Developed using the combined engineering expertise of Progress Rail and Caterpillar, our EMD 4,500 BHP 1010™ engine achieves world-class fuel efficiency while meeting U.S. EPA Tier 4 emissions standards.

**Sustainability**
Meets EPA Tier 4 standards without urea after-treatment

**Engineered for Fuel Savings**
Meets Tier 4 emissions standards with world-class fuel efficiency

**Double-Walled Fuel Injection System**
Provides increased safety and simplified maintenance

**Two-Staged Turbocharging**
EMD turbos are custom designed to optimize locomotive performance across operating environments