

Electromagnetic Transient (EMT) Studies

Capability Statement



Electromagnetic Transient Studies

Safeguarding your power systems against electromagnetic transients

As specialists in EMT and other power system studies, we provide tailored solutions that guarantee optimal performance and enhanced safety for your electrical assets.

Our Expertise

At Engineering Power Solutions (EPS), our power system consultants leverage advanced software, such as PSCAD, to analyse fast transients, insulation coordination, sub-synchronous resonance (SSR), and more. We have a strong track record of delivering strategic and technical solutions for:

- HVDC
- SVC
- FACTS
- Wind Farm Integration

We also have extensive experience using ETAP and DlgSILENT to perform load flow, transient stability, and fault analysis.

EMT Simulations

- Insulation Coordination Studies
- Surge Arrestor Modelling
- Ferro-resonance
- Switching Overvoltage Studies
- Lightning Overvoltage Studies
- Sub-Synchronous Resonance (SSR) Studies
- Transformer Energisation Studies
- Transient Recovery Voltage (TRV)
- Rate of Rise of Recovery Voltage (RRRV) Assessments
- Fault Analysis
- Circuit Breaker Current Interruption Capability



Contact Us:

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About EPS

A UK-based electrical engineering and design consultancy that delivers high-performance, cost-effective technical services to our clients.

With over 100 years combined experience, we help you harness the full potential of your electrical infrastructure. We provide innovative electrical engineering solutions, tailored to the specific needs of each industry, including:

- Transmission & Distribution
- Renewables (Onshore & Offshore)
- Offshore Oil & Gas
- Battery Energy Storage Systems (BESS)
- Manufacturing & Process
- Petrochemicals & Pharmaceuticals



Start a Project with EPS Today

Ensure smooth operations and safeguard your projects with EPS.

Why partner with us?

- ✓ Tailored solutions with a collaborative approach.
- ✓ ISO 9001 & ISO 45001 certified
- ✓ Proven impact with over 550 projects delivered across 9 core sectors & industries.

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