



APMT Driving Low Emissions



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EMISSIONS OBJECTIVES

Reduce Particulate Matter (Smoke)

Reduce NOx

Reduce Sulfur

EPA EMISSION STANDARDS

Off Highway Category

- All non Licensed Terminal Power
- Less Stringent than On Highway
- (Represents 90+% of APMT Fleet)

On Highway Category

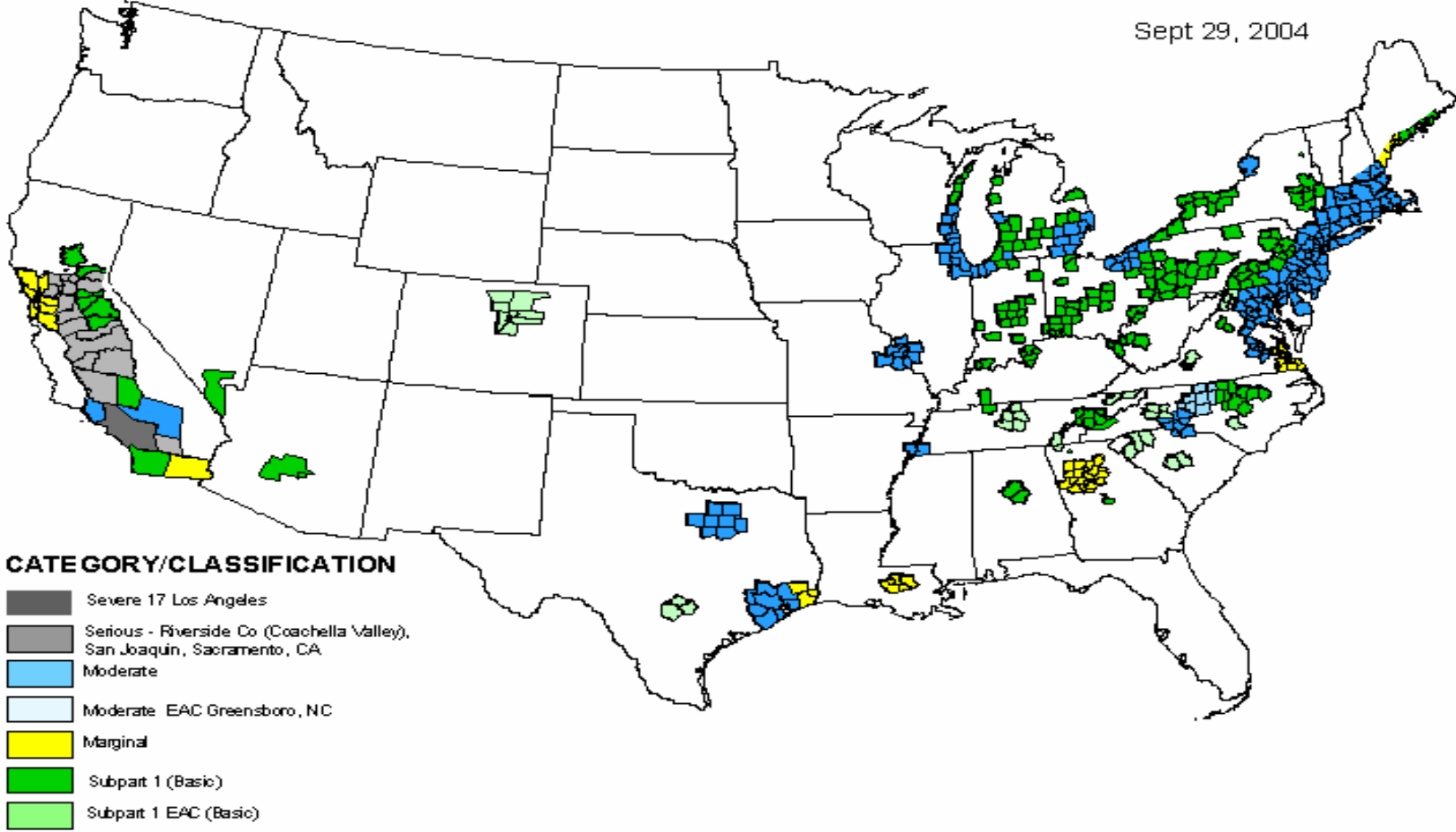
- Licensed Vehicles; Gas and Diesel
- Approx. 3 years Ahead of Off Highway



8 Hr Ozone Nonattainment

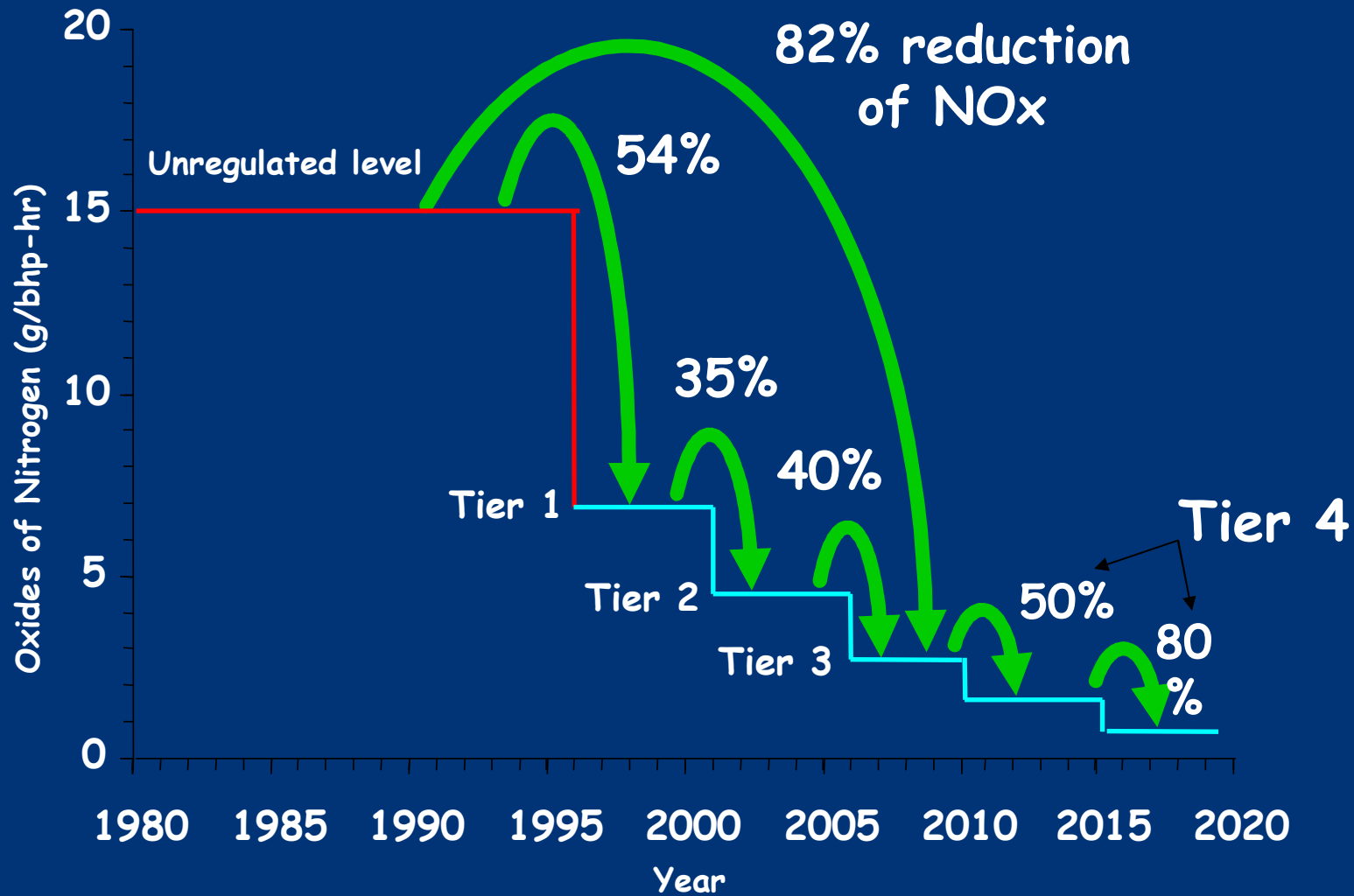
Classification of 8-hour Nonattainment Ozone Areas

Sept 29, 2004

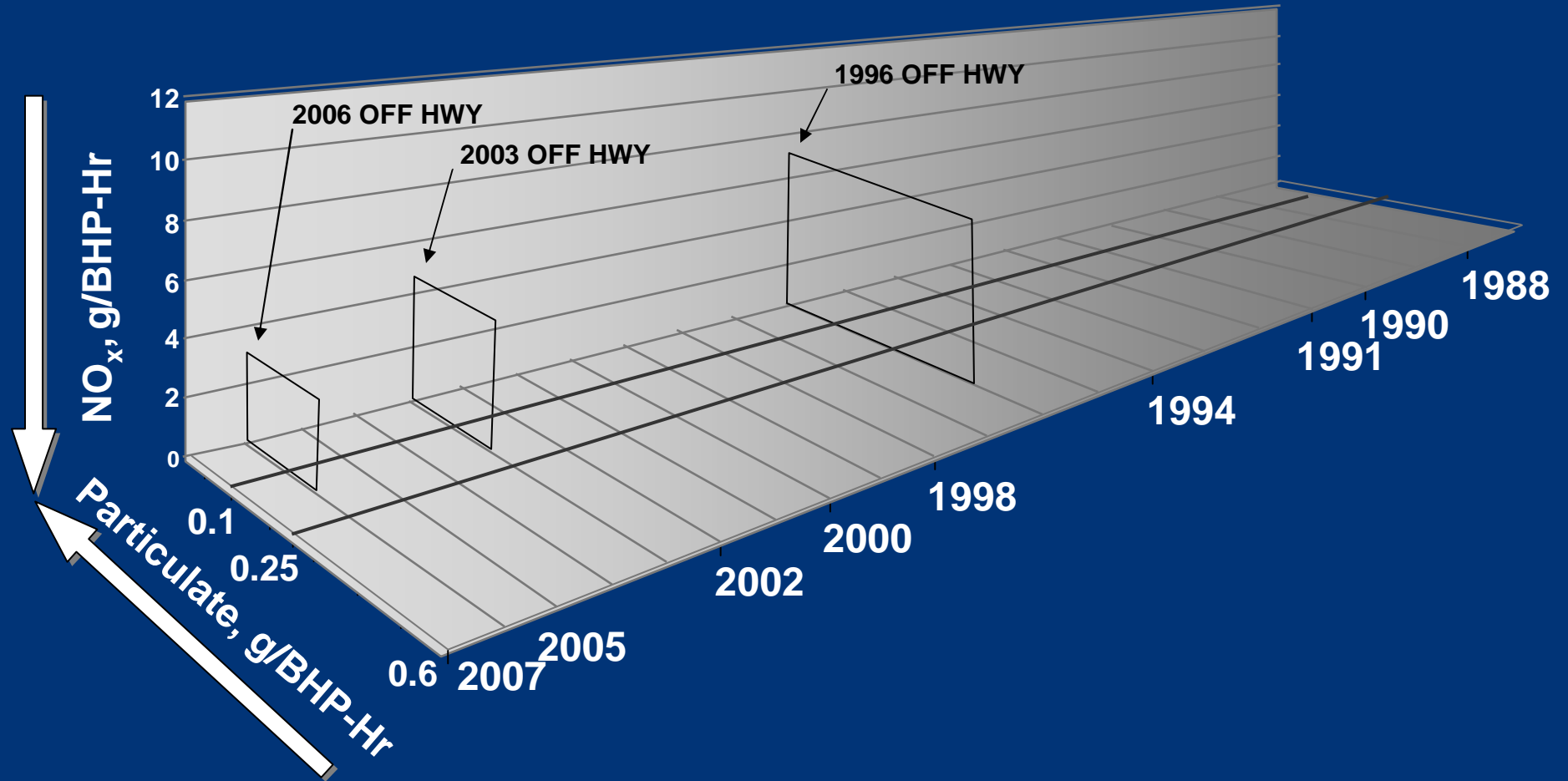


nea_8hr_class

Emission Standards for Mobile Off-Highway



APMT Tacoma Low Diesel Emissions

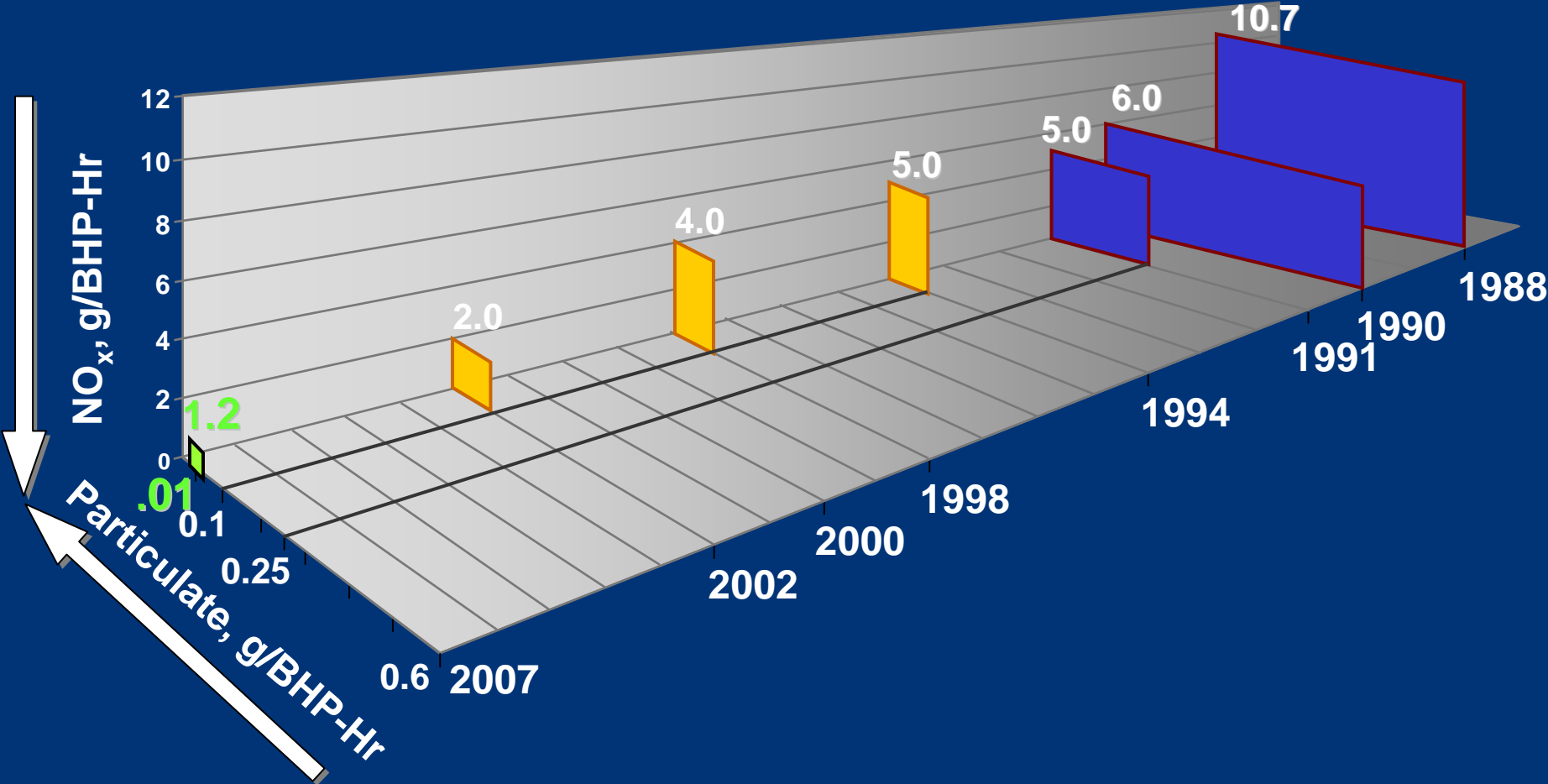


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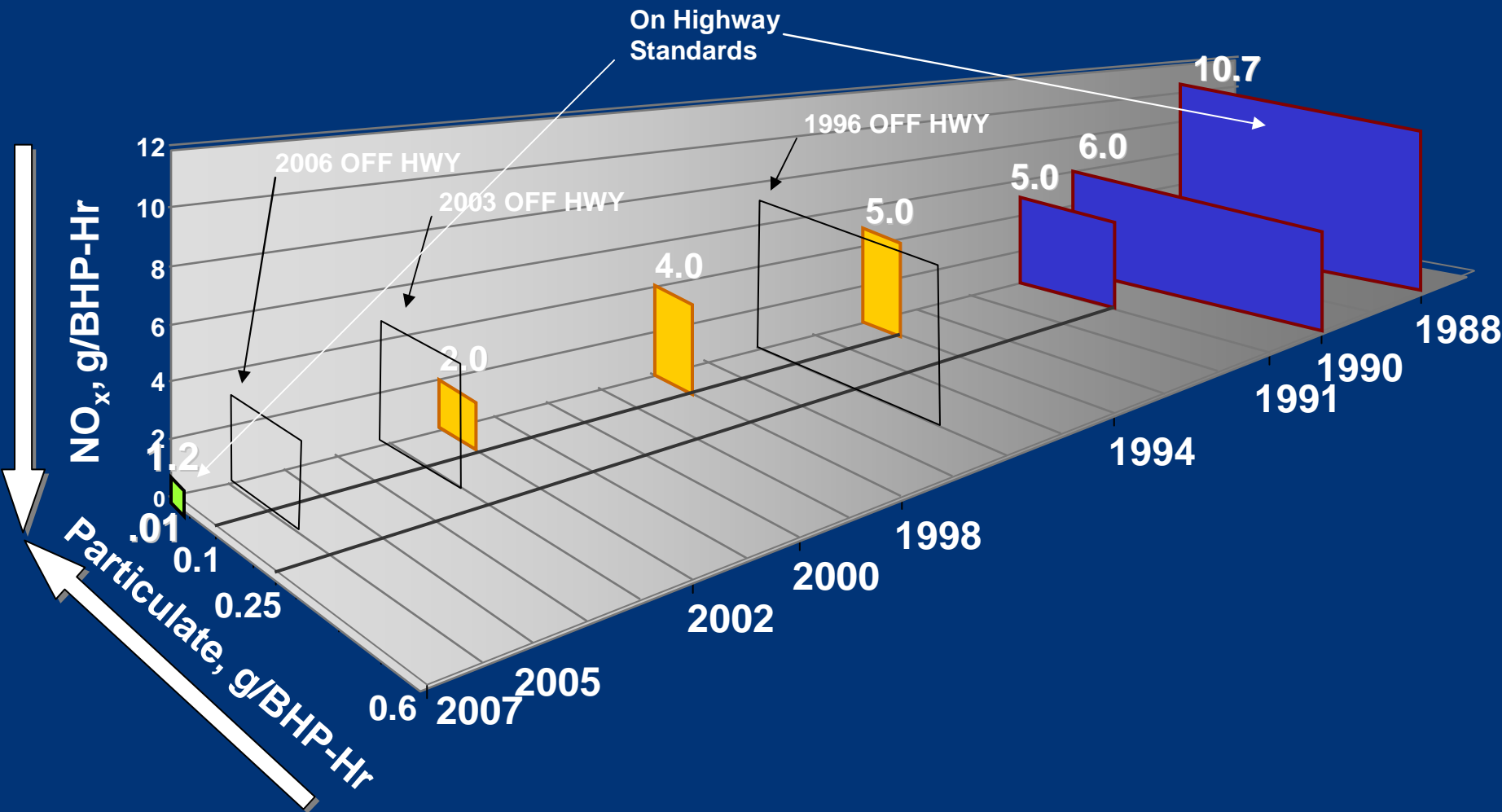
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EPA Driving Low Diesel Emissions

On Highway Standards



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APMT
IS
CONTRIBUTING
TO
CLEANER AIR



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CRITERIA FOR EMISSIONS STRATEGY

- Meets Business Needs
- Supported By Current Infrastructure
- Program With National Application
- Sustainable Long Term
- Integrates With Escalating Standards
- Must Be Safe

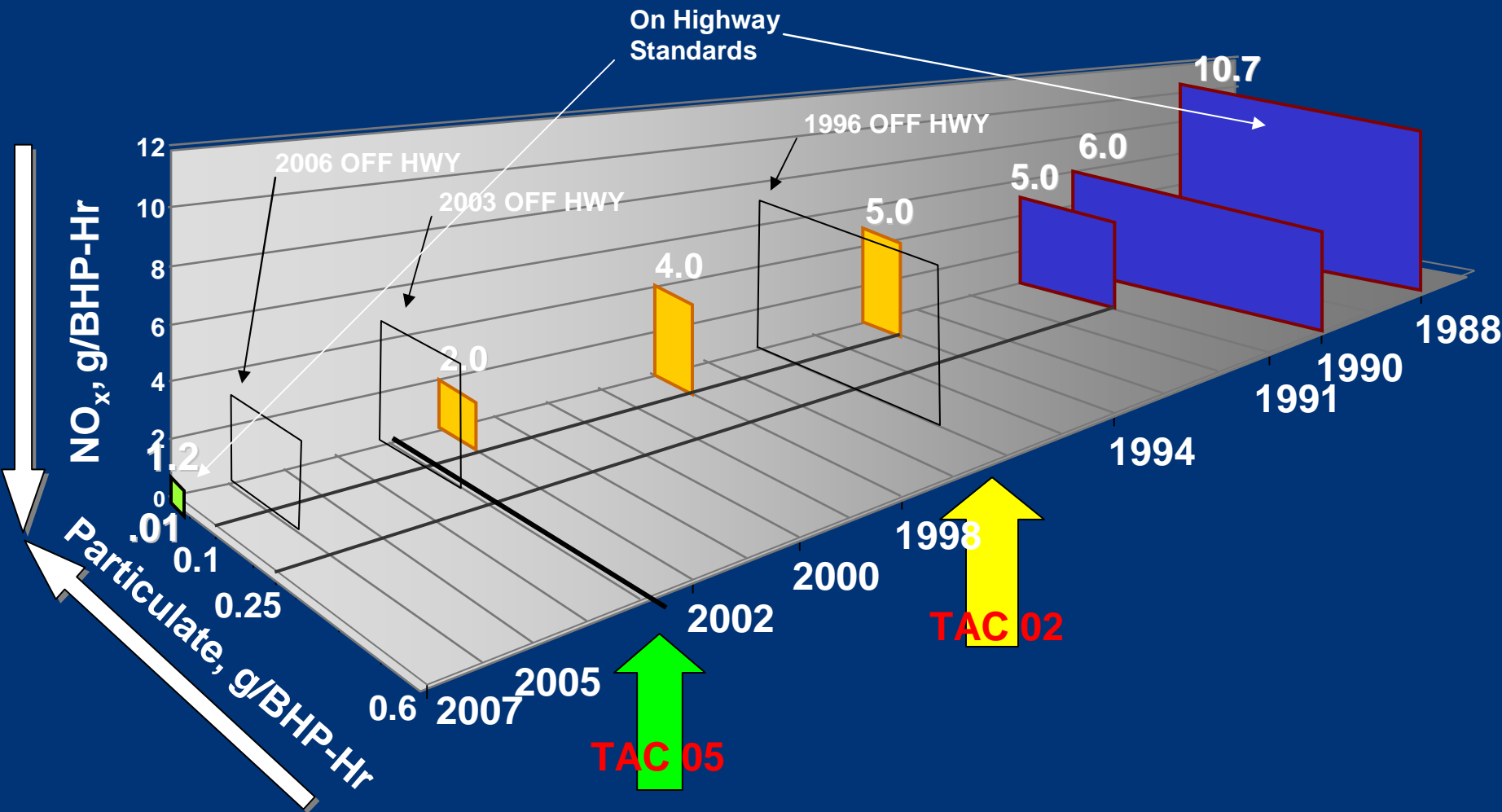


APMT EMISSIONS STRATEGY

- **REPLACE - NOT RETROFIT**
 - **NEW TECHNOLOGY MEETS EPA REGS**
 - **NEW TECHNOLOGY COST EFFECTIVE**
 - **ELECTRONIC ENGINE SUPPORTS FUTURE TECHNOLOGY**
- **BUY ON HIGHWAY ENGINES WHEN POSSIBLE**
 - **Higher EPA Ratings**
 - **Recommended Use CARB 2005**
- **EFFICIENT FUEL USE**
 - **IDLE SHUT DOWNS**
 - **ENGINE PROGRAMMABLE TO ACTIVITY CYCLE**
 - **INCREASE PRODUCTIVITY – DECREASED OPERATING HOURS**



APMT Tacoma Low Diesel Emissions



What about 2007 and Beyond?

Stable Engine Architecture

2002

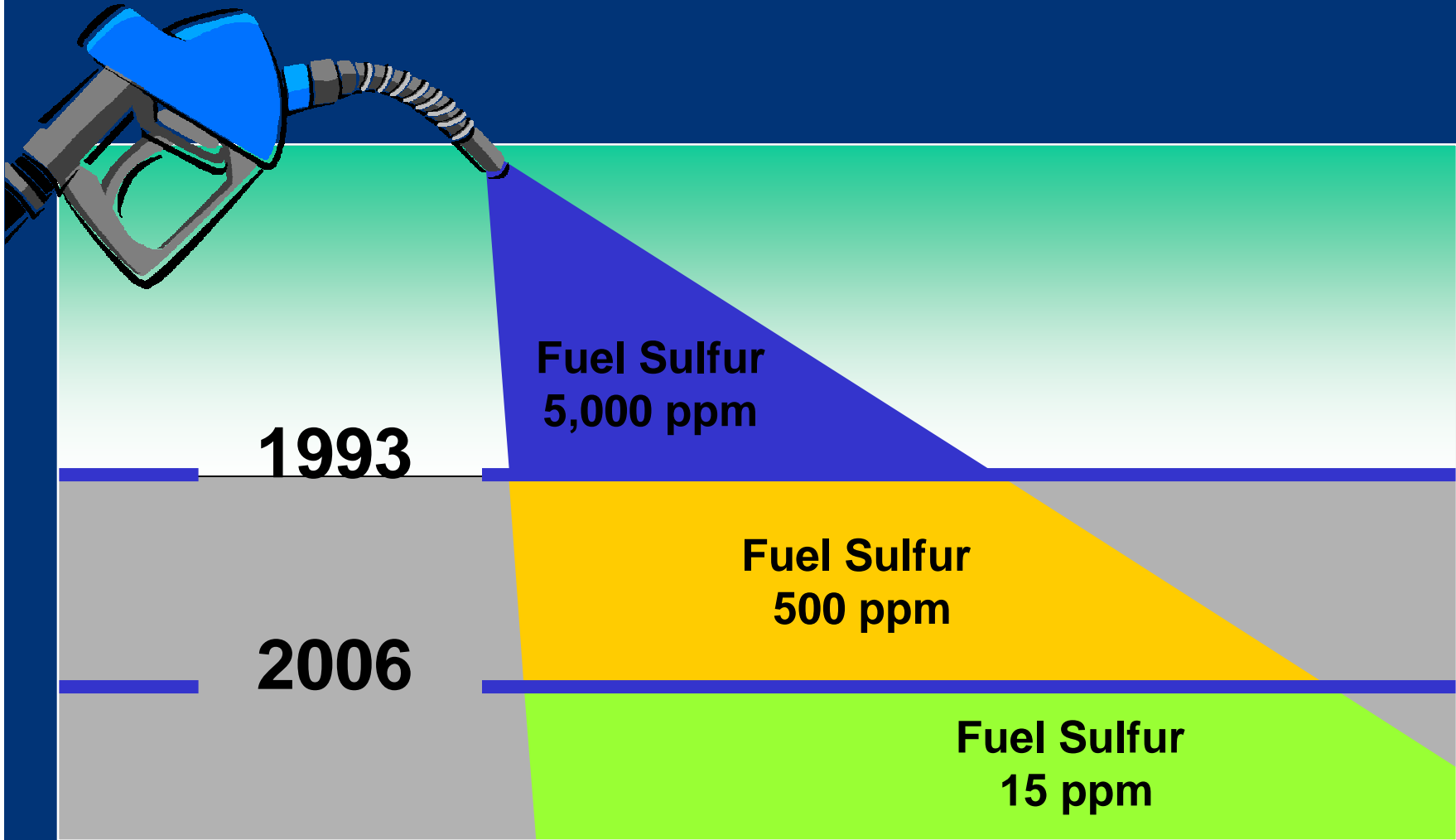
2007



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Reducing Diesel Fuel Sulfur



ARE WE MAKING PROGRESS?

Emissions Reduction Strategies

Gate improvements and equipment modernization were two strategies identified as making both business and environmental sense.

Terminal Operators indicated that good corporate citizenship is a top priority for their business operations; therefore, environmental programs are a core part of their business plan.



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ARE WE MAKING PROGRESS?

PANYNJ recently updated a Cargo Handling Equipment (CHE) Emissions Inventory Report. The report calculated air emissions generated by five terminal operators at the port during 2004.

This report was compared to a similar 2002 CHE emissions inventory.

Although number of pieces of equipment in the fleet have increased by 19%, operating hours have increased by 5%, and the number of containers have increased by 25%, overall emission estimates for key pollutants in tons per year have decreased overall by more than 30% and more than 45% relative to the increased activity.

Average Fleet Age in L.A. from 2002 to 2005 was reduced from 1993 to 2001.

Pier Pass in Southern California has reduced highway congestion around the harbor area.



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