

APMT Driving Low Emissions



APM TERMINALS

www.apmterminals.com

POWER EQUIPMENT FUTURE NEEDS

- ESCALATING CONCERNS ABOUT EMISSIONS
- INCREASINGLY TIGHTER REGULATIONS
- SUSTAINABLE LONG TERM STRATEGY
- STRATEGY FOR ALL U.S. TERMINALS



EPA EMISSIONS OBJECTIVES

Reduce Particulate Matter (Smoke)

Reduce NOx

Reduce Sulfur



APM TERMINALS

www.apmterminals.com

EPA EMISSION STANDARDS

Off Highway

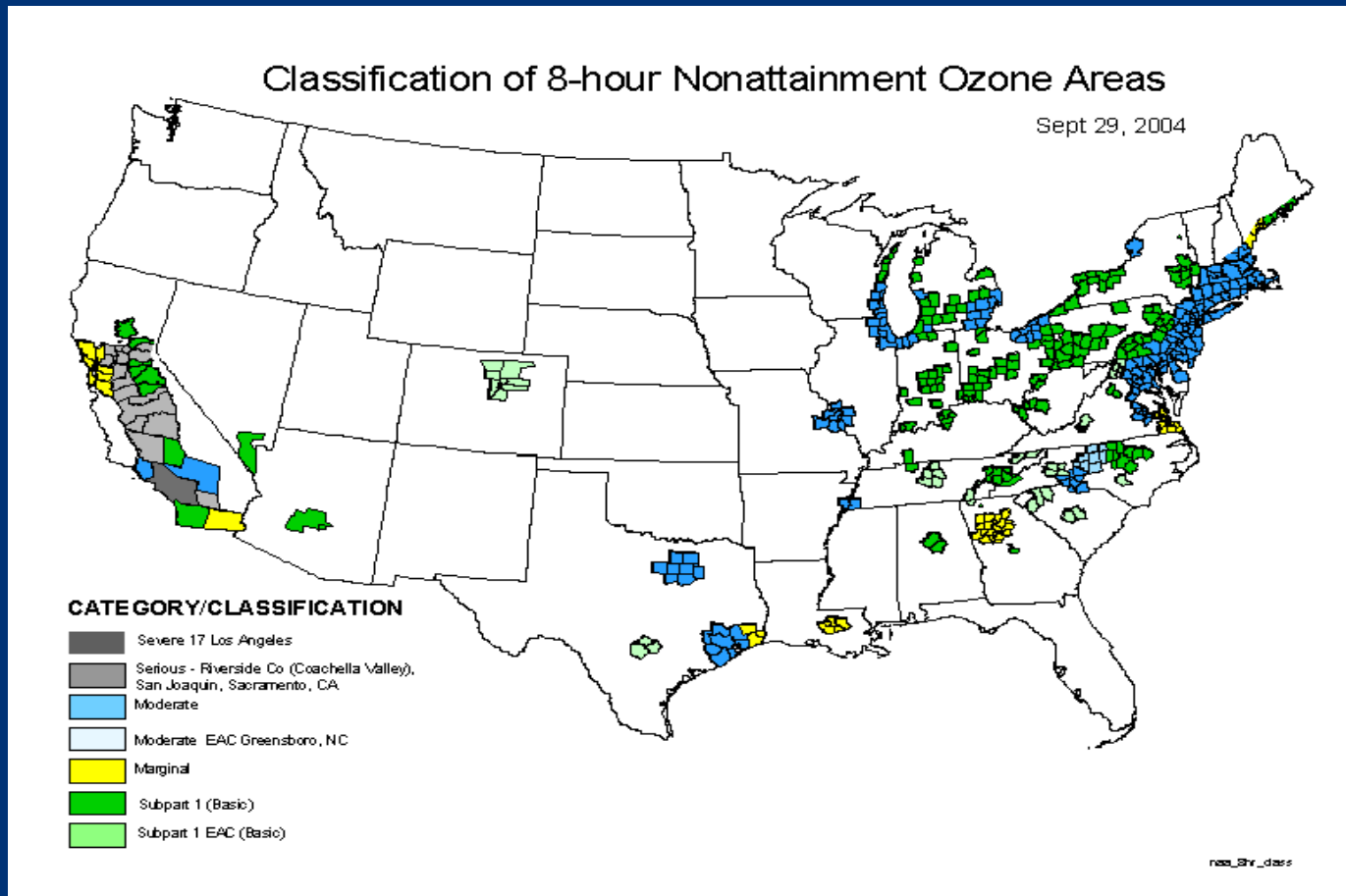
- All non Licensed Terminal Power
- Less Stringent than On Highway

On Highway

- Licensed Vehicles; Gas and Diesel
- Approx 3 years Ahead of Off Highway



8 Hr Ozone Nonattainment



APM TERMINALS

www.apmterminals.com

APMT
IS
CONTRIBUTING
TO
CLEANER AIR



APM TERMINALS

www.apmterminals.com

APMT EMISSIONS STRATEGY

- **REPLACE - NOT RETROFIT**
 - **NEW TECHNOLOGY MEETS EPA REGS**
 - **NEW TECHNOLOGY COST EFFECTIVE**
 - **TECHNOLOGIES INTEGRATED FOR BEST RESULTS**
 - **ELECTRONIC ENGINE SUPPORTS ADDITIONAL TECHNOLOGY**
- **BUY ON HIGHWAY ENGINES WHEN POSSIBLE**
 - **Higher EPA Ratings**
 - **Recommended by SCAQMD April 2004**
 - **Supported by NRDC August 2004**
- **EFFICIENT FUEL USE**
 - **IDLE SHUT DOWNS**
 - **ENGINE PROGRAMMED TO APMT NEEDS**
 - **INCREASE PRODUCTIVITY – DECREASED OPERATING HOURS**



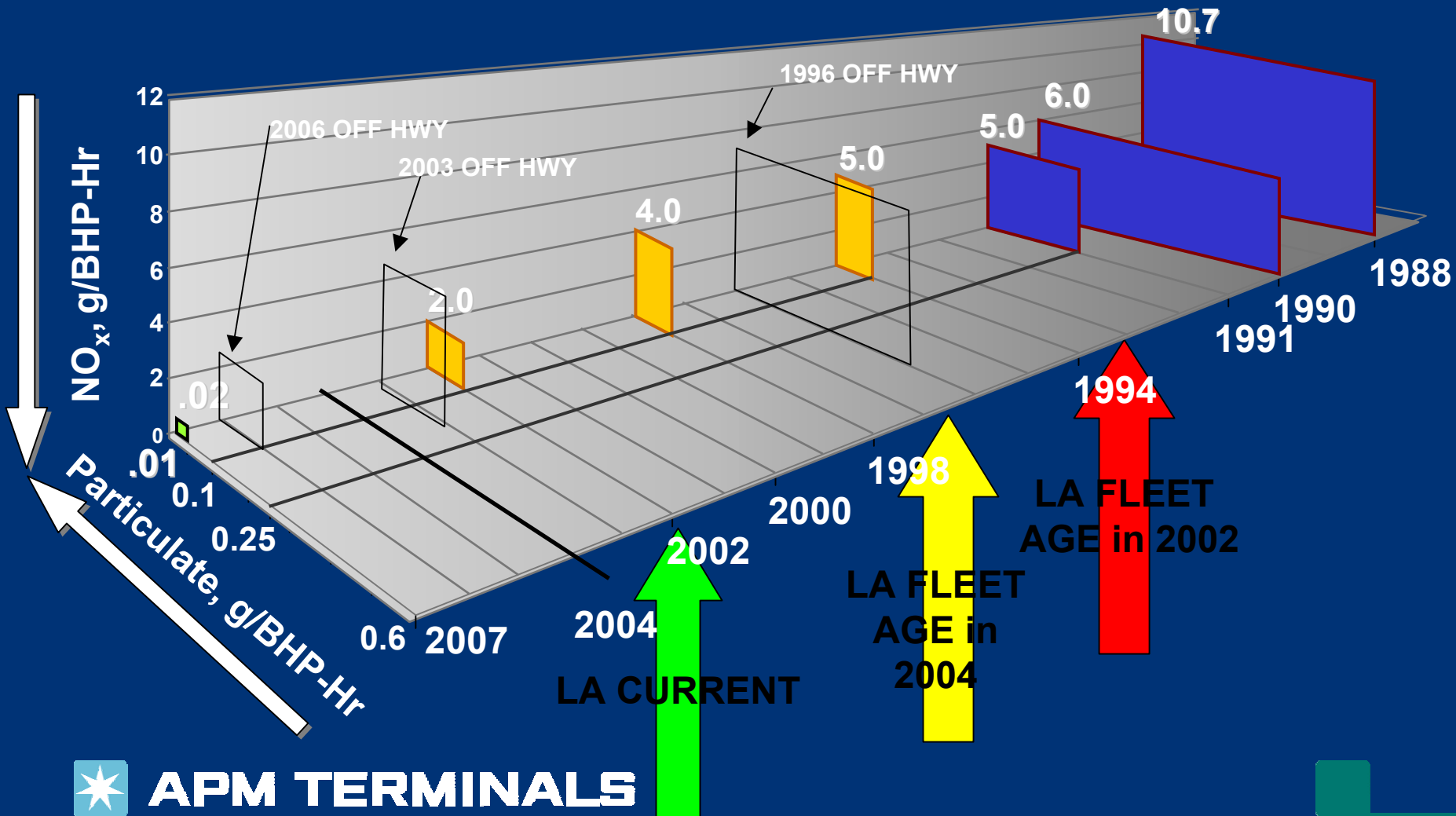
Driving Low Emissions



APM TERMINALS

www.apmterminals.com

APMT Pier 400 Low Diesel Emissions



APM TERMINALS

www.apmterminals.com

What about 2007 and Beyond?

Stable Engine Architecture

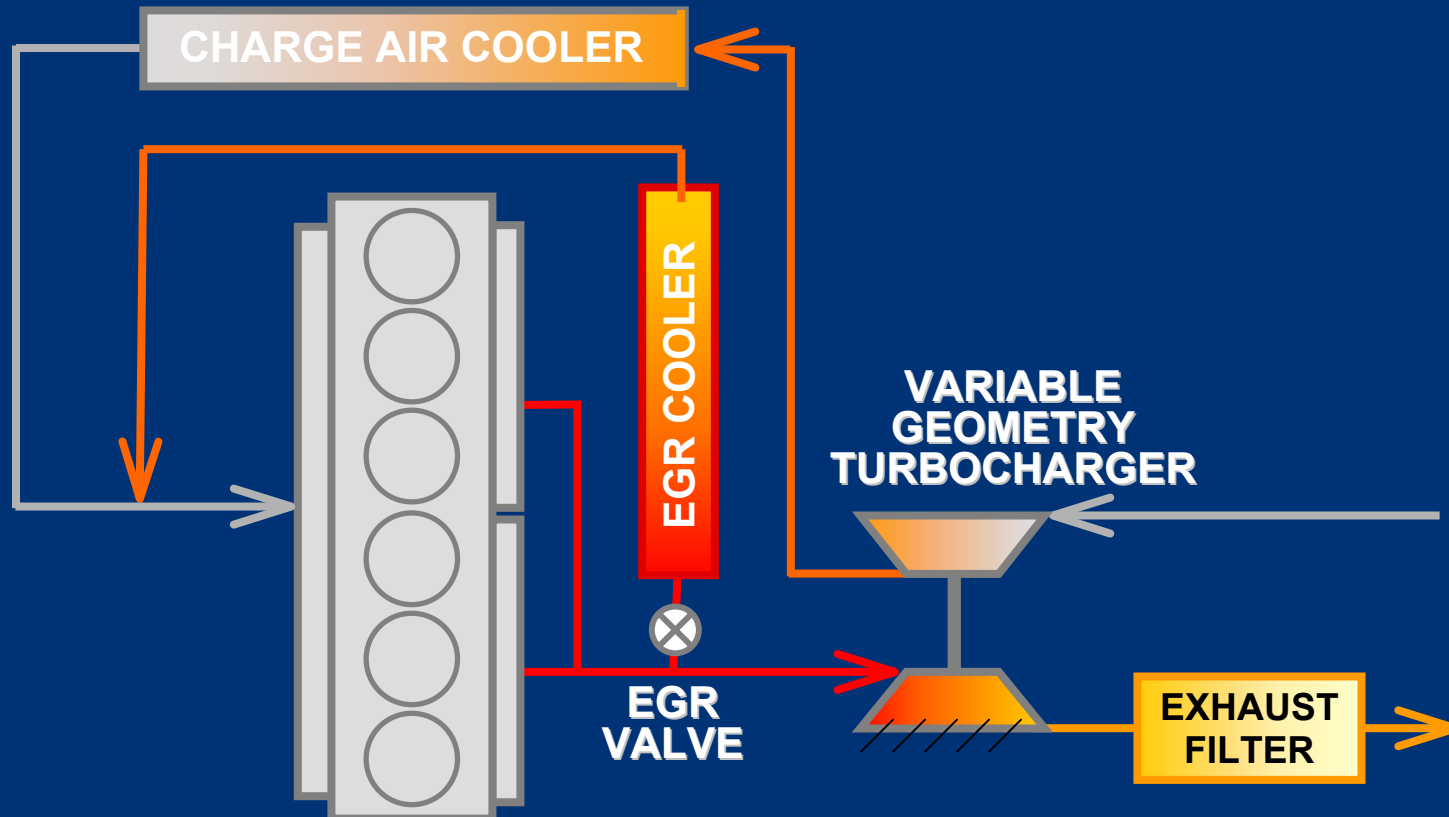
2002



2007



Exhaust Filter Only Change For 2007 On Highway Engine



Effect Of Fleet Renewal

- **More Efficient Power**
- **Safer Equipment**
- **Reduced Emissions**
- **Reduced Maintenance**
- **New Engine Design for Escalating Standards**
- **Enables Additional Technology**
 - **Tracking, Monitoring**
- **Maintenance Training Required**





**CLEAN
TERMINAL
GREEN
ENVIRONMENT**