



Design review of EHV Transformer & Shunt Reactors

Design Review (DR) of Transformer & Reactors

References: CIGRE TB 529:2013 | CIGRE TB 204:2002 | CEA Standards

DR Objectives

- Ensure clear understanding of technical requirements
- Verify product functionality meets specifications
- Identify design flaws before manufacturing
- Assess design margins over guaranteed performance
- Recommend improvements & design changes

JS TrafoEnergy Expertise

Electrical & Mechanical design evaluation
IEC/IS Standards compliance
Quality & manufacturing review
Performance & remnant life assessment
Cost optimization recommendations

Our Process

Comprehensive design review using proven templates.

We ensure confidentiality & sign NDA agreements.

Deliverable report covers all topics, betterment suggestions, & Expert recommendations.

We can assist with external simulations if required.

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Design review topics as per CIGRE

Purchaser specification

Supplier quotation

Applicable standards

System data

All Plans

Environment data

Transformer design

Ancillaries and accessories

Fabrication

Testing

Transportation

Erection and commissioning

Health and safety

Why Choose JS TrafoEnergy?

- ✓ **37+ years** of Experience in Transformer Engineering
- ✓ **Unbiased** evaluation, free of manufacturer influence
- ✓ Consultant exposure to **multiple technologies**
- ✓ **Cost insights** of material & operational expenses
- ✓ **Site compliant** closure experience across globally

Focused topics are

1. Magnetic Circuit (no-load loss, current, Bm, noise)
2. Windings and Insulation (Dielectric, eddy loss, thermal)
3. Impedance and Losses (Load loss, Stray loss, I²R loss)
4. Thermal Performance (Oil, winding, core etc.,)
5. Short Circuit Withstand (Windings, active parts)

For further details, please contact

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