



# The Smarter Way of Using Fire Protection in Rolling Stock Applications – how innovative and active solutions could help to increase safety and to decrease costs

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**A**ctive Fire Protection is mostly a matter to be understood as additional measure on top, which is creating additional costs, additional weight and additional maintenance for the operators and is implemented only while required by guidelines, norms or other regulations.

But, if active Fire Protection is done in a smarter way of design, it could be a very helpful solution to optimize trains and locomotives in design, and could help also to influence a financial project balance in a very positive way by increasing safety in parallel.



Improving the fire safety and preserve the investment is possible with small initial economical efforts by use of active fire detection and fighting systems.

Today modern active fire protection systems can improve the general cost balance of a fleet of passenger trains and locomotives while giving the chance of an up to date fire protection concept also to old vehicles. Safety levels can be increased while the operational costs are decreased by minimizing breakdown times in case of incidents with fire.

A modern and rail-developed active fire protection system can help to reduce direct fire damage, breakdown times and costs and will increase the availability of the vehicles at fleet level.

The technological solutions adopted, the possibility of compensation measures and the economic feasibility of the implementation of those active systems are presented.

## **FOGTEC Fire Protection**

**FOGTEC** is German Company leader in the field of active fire protection systems for rolling stock applications. **FOGTEC** fire systems are specially developed for rolling stock and tailored to special vehicle requirements. **FOGTEC** Rail Systems is a single-source service provider and can equally integrate fire protection systems in existing vehicles or supply ready-for-use full solution as part of a turnkey project. With more than 12,000 fire protection systems we have supplied worldwide are evidence to the trust of our customers and the benefits of our systems in the rail industry. The fire detection systems and firefighting systems are used for the protection of passenger compartments, locomotives and diesel power packs throughout the world

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