



PSSE-PSCAD BENCHMARKING SERVICES

RLC Engineering provides comprehensive PSSE–PSCAD benchmarking services to ensure inverter-based resources (IBRs) and other power electronic facilities meet ISO-NE and NYISO dynamic model requirements. With increasing scrutiny on model accuracy, RLC leverages deep expertise in both PSSE and PSCAD platforms to deliver validated, site-specific models and benchmark reports ready for ISO submittal.

Our benchmarking process helps developers, OEMs, and consultants align project models with ISO expectations—minimizing study delays and ensuring smooth project interconnection approvals.

BENCHMARKING SCOPE INCLUDED:

- **Model Development**
Create site-specific PSSE and PSCAD models representing the exact inverter make, model, and control configuration.
- **Performance Evaluation**
Conduct prescribed ISO validation tests — ISO-NE PP5-6 Appendix C-2 and NYISO UG-28 — to assess model dynamic performance.
- **Model Tuning**
Adjust PSSE parameters to closely replicate PSCAD time-domain responses.
- **ISO Submittal Packages**
Prepare PSSE and PSCAD model files, documentation, and supporting materials for submission to ISO-NE or NYISO.
- **Comprehensive Reporting**
Deliver a detailed benchmarking report summarizing methodology, results, and model accuracy evaluations.

APPLICATIONS

Benchmarking is required for:

- Inverter-Based Resources (IBRs)
- Renewable Power Plants (Solar PV, Wind, BESS)
- Hybrid Facilities and Grid-Tied Power Electronic Systems



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