Technical and regulatory compliance
Improving asset safety and reliability

Services

• Definition of obligations for your product
• Provision of practical compliance advice
• Document review, risk assessment and gap analysis
• Verification testing
• Training
• Consultancy concerning technical, safety and environmental compliance requirements for products.

Ensuring safe and legal products

Manufacturers of electronic, electrical and mechanical products and their supply chains are faced with ever-growing, complex, variable and onerous regulatory requirements.

These can directly impact product designs and drastically affect costs and delivery if not properly managed. Legal compliance and technical conformance with legislation, regulations, standards, codes of practice and guidance at regional, national, and supranational levels, are all necessary for the trouble-free introduction of products into the EU and around the world.

Edif ERA will advise you on how to comply with customer requirements and legal obligations. Edif ERA will assess your product and interpret the applicable legislation to your best advantage and guide you through the compliance procedure.

With practical knowledge and experience of a wide range of mechanical, electrical and electronic systems, Edif ERA provides a recognised pathway to compliance, using and enhancing your own procedures.

Edif ERA consultants have extensive practical knowledge and experience of the design, manufacture, installation, operation, maintenance, failure and repair of electrical equipment and systems.
Projects include:

- **High capacity battery manufacturer**: regulatory and technical compliance guidance and advice
- **Civil engineering contractor**: assessment of fitness for purpose of large flagship industrial lighting system
- **Multinational electrical products supplier**: definition of global compliance requirements for million-selling consumer IT product
- **Renewable energy system manufacturer**: assessing requirements for import of wind turbine system into the EU market.

Edif ERA’s consultancy services cover the following:

- Technical and safety-related EU Directives and Regulations (EMC, LV, Machinery, ATEX, etc) and similar requirements globally
- Conformity (CE Marking and technical documents)
- Safety in design
- Standards and best practice
- Environmental legislation (RoHS, REACH, batteries, ELV, WEEE, Ecodesign, conflict minerals, etc).

**Regulatory Compliance**

The regulatory environment is constantly changing, with many countries adopting new safety and associated legislation which often follows the EU or US, but with local variations in obligations.

Different markings (eg the CE Mark) are required in different regions around the world. The sheer volume and complexity of this legislation makes it very hard for an individual company to keep up with developments and the expectations of market surveillance authorities.

Edif ERA will guide you through this jungle enabling you to understand your obligations and how to meet them in a practical and effective manner, without excessive cost.

**Product Safety**

Product safety is not simply a matter of compliance with standards; this is only a starting point. Interpretation of regulations and application and adaptation of standards, guidance and other best practices are crucial elements in ensuring product safety.

Edif ERA staff have wide experience of these matters across mechanical, electrical and electronic products. We can deliver expert advice on your approach and work with you to develop the essential documentation you require to show due diligence.

**Experience**

In the context of equipment and systems, Edif ERA staff have a comprehensive understanding and experience of:

- Regulations and standards – how they can be used to advantage and not be a significant burden if applied appropriately and correctly
- Design – decisions and practical choices; the importance of specifications, tolerances and resilience; budgetary and time constraints
- Manufacture – organisation, administration and control of consistency and quality, control of supply, suppliers and budgets
- Installation, operation, maintenance – operations and procedures, risk assessment, organisation, supervision, training and motivation of staff
- Failure investigations and repair.

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