

ITPEnergised

Trusted Technical Advisor

Offshore Wind & Marine Renewables Sector

“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.”





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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

Passionate about Net Zero



Our passion



We deliver from a position of passion in all we do:

We're passionate about Net Zero. We are a team of industry leading trusted technical advisors who aim to meet and exceed our clients' aspirations, targeting growth markets and clients.

Our chosen clients are focused on our world's transition to net zero and include offshore wind developers, funds, lending banks, oil & gas companies, technology developers, regulators, government and industry bodies.

We work across the lifecycle of projects for our clients leading to the delivery of portfolios across sectors leveraging out key areas of expertise:

Sectors:

- Onshore Renewables & Storage
- Offshore Wind & Marine Renewables
- Oil & Gas Transition
- Property & Urban Regeneration
- Industry & Manufacturing
- Food & Beverage

Expertise:

- Corporate Advisory
- Environmental Planning
- Technology
- P3M
- Technical Safety & Risk

Why we are different



Differentiation



We think outside the box to help you transform your business:

- Understanding your bird's eye view on wider goals and objectives
- Bringing our passion, commitment and focus to your projects
- Delivering high quality, on time, on budget projects
- Bringing innovation and problem solving solutions
- Being confidently curious in all that we do
- Becoming an extended part of your inhouse team and advisors
- Understanding the commercial implications of technical discovery
- Challenging the status quo where it adds value – revenue, cost, time
- Thinking long term – pipeline, portfolio, platform - not just one project

How we work with you



Engagement



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

- Sector leads identify overall megatrends in sector scope:
 - Market size, growth and behaviour in short and medium term
 - Strategic actions of participants
 - A commercial view of the implications of sector trends
 - Key regulations that drive investment opportunities and risks
 - Thought leadership across emerging topics of client interest
 - Activate networks to provide multidisciplinary outcomes
 - Work with sister companies to provide international coverage
- We are then better placed to understand your wider goals
- We identify where you are in our life cycle of services
- We join the dots of when other ITP Energised services may be needed for you
- We close gaps in expertise needed with our comprehensive network
- We bridge relationships between clients to build net zero momentum where needs can be met in a win-win environment.

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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Our expertise



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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Some of our clients





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ITP Energised Group offices in:

Bristol, London, Edinburgh, Glasgow, Aberdeen, Lisbon, Madrid, Delhi, Beijing, Canberra and Auckland

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

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