

Diesel Programs











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EPA approach to diesel emissions

- Identify priority contributors
 - evidence based
- Priority locations and machines
 - population exposure
- Cost effectiveness of actions
- Strategies tailored for different sectors, for new and old engines
- Stakeholder consultation



Overseas approaches

- Non road diesel equipment standards
 - US, Canada, EU, Russia, Turkey, Japan, China, India, South Korea, Singapore, Brazil
- Locomotive standards US, EU
- Shipping emission control areas
 - Baltic Sea, North Sea, North America, US Caribbean
 - Additional controls at berth and at ports –
 California, EU, Hong Kong, Vancouver



Management of on-road diesel emissions

- National standards for new on-road vehicles
- NSW EPA and RMS
 - Smoky vehicle enforcement program, with app
 - Diesel retrofit programs for older vehicles
 - truck retrofit program (500+)
 - ports program
 - M5 Tunnel program (current)





Management of non-road diesel emissions









- No emission standards for diesel equipment in Australia (new or existing)
- NSW supports introducing national standards
- EPA examining diesel emissions across all sectors
 - options to reduce emissions and exposure



EPA Clean Machine Program

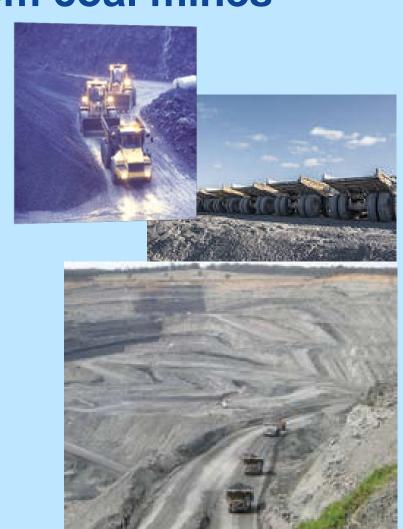
- 30 partners from local gov't and business
- 140 retrofits
- \$8 million in health benefits over 10 yrs
- Better procurement and worksite operations
- Clearing the air focus on equipment in major infrastructure projects





Diesel emissions from coal mines

- Similar to EPA 'Dust Stop'
- Survey of 64 licensed coal mines
- Review of best practice measures and economic analysis
- Consultation





Diesel Locomotives

- Industry developing standards freight locomotives
- EPA study on reducing emissions from locomotives (Environ, 2013)



80% of locos not meeting any US standards



Emissions from ports and shipping

- EPA report on emissions from ports in 2011
 - 80% of PM emissions in ports from shipping

(PAEHolmes, 2011)

 Community concern about impacts

