

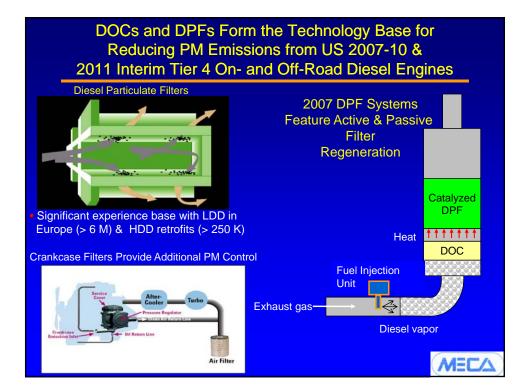
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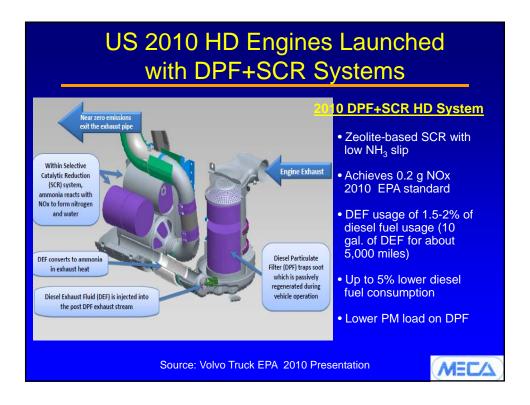
Diesel Retrofit Technology – What's Coming

- Marine DOC, CCV, PM & NOx Control Systems
- Locomotive DOC + SCR System
- On-Road DPF with Syn-Gas Regeneration
- On-Road and Off-road DPF + SCR Systems for EGR and non-EGR Engines
- Off-Road and On-road SCR-only Systems for EGR and non-EGR Engines
- On-road DPF, LNT + SCR system for EGR and non-EGR engines



U.S. Diesel Retrofit Technology MECA Sales Survey Results for '07, '08, '09					
		DPFs	Flow-thru Filters	DOCs	Crankcase Filters
CA	07	3,193	66	305	126
	08	5,390	3	164	22
	09	4,962	0	0	124
Rest of	07	5,174	411	11,881	5,625
U.S.	08	4,640	2,018	12,106	6,892
	09	3,329	2,435	11,906	6,424
Totals	07	8,367	477	12,186	5,751
	08	10,030	2,021	12,270	6,914
	09	8,291*	2,435	11,906	6,548
* 913 DPFs sold into off-road applications, 556 in CA					MECA





Clean Diesel Technology Challenges

- Ten years of progress, but still millions of legacy diesel engines operating across the U.S.
- Manufacturers continue to invest and expand the options available for reducing PM and NOx emissions from existing diesel engines.
- Incentives need to be expanded or re-invented to capture more of the health and climate change benefits of clean diesel technologies
- Technology verification continues to be an expensive, slow process that could benefit from more resources at both ARB and EPA. More needs to be done to harmonize verification requirements between these agencies.

MECA