



IBR MODEL BENCHMARKING

CLIENT: Confidential

LOCATION: Multiple Locations

PROJECT DETAILS

RLC specializes in ensuring seamless integration of power projects into the energy grid. Our team provides advanced modeling and benchmarking services for developers' interconnection applications to Regional Transmission Owners (RTOs) and distribution utilities. Using industry-leading tools like PSSE, PSCAD, ASPEN, and PSLF, we conduct feasibility and system impact studies that ensure reliable grid performance.

With extensive expertise in power system modeling and simulation, RLC delivers high-fidelity technical data that meets rigorous industry standards. Our PSSE-PSCAD benchmarking process ensures model alignment by refining performance parameters, validating system responses, and accurately replicating real-world grid dynamics. These advanced techniques help developers navigate complex regulatory requirements while optimizing system performance and ensuring long-term grid stability.

SCOPE OF SERVICES

- Understand IBR PSSE and PSCAD modeling requirements in a particular utility and/or RTO.
- Understand IEEE standard 2800 and NERC EMT guidelines, and follow the most recent industry practice.
- Create the IBR facility PSSE and PSCAD model, verify they pass specific tests and align PSSE model performances with PSCAD.
- Collaborative efforts with the OEMs to respond to utility and RTO requests.
- Ensure the client has all the required technical data for the interconnection application.

PROJECT EXPERIENCE

- ISO-NE territory
- PJM territory
- Central Maine Power (Avangrid) territory
- UI (Avangrid) territory

Empowering Energy Solutions
for the future...today

