

## EX2100\* Digital Front-End Controls-Only Upgrade

# fact sheet

Upgrade your plant's existing excitation control system to GE Energy's state-of-the-art EX2100\* system, in less time and at a lower cost than you may have thought possible.

The EX2100 Digital Front-End (DFE) is a controls-only retrofit package that enables customers with GE Energy's vintage, analog Busfed or Shunt SCR excitation systems to upgrade to the fully digital EX2100 platform at a fraction of the time and cost of a tradition excitation retrofit. By retaining existing power conversion bridges, customers can upgrade to a state-of-the-art control platform and protective functions, while meeting reliability, outage, and budgetary goals.

A dependable, high performance excitation control system is a key component of successful power plant operation – learn how the EX2100 DFE Controls-Only Upgrade may be your path to improved reliability and enhanced ROI.

The EX2100 DFE retrofit is more than just updated hardware. The system can be purchased with a set of engineered field installation instructions, providing a detailed survey of the unit, and a complete set of demolition and installation prints. The upgrade can also be purchased as a total scope installation, with GE Energy providing a single source for the entire project, enabling a turnkey, easy to manage upgrade.

### Benefits

- Scalable control system upgrade provides cost and operational flexibility
- Minimal hardware replacement to reduce installation time
- Simplified system configuration based on the Windows\* operating system
- Improved reliability with redundant control options
- Enhanced data capture and analysis tools
- Complete design engineering and retrofit services available
- Elimination of old circuit cards and power supplies
- Added features and protective functions:
  - autotracking regulators
  - PT failure throw-over
  - temperature biasing
  - volts per hertz limit
  - over excitation limit
  - under reactive ampear limit
  - under excitation limit
- New digital field ground detector which located field grounds on the AC and DC sides of the system



