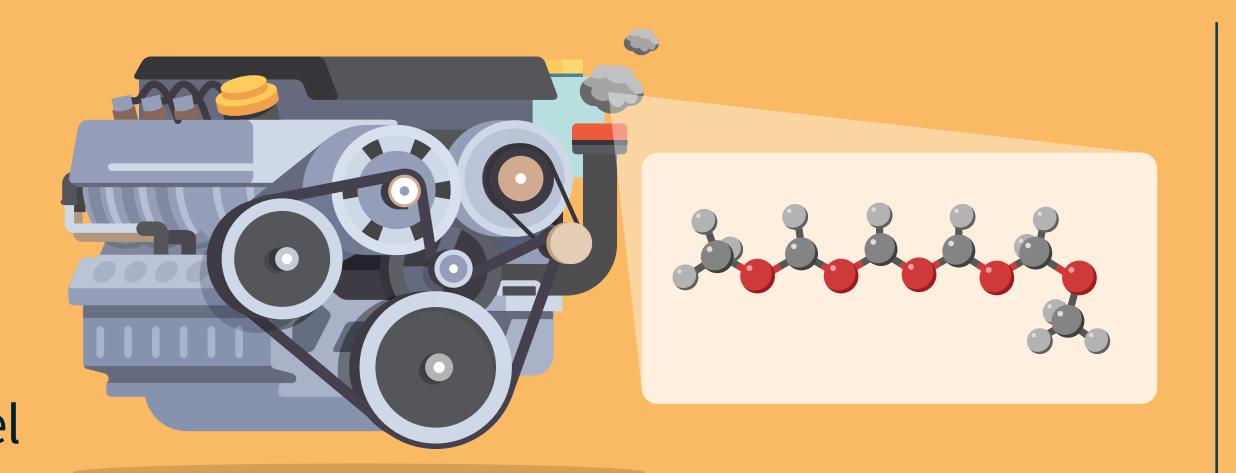
Investigating Nanoparticles Emission in OME-fueled Engines

Polyoxymethylene dimethyl ethers (OME), offering a soot-free combustion, are a cleaner and more sustainable alternative to fossil diesel fuel



Could nanoparticle emission in the exhaust of **OME-fueled engines** adversely affect the environment?

Investigation of particle size distribution in OME exhaust of a heavy-duty engine shows that



Particle emission mostly consists of volatile particles



Solid particle number (PN) emission is lower than Euro emission is lower than the VI recommendation even without particulate filter



OME-fueled engine PN average emission level of rural and urban Germany



Exhaust after-treatment removes both volatile and solid particles

Particle emission levels from OME-fueled engines are lower than those from diesel engines and mostly volatile

