

Mining



GE Digital Energy protects and connects the world's critical equipment to ensure safe, reliable power. A trusted global partner for mining companies, we offer a broad range of products and services for each step of the mining process. From providing secure communications throughout the mine, to protecting the electrical equipment required for loading, crushing, grinding and refining product, GE Digital Energy has the industrially hardened products to survive in the harsh mining environments.

Protection & Control

From the large horsepower MV motors used to process and move material, to the smaller LV motors used in secondary process applications in mid to final stages, Multilin motor protection offers advanced motor protection, powerful automation control logic, essential motor health diagnostics, and multiple embedded communications.



Industrial Communications

Whether it is the monitoring of gas levels, controlling ventilation fans, or providing live video, the industrially hardened Multilink switches manage the Ethernet LAN throughout a mine, by allowing high speed control and connection of IP video and IP air quality sensors. Our MDS line industrially hardened wireless communication devices allow secure and cost effective data acquisition from remote sensors, meters, alarms, and relays.



Power Quality

Zenith Paralleling Switchgear provides management and control of multiple on-site generators, to ensure proper startup and synchronization. These integrated systems combine digital and manual backup controls with metering and switching to ensure a continuous distribution of power.



Power Sensing

Accurate ITI sensing technology is at the heart of a mine's power system, providing reliable primary data from both LV and MV electrical networks. ITI products include accurate current and voltage transformers, test and control switches, lockout relays, three phase voltage monitors, ground fault detection systems, and power control components.



Monitoring & Diagnostics

We deliver a broad selection of transformer Asset Optimization tools from transformer monitoring and diagnostics to advanced prognostics and maintenance services. Using advance technology and proven modeling, we capture and analyze critical transformer data.



Transformers & Capacitors

The GE portfolio of capacitors, transformers and voltage regulators are designed, manufactured and tested to provide customers with flexible, reliable and advanced power delivery solutions. Our network transformers provide superior corrosion protection in harsh environments, using Reeves zinc-rich epoxy coating.



Digital Energy

GE Digital Energy Mining Solution

The specifics of mining operations differ greatly around the world, depending on region, resource being extracted, and mining method. Common to all mining applications, is the need a stable electrical and communications infrastructure that will survive in harsh mining environments, to protect and control processes, monitor assets, and ensure continuity of power. It is vital to ensure process uptime is not interrupted.

Electric motors are workhorses in the mining industry, from medium voltage drill, crusher, and grinder motors, to low voltage conveyor, fan, and pump motors. Multilin motor protection relays are suited to protect and control the full range of motor sizes.

Robust communications, both wireless for secure, cost-effective connectivity to widely spread assets, and wired to create high speed networks, is an essential part of mining processes.

GE Digital Energy's full portfolio of high technology products, shown in the example below, allow mine operators to maximize up time and optimize production.

