

I provide independent advisory support to public and private sector organisations working on complex energy transition and infrastructure programmes and strategies.

I have over 20 years' experience bridging the energy transition, utilities, infrastructure delivery, and subsurface engineering, together with policy awareness, business management and system level thinking. With this unique cross sector perspective, I can enable practical strategies that align technical feasibility with commercial viability and regulatory confidence.

My focus is on helping clients:

- Understand key risks and uncertainties.
 - Challenge assumptions and test underlying logic.
 - Make informed long-term strategic and technical decisions.
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Core Services – Energy transition and related infrastructure

1. Technical & Strategic Review

High impact independent reviews of projects, proposals or strategic ideas.

- Identify risks, gaps and key dependencies.
- Provide clear, practical recommendations.
- Regulatory compliance assessments and policy alignment.
- Technical due diligence for investors, lenders, and insurers.

Example project: I worked with a local authority to assess the practicalities, scale of investment, and operational costs needed to replace their fleet of large vehicles with hydrogen fuelled alternatives.

Typical engagement: 1-4 weeks. *Output:* concise written report and/or presentation.

2. Project & Infrastructure Advisory

Ongoing, flexible support to projects and programmes.

- Input to complex or uncertain projects.
- Review of plans, designs and key decisions.
- Stakeholder engagement and public consultation management.
- Independent challenge and guidance.

Example project: I worked with a project developer to understand the regulatory constraints on their offshore energy storage project, and identified engineering solutions to support compliance.

Typical engagement: 3-12 months. *Output:* Ongoing advisory support, decision memos, meeting participation.

3. Energy Transition Analysis & Insight

Targeted analytical and research based support.

- Sustainable fuel systems.
- Decarbonisation strategies.
- Infrastructure and system level impacts.
- Feasibility studies and comparative evaluation of options and pathways.

Example project: I worked with a global energy company to assess renewable fuel options for offshore support vessels, in terms of costs, emissions, and supply chain – at present and by projected end of vessel life.

Typical engagement: 2–12 weeks. *Output:* Structured analysis, reports, or executive briefings.

Additional services

- Expert seminars and workshops on sustainability pathways for non-specialist staff and boards.
 - Specialist partnership arrangements for multidisciplinary projects (eg. financial modelling, specific engineering disciplines).
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Relevant Experience, Credentials & Affiliations

- PhD in infrastructure for hydrogen as a fuel and the wider energy transition, University of Edinburgh.
- Published peer reviewed research on transport and infrastructure effects of renewable fuels.
- Former senior roles in engineering consultancy and infrastructure programme delivery.
- Chartered Engineer, Member of the Institution of Engineering and Technology, Member of the Energy Institute.
- Sector experience: Decarbonisation, utilities, subsurface engineering, transport, civil engineering, offshore energy, local government, infrastructure, Hydrogen.

Why work with me?

- Independent, objective and pragmatic advice based in clients' interests.
 - Focused on clear, technology-agnostic and decision-relevant outputs.
 - Cross sector perspective: Unique ability to connect technical engineering with financial, regulatory, and policy realities.
 - Academic rigour: Deep technical expertise backed by recent peer-reviewed and published research.
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Let's have an initial discussion to understand your key issues, and to explore where working together can add value - please do get in touch.

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