



How can you give new life to an older locomotive? GE - Transportation offers locomotive modernization solutions to lower life cycle costs, improve performance, and extend life.

Your existing locomotive can be modernized with our state-of-the-art BrightStar™ control system and GE's new or unit exchange OEM components. We can offer modernization packages that will provide benefits to locomotives from GE and others.

Applying and integrating GE's technology, our team focuses on a solution to achieve higher reliability while reducing operating costs, at a fraction of the cost of new power.

With our locomotive modernization program, you will have an affordable alternative for lowering life cycle costs while upgrading your locomotive fleet performance.

Locomotive Modernization



Locomotive Modernization

Performance Benefits

- Improved adhesion capability
- Increased tonnage capability (microprocessor controls)
- Enhanced traction capability (AC/DC conversions, improved traction motors)

Improved reliability and availability

- Consolidate circuits (eliminate transition, integrated controls)
- Replace obsolete components
- Onboard real-time diagnostics and self-test
- Durable, service-proven diesel engines

Improved life-cycle cost

- Catalyst for asset life extension
- Common components with new locomotives from GE
- Reduced fuel consumption
- Long overhaul cycles

Wheel slip responsiveness

- AC/DC and microprocessor controls (BrightStar™ control system)
- MicroSentry™ or voltage/current characteristic-based speed calculator

Equipment protection

- Traction motor thermal protection
- Propulsion high current and voltage protection
- Diesel engine cold/hot engine temperature and overspeed protection

Productivity Benefits

- Asset utilization
- Diagnostics and self-test capabilities
- Integrated solutions
- Power skid designs for ease of installation
- Drawings and installation instructions
- OEM engineering and technical support
- OEM training of railroad personnel
- OEM system level integration

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imagination at work