



Diesel Particulate Filter (DPF) Systems

DPF systems are as very efficient in removing DPM.

- The remaining issues are related to:
- durability and reliability;
- regeneration;
- NO₂ slip;
- maintenance;
- safety...
- Improvements in fuel and lubricating oil quality, reductions in diesel emissions and integration of exhaust aftertreatment systems (incorporating DPFs) with engine systems should alleviate some of these issues.

Selective Catalyst Reduction (SCR) Systems

- Part of the exhaust aftertreatment system of some Tier 4i and Tier 4 engines.
- Offered as aftermarket products for retrofit applications.
- Require use of diesel exhaust fluid (DEF).
- In some applications, underground mining industry might benefit from used of SCR systems.



- Large manufacturers are addressing issues with supplying vehicles and equipment for global and local markets.
- Availability of equipment depend on the availability of OEM engine solutions, fuels, and lubricating oil for myriad of applications destined to different markets worldwide.
- Space is one of the major limiting factors in integration of exhaust aftertreatment technologies in UG mining equipment.
- The exhaust aftertreatment systems will substantially increase cost of the power packages and to some extent vehicles.
- In general, manufacturers are working with customers on providing optimized solutions for the specific applications.

