

PLANNING FOR A NET ZERO FUTURE



PLANNING FOR A SUSTAINABLE FUTURE

Renewable energy development is central to the UK's net zero ambitions, energy security, and long-term economic resilience. As demand for clean power accelerates, planning systems are under increasing pressure to balance rapid delivery with environmental protection, community needs, and regulatory compliance.

Arthian supports developers, investors, landowners, and local authorities through every stage of the planning process for renewable energy projects. By integrating planning, environmental, engineering, and sustainability expertise, we help unlock consentable, resilient schemes that stand up to scrutiny and deliver long-term value.



ARTHIAN'S RENEWABLE ENERGY PLANNING SERVICES

We provide end-to-end planning support tailored to the scale, complexity, and risk profile of each project.

Our core planning services include:

- Site identification and feasibility appraisal
- Planning strategy and consenting route advice
- Pre-application engagement with local authorities and statutory consultees
- Environmental Impact Assessment (EIA) screening and coordination
- Planning application preparation and submission
- Environmental statements, technical reports, and drawings
- Stakeholder and community engagement support
- Planning condition negotiation and discharge
- Appeal support and expert witness services



CLEANER, FASTER RENEWABLE DELIVERY

Turning complex renewable schemes into consentable, buildable projects.



OUR PLANNING SERVICES

We provide strategic, evidence-led planning support across solar, wind, and battery energy storage developments, balancing technical requirements with environmental, policy, and community considerations. By navigating constraints, shaping clear planning pathways, and de-risking each stage of the process, we help deliver efficient, consentable renewable energy projects that strengthen the transition to a low-carbon future.

PLANNING FOR SOLAR ENERGY DEVELOPMENTS



We help our clients navigate complexity with confidence — turning renewable energy ambition into consented, deliverable schemes.

Our team shapes robust planning strategies that optimise site potential while addressing landscape, heritage, ecology, and community considerations. We navigate evolving policy, grid and land challenges, and stakeholder expectations to ensure solar schemes progress smoothly from early feasibility to application and delivery. The result is well-designed, resilient solar projects that maximise renewable generation and minimise planning risk.

PLANNING FOR WIND ENERGY DEVELOPMENTS



Planning for wind energy developments demands a strategic, multidisciplinary approach that brings together site suitability, environmental assessment, and a clear understanding of policy and regulatory expectations.

Our team develops robust planning pathways that balance energy yield, landscape and visual impact, heritage, ecology, and community considerations to create consentable, well-designed schemes. We manage complex constraints, grid and land challenges, and stakeholder engagement to keep projects moving efficiently from feasibility through to determination. The result is resilient, deliverable wind projects that maximise generation potential while minimising planning risk.

PLANNING FOR BESS ENERGY DEVELOPMENTS



Planning for BESS developments requires a precise, evidence-driven approach that integrates technical, environmental, and community considerations from the outset.

Our team shapes strategic planning pathways that address site suitability, grid connection, landscape and heritage sensitivities, noise, fire safety, and wider environmental impacts. We guide projects through evolving policy, local authority expectations, and stakeholder engagement to reduce uncertainty and smooth the route to consent. The result is well-designed, compliant BESS schemes that enhance grid resilience and support the efficient delivery of renewable energy infrastructure.

UNLOCKING SITES, SMOOTHING RISKS, AND POWERING UP THE ENERGY TRANSITION.

SHAPING ENERGY PROJECTS THAT WORK FOR INVESTORS, REGULATORS, AND COMMUNITIES

We shape energy projects that work for investors, regulators, and communities by building planning strategies that unlock value, reduce uncertainty, and accelerate delivery.

Our approach brings commercial clarity to the forefront—identifying opportunities to maximise site potential, strengthen financial viability, and streamline the route to consent. We combine rigorous evidence, sector-leading technical insight, and proactive stakeholder engagement to

anticipate issues early and resolve them before they impact programme or cost. By aligning project design with policy expectations, environmental requirements, and community priorities, we create schemes that earn trust, gain support, and withstand scrutiny. The result is renewable infrastructure that progresses with confidence, delivers long-term resilience, and supports the wider transition to a low-carbon, secure energy system.

PLANNING FOR SOLAR FARMS

Solar developments benefit from relatively streamlined planning routes compared to other energy infrastructure, but successful consent still depends on robust site selection, proportionate assessment, and clear alignment with planning policy. Arthian supports solar schemes from early feasibility through to post-consent delivery, ensuring proposals are environmentally responsible, commercially viable, and publicly defensible.

PLANNING CONSIDERATIONS FOR SOLAR FARMS

Key planning considerations for solar farms:

Demonstrating appropriate site selection and avoidance of sensitive constraints

- Protecting best and most versatile agricultural land while supporting food security
- Minimising landscape and visual effects through layout, screening, and design
- Delivering measurable biodiversity enhancements alongside energy generation
- Evidencing reversibility and long-term site restoration

Arthian's integrated approach ensures solar developments are designed to respond to local context while meeting national energy objectives.



1 STRATEGIC SITE IDENTIFICATION AND PLANNING RISK APPRAISAL

We assess site opportunities and constraints early to pinpoint viable locations and minimise planning risk from the outset.

2 REVIEW OF NATIONAL AND LOCAL PLANNING POLICY FOR SOLAR DEVELOPMENT

We interpret national and local policy to provide clear guidance on compliance, opportunities, and potential barriers for solar schemes.

3 AGRICULTURAL LAND CLASSIFICATION (ALC) SURVEYS AND LAND USE JUSTIFICATION

We undertake ALC surveys and prepare robust land use justifications to demonstrate sustainable, defensible site selection.

4 LANDSCAPE AND VISUAL IMPACT ASSESSMENT (LVIA) COORDINATION:

We coordinate LVIA's to shape sensitive, policy-aligned designs that respond to landscape character and visual receptors.

5 ECOLOGY SURVEYS, HABITAT MANAGEMENT, AND BIODIVERSITY NET GAIN (BNG) STRATEGIES

We lead ecology inputs and develop practical BNG strategies that protect habitats and deliver measurable environmental enhancements.

6 FLOOD RISK ASSESSMENT, DRAINAGE STRATEGY, AND WATER ENVIRONMENT INPUTS

We provide integrated flood risk and drainage assessments that safeguard the site, surrounding land, and water environment.

7 GLINT AND GLARE ASSESSMENT FOR AVIATION, HIGHWAYS, AND RESIDENTIAL RECEPTORS

We manage glint and glare evaluations to ensure solar arrays do not adversely affect aviation, transport networks, or nearby homes.

8 GRID CONNECTION ROUTING, SUBSTATION SITING, AND ACCESS PLANNING

We advise on efficient grid routing, substation locations, and access strategies that support deliverability and minimise environmental impacts.

OUR SOLAR PANEL SUPPORT TYPICALLY COVERS:

9 CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLANS (CEMP)

We prepare CEMPs that set clear environmental controls to safeguard communities and sensitive receptors during construction.

10 TEMPORARY LAND USE, REVERSIBILITY, AND DECOMMISSIONING STRATEGIES

We set out credible, policy-aligned decommissioning and land restoration strategies that demonstrate the temporary and reversible nature of solar development.



PLANNING FOR WIND FARMS

PLANNING FOR THE WINDS OF CHANGE

Wind energy projects are among the most scrutinised forms of renewable development, often requiring careful navigation of policy, landscape sensitivity, and community concerns. Arthian provides clear, evidence-led planning strategies that address risk early and support robust decision-making for onshore wind schemes.



KEY PLANNING CONSIDERATIONS FOR WIND FARMS:

Key planning considerations for wind farms:

- Landscape character and visual sensitivity at local and cumulative scales
- Protection of residential amenity through appropriate siting and design
- Managing cumulative impacts with existing and consented turbines
- Demonstrating policy compliance and public benefit
- Building community understanding and support through transparent engagement

Arthian combines technical rigour with pragmatic planning insight to help wind energy projects progress through complex consenting environments.



Our wind farm planning services include:

- Site selection informed by wind resource, constraints, and planning policy
- Detailed appraisal of national, regional, and local policy frameworks
- Coordination of Landscape and Visual Impact Assessment (LVIA) and cumulative assessment
- Noise assessment, shadow flicker analysis, and residential amenity appraisal
- Ecology, ornithology, and protected species survey coordination
- Aviation, radar, telecoms, and safeguarding consultation
- Access design, abnormal load routing, and construction logistics planning
- Community consultation, stakeholder engagement, and public exhibitions
- Planning application submission, determination support, and appeal representation



PLANNING FOR BATTERY ENERGY STORAGE SYSTEMS (BESS)

Battery Energy Storage Systems play a critical role in stabilising the electricity network, enabling renewable generation, and supporting the transition to a low-carbon energy system. While often compact in scale, BESS developments introduce unique planning, safety, and environmental considerations that require specialist understanding.

PLANNING CONSIDERATIONS FOR BESS

Key planning considerations for BESS projects:

- Managing fire risk, emergency access, and response arrangements
- Ensuring appropriate separation from sensitive receptors
- Integrating infrastructure within existing energy and industrial landscapes
- Demonstrating policy support for grid resilience and net zero delivery
- Addressing public perception through clear, evidence-based communication

Arthian's experience across energy, safety, and environmental disciplines allows us to deliver planning strategies that enable BESS projects to proceed with confidence.



1 SITE SELECTION AND PLANNING FEASIBILITY FOR STANDALONE AND CO-LOCATED SCHEMES

Identifying suitable land and assessing technical, environmental, and grid connection feasibility for BESS projects, whether independent or paired with renewables. Identifying suitable land and assessing technical, environmental, and grid connection feasibility for BESS projects, whether independent or paired with renewables

2 PLANNING STRATEGY DEVELOPMENT FOR GRID-SCALE ENERGY STORAGE

Designing a roadmap that aligns BESS deployment with local planning policies, grid requirements, and long-term energy goals.

3 FIRE SAFETY STRATEGY DEVELOPMENT AND LIAISON WITH FIRE AUTHORITIES

Establishing robust fire prevention and response measures for BESS facilities in collaboration with local fire services.

4 DSEAR, HAZARDOUS AREA, AND OPERATIONAL RISK ASSESSMENT COORDINATION

Ensuring compliance with Dangerous Substances and Explosive Atmospheres Regulations by evaluating risks from batteries and associated equipment.

5 NOISE ASSESSMENT FOR OPERATIONAL AND COOLING PLANT

Measuring and mitigating noise impacts from inverters, transformers, and cooling systems to protect nearby communities.

6 LANDSCAPE, TOWNSCAPE, AND VISUAL IMPACT INPUT PROPORTIONATE TO SCALE

Evaluating how BESS infrastructure affects local scenery and proposing design or screening solutions to minimize visual intrusion.

7 ENVIRONMENTAL PERMITTING AND REGULATORY COMPLIANCE ADVICE

Guiding projects through environmental permits and ensuring adherence to national and local regulatory frameworks.

8 CONSTRUCTION AND OPERATIONAL MANAGEMENT PLANNING

Developing strategies to manage construction impacts, logistics, and long-term operational performance of BESS sites.

9 DECOMMISSIONING, REPOWERING, AND LIFECYCLE PLANNING ADVICE

Planning for safe end-of-life dismantling, potential upgrades, and sustainable reuse or recycling of battery components.

COMMON PLANNING RISKS AND HOW THE ARTHIAN TEAM MITIGATES THEM



Renewable energy projects often encounter recurring planning challenges. Arthian identifies and addresses these early to reduce delay and uncertainty.

Common risks:

- Landscape and visual impact objections
- Ecology constraints and protected species
- Noise and amenity concerns
- Grid connection and access limitations
- Policy conflict or interpretation risk
- Community opposition and misinformation

Our mitigation approach:

- Early constraint mapping and site optimisation
- Iterative design informed by technical assessments
- Proportionate, evidence-led reporting
- Clear justification against planning policy
- Transparent community engagement strategies
- Robust planning condition drafting and negotiation

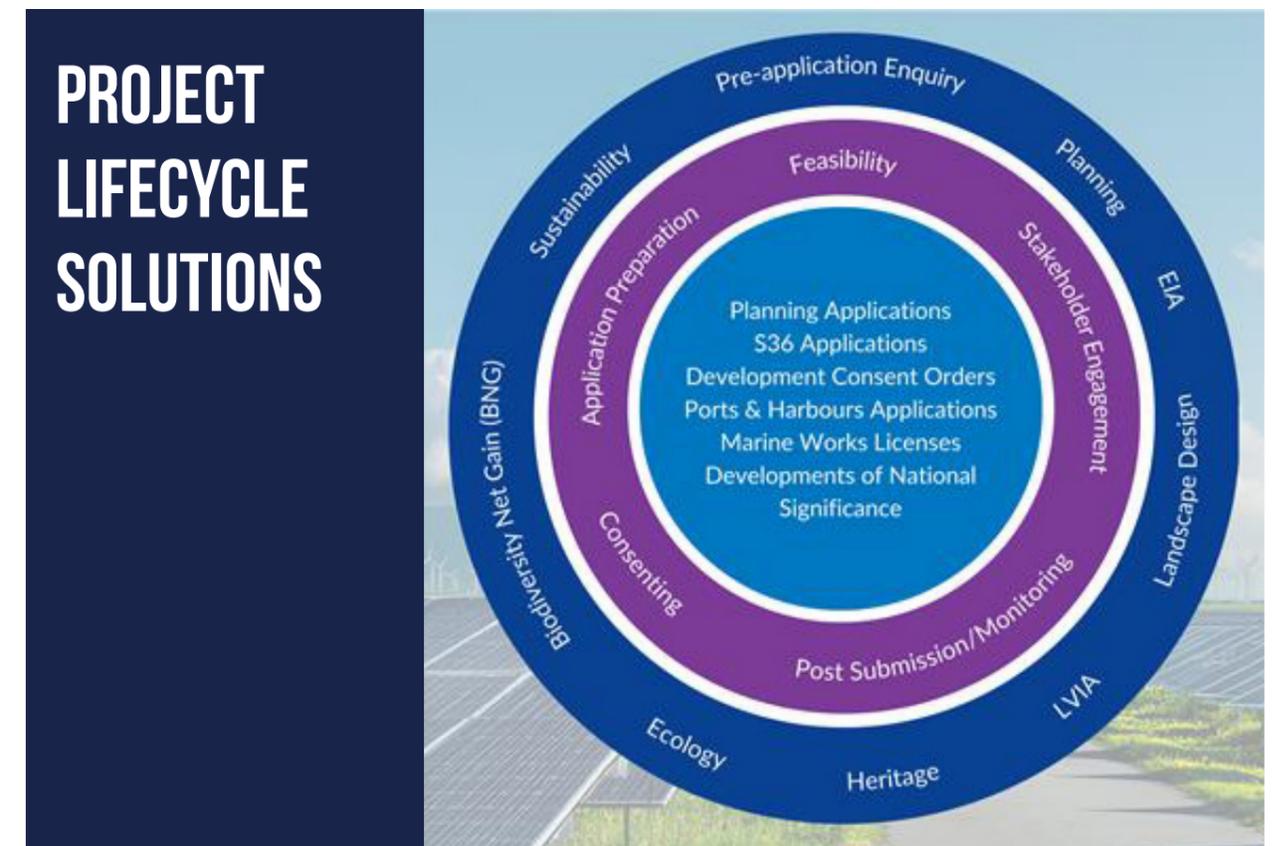
WHY CHOOSE THE ARTHIAN TEAM?

Arthian combines planning, environmental, engineering, and sustainability expertise within a single, integrated consultancy. This allows us to anticipate risks, streamline coordination, and deliver high-quality planning outcomes for renewable energy projects.

Our approach is defined by:

- Deep experience across solar, wind, and BESS developments
- A pragmatic, solutions-led planning mindset
- Strong relationships with planning authorities and consultees
- Technical credibility that stands up at appeal
- A commitment to delivering projects that support the transition to net zero

We help our clients navigate complexity with confidence, turning renewable energy ambition into consented, deliverable schemes.



SHAPED BY EXPERTISE, POWERED BY PEOPLE.

For more information, or to speak to a member of our team about your project, get in touch today at info@arthian.com.

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