



MANE-VU Regional Haze Planning

Round 2 Analysis Base Year(s) Emissions Data: 2011, 2014v2, and 2016

Round 2 Regional Haze Planning Workshop

December 6, 2017

Denver, CO

MANE-VU Base Year for Round 2 Regional Haze SIPs

- ▶ The MANE-VU States decided in late 2014 to move forward with SIP development base on current resources
- ▶ Base year will be 2011 and modeling platform will be 2011 based
 - ▶ A SIP quality platform has been available to us for a number of years
 - ▶ Removes timeline uncertainties and man-power demands related to developing a new modeling platform
 - ▶ It's already paid for!

MANE-VU 2011 Base Year Inventory Analysis

- ▶ Relied on 2011 Alpha 2 inventory
 - ▶ Focused primarily on SO₂ and NO_x
 - ▶ Categorized by Sector and Fuel
 - ▶ Examined 2011 base year and 2018 projections
- ▶ Work intended to provide an idea as to what sectors to do further work on:
 - ▶ Q/d & CALPUFF Contribution Assessment
 - ▶ Four-Factor Analysis
 - ▶ Include in the Ask
- ▶ Report finalized October 10, 2016 -
<http://otcair.org/MANEVU/Upload/Publication/Reports/Contribution%20Assessment%20Preliminary%20Inventory%20Analysis.pdf>

What is in 2011 Alpha 2?

For the Sectors Analyzed:

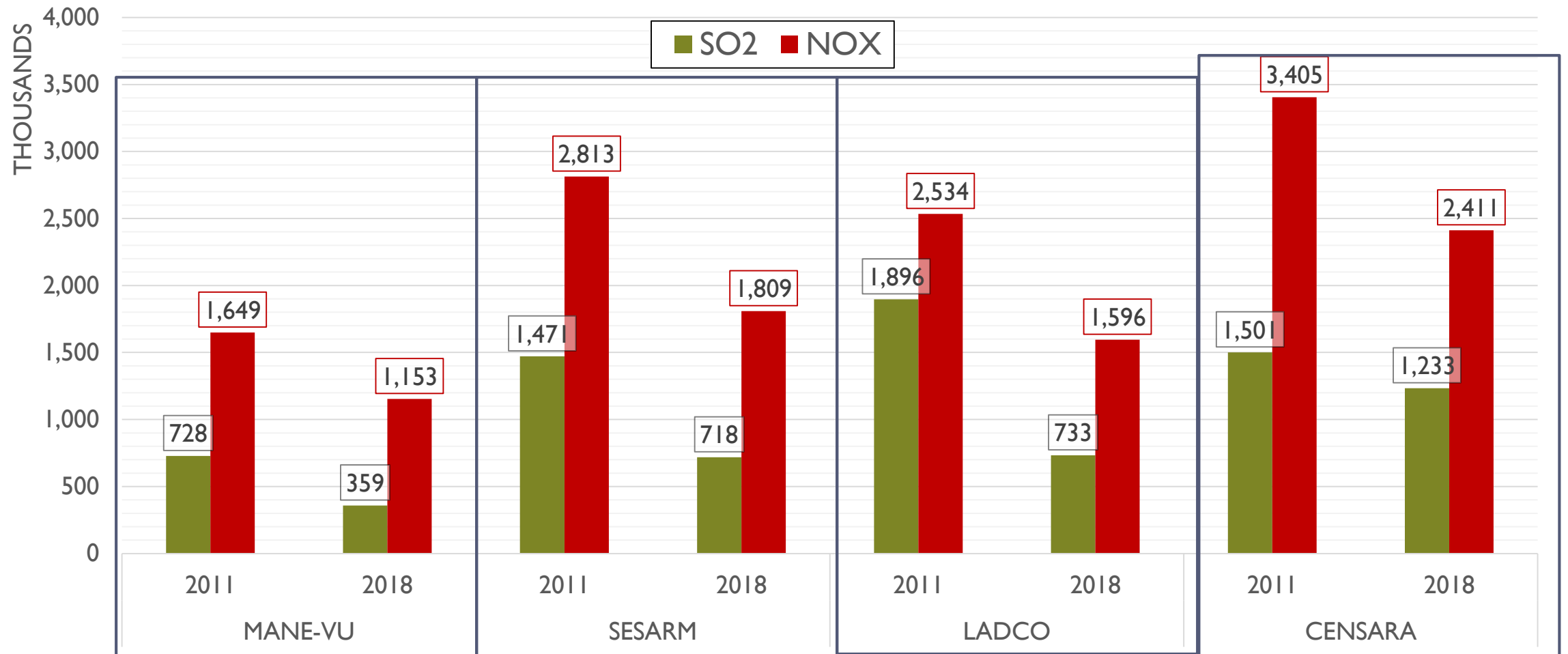
MARAMA – Alpha 2 Inventory

- EGUs (ERTAC v2.3)
- Ethanol
- Non-EGU Point
- Non-IPM EGUs
- Non-point
- Refueling

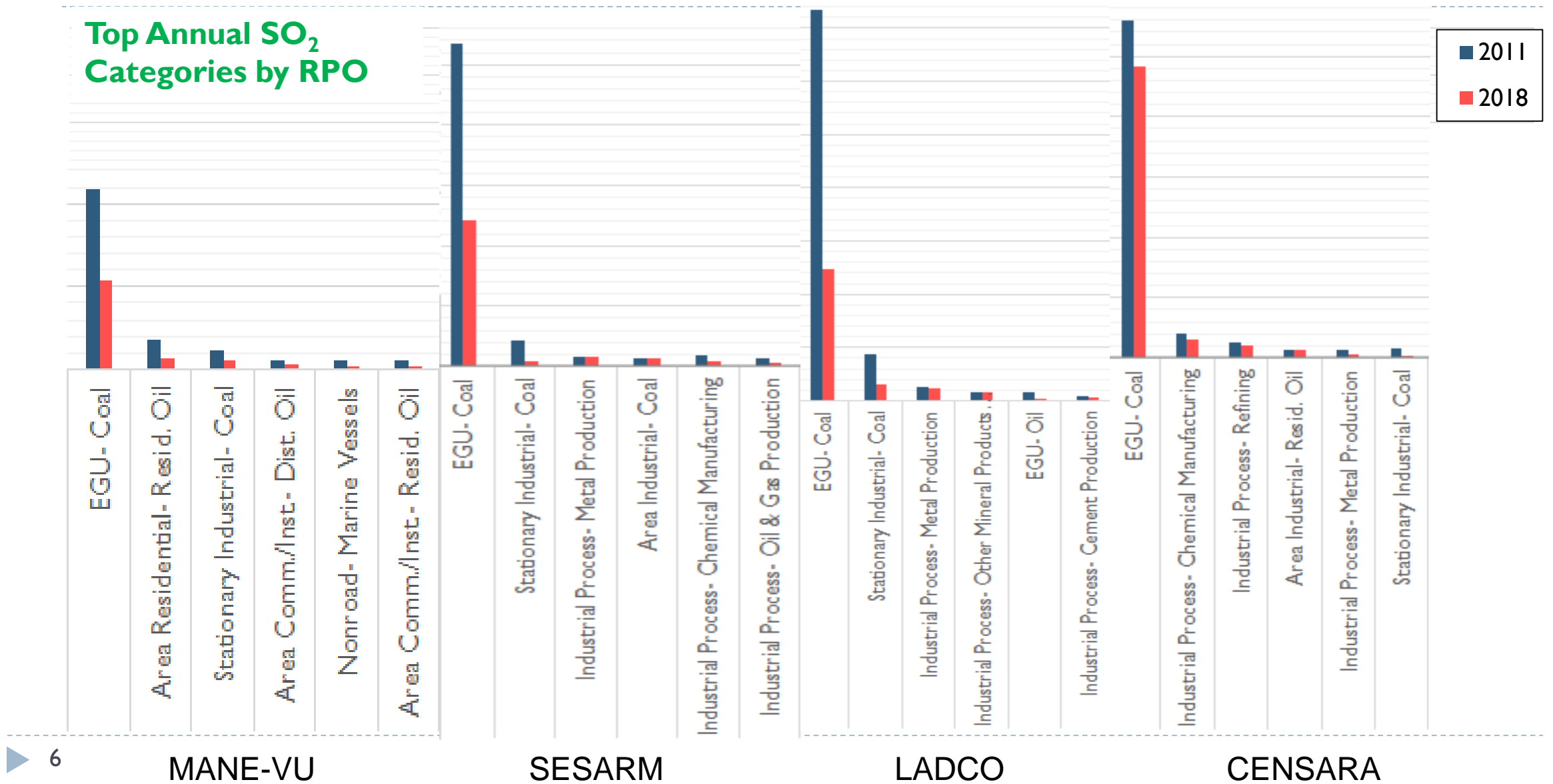
EPA “eh” Inventory

- CI/C2 Marine
- C3 Marine (“ej”)
- Nonroad
- Oil & Gas
- Onroad
- Rail
- RWC

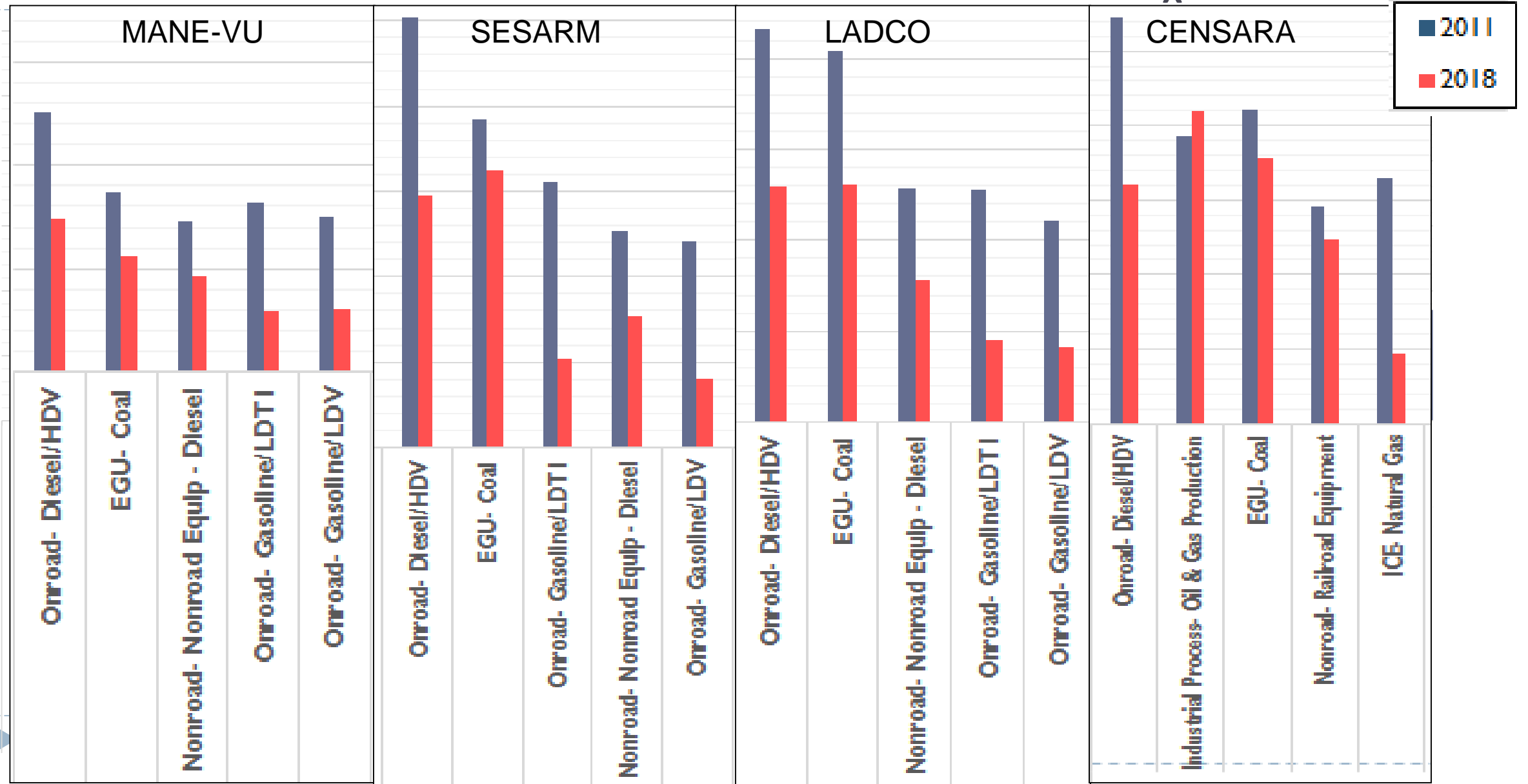
Comparison of 2011 and 2018 Inventories (SO₂ and NO_x)



Coal EGUs are by far the Most Important SO₂ Emitters



Heavy-Duty Diesel and Coal EGU's are Important NO_x Emitters



Conclusions

- ▶ High priority placed on further control of SO₂ at coal fired EGUs
- ▶ Secondary priority given to:
 - ▶ Residential combustion area sources (SO₂)
 - ▶ Industrial point combustion sources (SO₂)
 - ▶ Oil fired EGUs (SO₂)
 - ▶ Coal fired EGUs (NO_x)
 - ▶ Heavy duty diesel vehicles (NO_x)
 - ▶ Nonroad diesel equipment (NO_x)