraint modelling



Development Project Management & Grid Services

- Project design development and management
- Site finding and resource assessment
- Grid application preparation, support and due diligence
- Network connection costing
- Procurement support
- Programme management



Regulation Services

- Licensing, exemptions, regulatory requirements, metering systems, obligations and arrangements.
- Grid connection costs
- System charges (TNUoS, GDUoS)
- Balancing charges (BSUoS)
- Transmission loss multipliers, benefits and credits, underwriting and security requirements.
- Charging arrangements for transmission and distribution connected projects.
- Provision of consultation briefings and responses to help our clients be heard and protect their projects.

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Our expertise



P3M



Project Management

- Setting project brief
- Business case support
- Appointing, leading and motivating the team
- Managing risk, change, finances and progress
- Service agnostic leadership & drive
- Managing progress vs plan
- Procurement and contract management
- Stakeholder management
- Guardians of guidelines and quality
- Controlled project closure & recycling LfE



Programme Management

- Coordinated management of inter-related projects
- Time, resource and capital management
- Matching team & technology to strategic vision
- Providing interdisciplinary input
- Stakeholder management
- Using lessons learned to add efficiency
- Managing relationship between projects and programme
- Delivering the big picture



Portfolio Management

- Selection & prioritisation of opportunities through the funnel
- Developing & managing portfolio roadmap and plan
- Establishing suitable governance framework
- Developing portfolio team
- Maintaining whole portfolio overview
- Coordinating interdisciplinary expertise
- Identifying Lessons Learned and harnessing LfE
- Delivering better overall outcomes



Development Management

- Full wraparound service for whole development process
- Holistic whole project overview
- Client's advisor
- Collaborative project brief setting
- Coordinating multidisciplinary teams
- Managing stakeholders, public consultations
- Full appraisal of new opportunities (due diligence, feasibility studies etc)

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Technical Safety and Risk



Risk Assessment

- Hazard Identification
- Failure Modes and Effects Analysis (FMEA)
- Physical Effects Consequence Modelling
- Qualitative/Deterministic Risk Assessment
- Quantitative/Probabilistic Risk Assessment
- Environmental Risk Assessment



Risk Management

- Risk Reduction and ALARP Assessment
- Bowtie Risk Management
- Process Safety Management
- Functional Safety
- Reliability, Availability and Maintainability (ARM) Assessment
- Safety Assurance
- HSSE/Safety Cases
- HSSE Management Systems



Risk Control

- Asset Integrity Management
- Independent Review and Verification
- Competence Management
- Culture and Behavioural Safety

Helping our clients...

...understand what can go wrong and the consequences of this to people, the environment, business, assets and reputation.

...implement the systems (Plant, Processes and People) to reduce the associated risks As Low As Reasonably Practicable (ALARP).

...ensure these systems work effectively throughout the lifecycle of the asset to support safe, effective and sustainable operation and minimise loss.

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Our expertise



Innovation



- Ongen renewables feasibility software
- TNUoS and TLM model
- ESG index benchmarking tool
- Digital EIA
- Hybrid renewables assessment
- Land bank renewables assessment
- Battery storage application
- LCOE, LCOH, LOCH
- Predictive emission monitoring system
- Cable rating thermal model
- Automated data collection & analysis
- Asset management software



Sister companies



Wider ITPowered family



- ITPAU – Australia & NZ
- ITPThermal – Australia
- ITPIndia – Delhi



Contact us



info@itpenergised.com



Thank You!

We are keen to continue our net zero conversation with you.

Please contact us at:

Jonny Clark, Managing Director

Jonny.clark@itpenergised.com

Mob. 07713 985932

Andrew Bright, Operations Director

Andrew.bright@itpenergised.com

Mob. 07825 028301



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Visit the ITPenergised group offices in:

Bristol, London, Edinburgh, Glasgow, Buenos Aires, Lisbon, Madrid, Delhi, Beijing, Canberra, Auckland

Onshore Renewables & Storage | Offshore Wind & Marine
Renewables Corporate, Industrial and Manufacturing | Property & Urban
Regeneration Oil & Gas Transition

