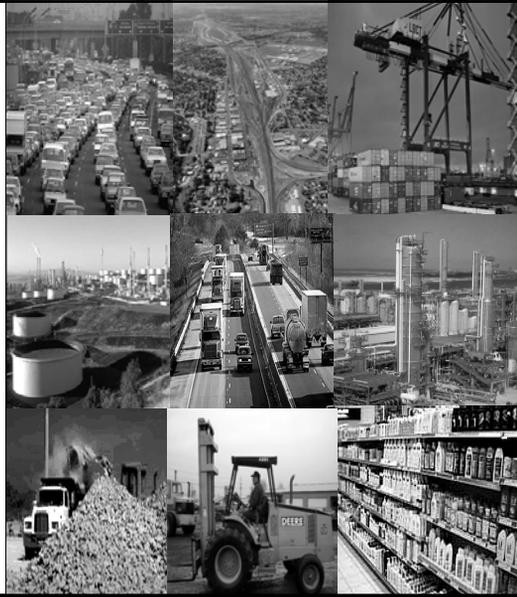


Long-term Concepts for Ozone Attainment

Kurt Karperos



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Near-term Concepts are First Step

- Aimed at attaining the PM_{2.5} standard by 2015
- Provide substantial long-term benefits



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2024 Benefits of Identified Concepts

- Near-term concepts in South Coast reduce 2024 emission of
 - NOx by 180 tpd
 - ROG by 75 tpd
- Need future measures to achieve additional NOx and ROG reductions ozone attainment in South Coast and San Joaquin Valley



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South Coast Reductions Needed from Long-term Concepts

- **Preliminary 2024 ozone targets:**
75% NOx plus ROG reductions
- **Identified concepts provide about 60%**
- **Preliminary estimate: need another 15% from long-term measures**



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Factors in Long-term Projections

- **How will population and travel grow**
- **Rate of technology turnover**
- **What new technologies will come forward**



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Future Strategies

- **New technology standards**
- **Fuel cells**
- **Energy efficiency**
- **More financial resources**
- **Reactivity, reformulation, and consumer choice**



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