EdgeTunePower

HARDWARE-IN-THE-LOOP (HIL) Testing

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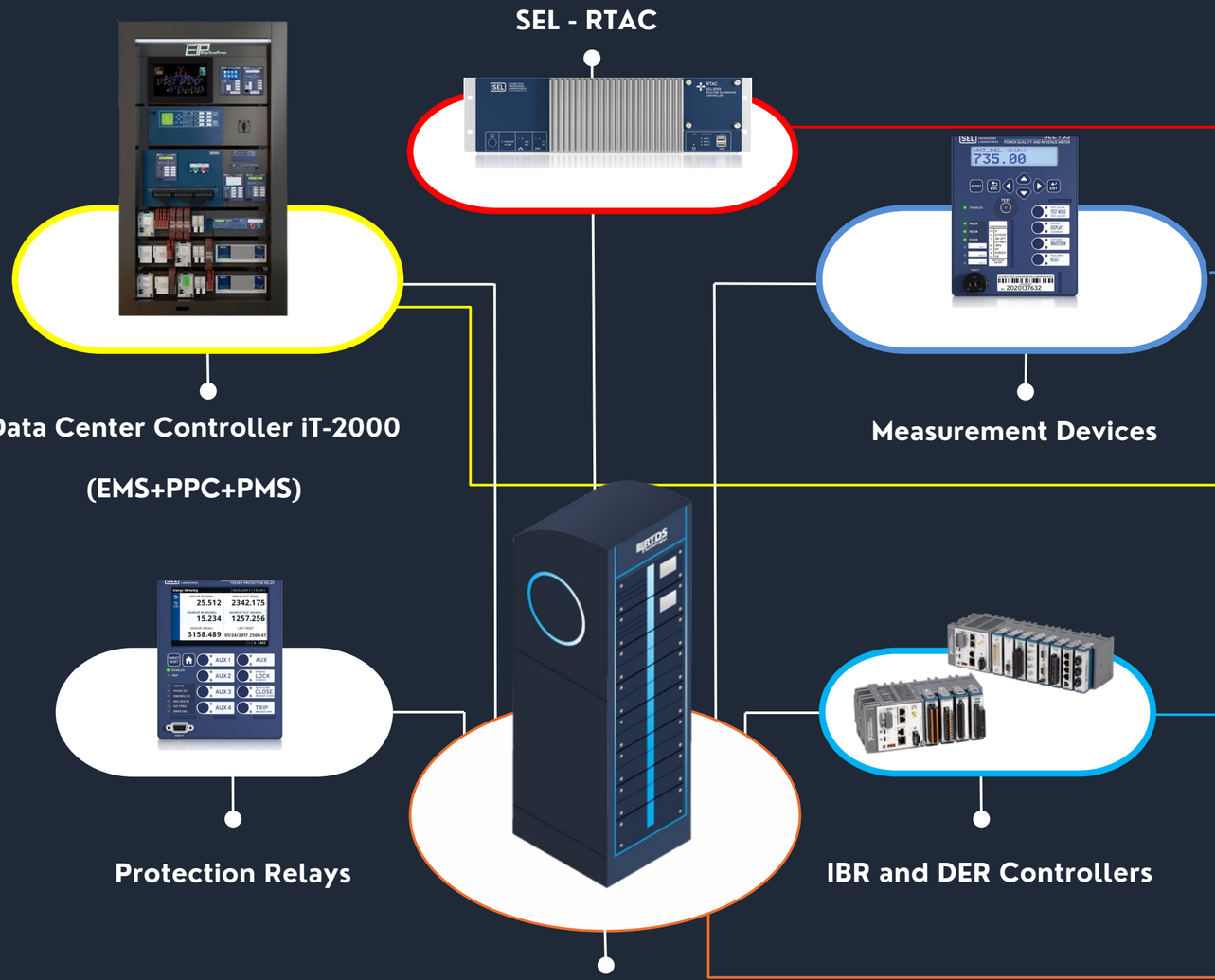
ETP HIL Testing Platform



Real-Time Simulator:

Detailed model of the power system, including IBRs, DERs, electrical machines, loads as well as transmission and distribution equipment is simulated in real time.

HIL Testing for Data Centres and Power Plants

Power-Plant-Controller (PPC) Performance Verification

Testing the Physical PPC to:

- Enable Smooth Commissioning
- Determine Communication Latency
- Identify Discrepancy Between Software (PSCAD & PSS/E) and Physical PPC
- Troubleshoot PPC Maloperation in the Lab Environment Rather than the Field

IBRs & DERs Performance Verification & Unit-Model-Validation

Testing the Physical Controller to:

- Ensure Matching Between the Physical Controller and Software Models (PSCAD & PSS/E)
- Identify Issues with Controller Firmware for Ride-through Performance and V-f support
- Ensure Reliable Communication Between IBR and DER Controllers and Master Controller (PPC)

Data Centre Performance Assurance

Real-time Simulation of Data Centre Digital Twin:

- Real-time Model of Gen-sets, UPS systems, Cooling Systems and AI Load Profiles
- Complete Representation of Communication Mediums Between Data Centre Master Controller (PMS-PPC) and IBR Controllers
- Performance Verification of GFM Technologies for Co-location with Data Centres

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CONTACT US

GET YOUR FREE DEMO TODAY AND EXPLORE OUR ENERGY SOLUTIONS!

Toronto: 2425 Matheson Blvd E 8th Floor, Mississauga, ON L4W 5K4 (REGUS), Room 817

Vancouver: 1021 Kennedy Avenue, North Vancouver, BC, V7R1L6, Canada

Laboratory: Unit 102, 1575 Pemberton Avenue, North Vancouver, BC, V7P2S3, Canada

info@edgetunepower.com
www.edgetunepower.com