MINIMIZING RISK OF UNPLANNED OUTAGES
As we all know, any unplanned outage is an expensive headache with significant costs. Ensuring plant availability is a key priority and it becomes very challenging especially when you are running obsolete and legacy Cycloconverter drives for Metal Rolling Mills, SAG mills, ball mills, cement plants, etc. If you are currently relying on legacy drive controls, obsolescence is a risk that cannot be ignored and can lead to extended unanticipated downtime in the event of a failure. To help you tackle obsolescence and save the time and expense of a complete system replacement, GE offers reliable and cost-effective retrofits for your Cycloconverter drive controls. This engineered retrofit will modernize your controls, data interfaces, substantially improve control capabilities, enhance performance and extend the life of your existing Cycloconverter. Remote monitoring, powerful diagnostics and self-test capability can make your system easy to maintain, thereby reducing maintenance costs.

THE GE ADVANTAGE
You can expect reliability from your drive application when you put your trust in GE as the Original Equipment manufacturer. As a full scale OEM with deep engineering expertise and fleet knowledge, we are your partner of choice for carrying out retrofits for legacy drive controls, which are near end of life. We are there when and where you need us with:
- A local presence globally
- 24/7 technical support
- Installation and commissioning services
- Field engineering services
- Preventive maintenance services
- Replacement parts and repair services
- Training services

CYCLOCONVERTER DRIVE CONTROL RETROFITS
GE’s exceptional drive services can help you get the most value possible out of your drive controls. The external control interface - GE’s P80i Control System toolbox is widely considered one of the best tools for configuring, troubleshooting and maintaining legacy drives and controls.

Benefits and Features
- Experts who fully understand your industry; match our drive features to meet your specific requirements
- Consistent and cost-effective project execution from start to finish
- Phased upgrades and uprates that fit your operating budget
- Improved process control resulting in lower operating expenses

So many reasons to Upgrade now!
- Extend the lifecycle of your existing drive systems and defer moving to the latest drive technology until the time is right
- Improved reliability through Industrial PC based control
- Enhanced control flexibility and drive performance
- Modern touchscreen controls, HMIs and multiple networks to simplify operations and integration with plant level controls
- Remote support via ViSoR, 24/7 technical support to resolve issues in the shortest time possible thereby helping you ensure minimum downtime

Cyclo-converter Retrofits
Extend the lifecycle of your legacy cycloconverters by retrofitting with GE’s Proven Drive Control
Cyclo-converter Retrofits
Proven Drive Control Technology

Power Electronics Controller (PECe)
- Standard industrial PC
- Intel based chipset VXWorks
- operating system IEC1131
- Compliant Function Block
- Deterministic Ethernet
- 5 x 10/100 Ethernet ports
- 1.2 to 2.5 GHz
- 60°C Ambient
- Fanless operation
- 2 or 4 PCI slots allows Profibus, Profinet, Reflective Memory, CANbus, Modbus, EGD, etc.

Power Interface Board (PIBe)
- 24 copper or 32 fiber optic outputs to power devices
  - 8 Digital inputs
  - 4 Digital outputs
  - 8 Analog inputs
  - 4 Analog outputs
  - 2 Current transformer inputs
- Capable of 60 V, 10 amp outputs to power devices
- 1 Encoder input

Field I/O
- Modular construction
- Digital inputs/outputs ... 24 VDC
- Analog inputs/outputs ... +/- 10 VDC
- Fast deterministic EtherCat interface from PECe

Touchscreen for operator control and maintenance
Replacing antiquated meters and pushbuttons with modern touchscreen controls will immediately improve your ability to operate and maintain your drive controls

P80i Toolbox – Drive Commissioning and Maintenance
High speed trending
- Unlimited signals per trending
- Up to 3000 samples per signal
- Limited only by PECe Memory capacity

Tool capabilities
- Configure trend (trigger, period, variables to be recorded)
- Trend can be set to be uploaded to a compact flash drive
- Upload records from the drive
- Display records in a trend
- Display “live” or “logged” data

CONTACT US: services.powerconversion@ge.com