

ADEM TECHNOLOGIES INC.

ADEM Technologies Inc., a leading innovator in Desulfurization Technology, specializing in catalyst and adsorbent solutions that can effectively reduce sulfur levels in all hydrocarbon fuels to less than 5ppm, without losing Octane. With a robust patent portfolio of 24 issued and 3 pending patents (US & Foreign), our cutting-edge products offer a cost-effective and scalable solution for refineries, chemical processing, and hydrogen production industries. Our catalytic adsorbent technology "ADESulfur" can be used for desulfurization of many feedstocks.

- ➤ No H₂S released, Metallic Catalytic sites
- > Regenerable multiple times
- ➤ Low Hydrogen requirement
- ➤ Works with ULSD, ULSG, Natural gas, Kerosene, Alky, Lube Oil, Pyrolysis Oil, etc
- ➤ Removes Sulfur to lowest levels, less than 5ppm.
- ➤ No Octane Loss. Low CapX and OpX setup
- > Tested and validated at customer sites





ADEM TECHNOLOGIES INC.

311 E LEE ST, LOUISVILLE, KY 40208 adem.louisville@gmail.com www.advancedenergymat.com

Fresh Diesel Feed – Single Pass Run					
Runs	Temp (°F)	Pres- sure (Psi)	Diesel Flow rate (GPM)	Sulfur In (ppm)	Sulfur Out (ppm)
1	659	200	1.33	270-300	8
2	660	200	1.33	270-300	5
3	661	200	1.33	270-300	4

Two week Pilot run data conducted in 2025 in a Texas refinery, processed 60 bbl/day. Customer moving into next phase of 2000 bbl/day implementation.