



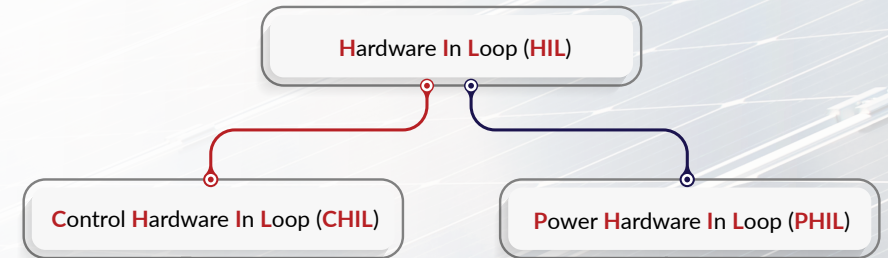
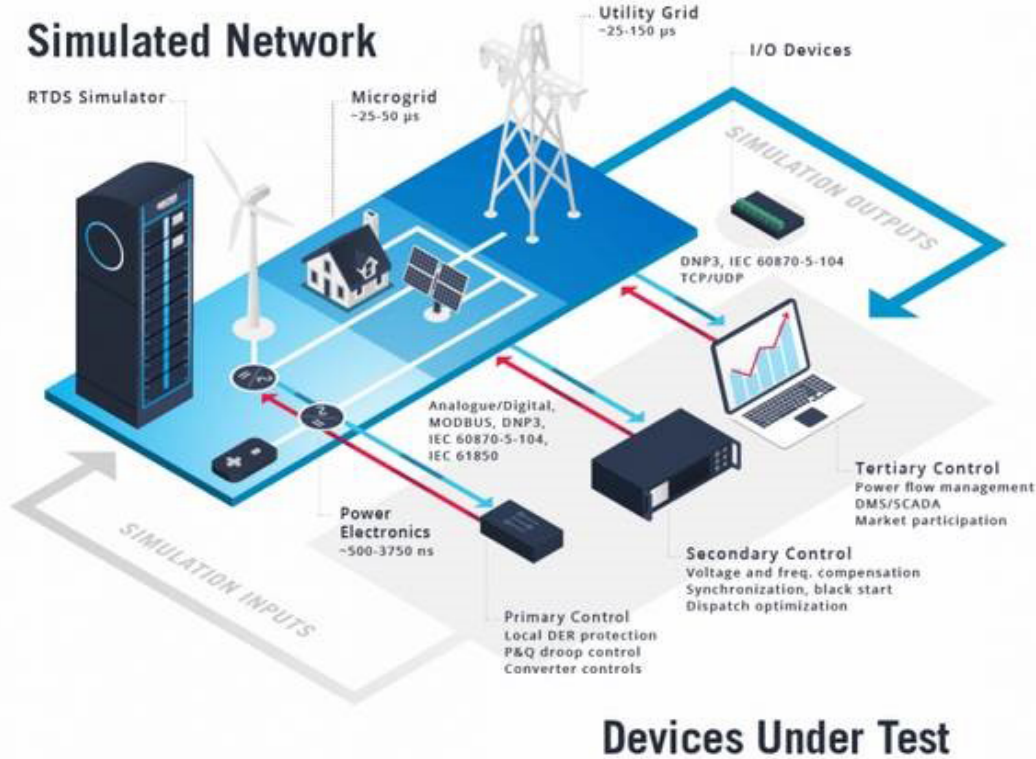
**NOR-CAL CONTROLS**  
ENERGY SOLUTIONS

# RTDS (Real Time Digital Simulator)

A CUSTOMIZED TEST RESULT AND REPORTING EXPERIENCE

Nor-Cal Controls offers a customized plant modeling solution based on unique site control requirements and design, for standalone PV or PV + BESS. This model utilizes PSCAD models loaded in the RTDS simulator providing high fidelity modeling of both site and grid. The simulator allows for HIL - CHIL and PHIL simulation.

RTDS is a real-time simulation with a closed-loop testing device that can run models developed in RSCAD, or PSCAD imported to RSCAD, and will simulate various conditions based on the LGIA/PPA, mode use cases, users input or site hardware and design choices.



## Advantages

A chance to thoroughly simulate the plant before commissioning, to showcase compliance and/or gain awareness of any potential complications.

Provides accurate PI gain values that can be predicted by using the PPC in CHIL within the plant models.

An opportunity to study the plant's response and its effects on the Grid as it behaves with other plants connected to the Grid prior to energization.

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**RTDS Offerings**

*Nor-Cal can validate compliance with IEEE 2800 standards*

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