

# Comparison of 2002 NEI to RPO Inventories

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# Background

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- Early 2004, 5 RPOs and EPA accept that two parallel inventory sets for 2002 will be developed due to differences in:
  - Schedules
  - Pollutant scope
  - Model file formats
  - Potentially estimation methodologies
- S/L/T 2002 CERR Submittals due June 2004 to go separately to RPO and EPA

# NEI 2002 Timeline

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- S/L/T CERR Submittals June 2004  
(EPA compiles & adds other data sources)
- EPA posts 2002 NEI Draft Feb 2005
- S/L/T Comments on Draft May 2005  
(EPA performs PM augmentation)
- EPA posts 2002 NEI Final V1 Feb 2006
- Access & Compare RPO EIs June 2006

# EI Versions & Formats

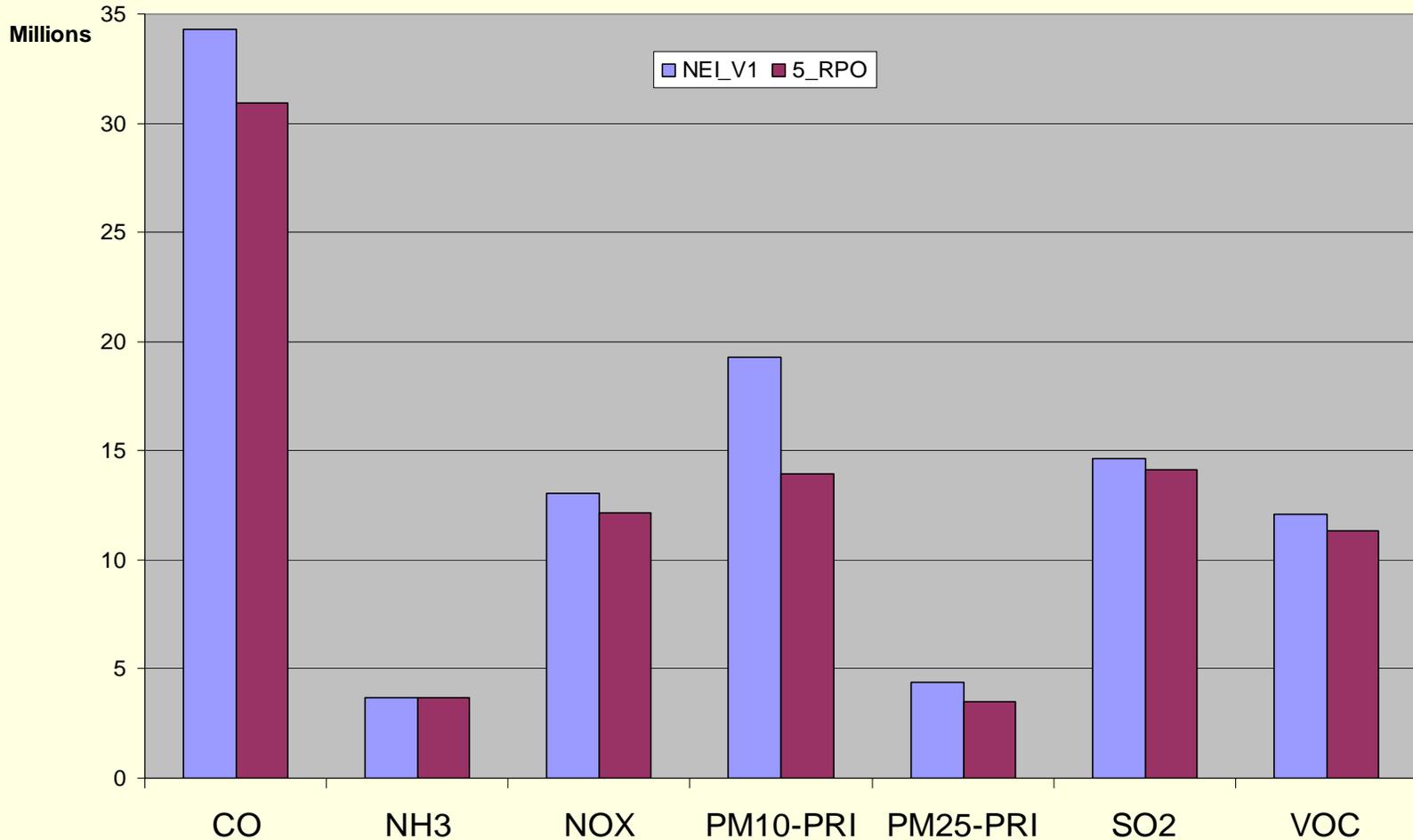
<b>Inventory</b>	<b>Version</b>	<b>Accessed</b>	<b>Format</b>
NEI	V1	2/23/06	NOF
CENRAP	B	2/27/06	NIF
MANE-VU	3	6/21/06	NIF
MRPO	Base K	4/14/06	RPODx
VISTAS	Base G	6/29/06	NIF
WRAP	1.0	11/15/05	IDA

# Other Format Hurdles

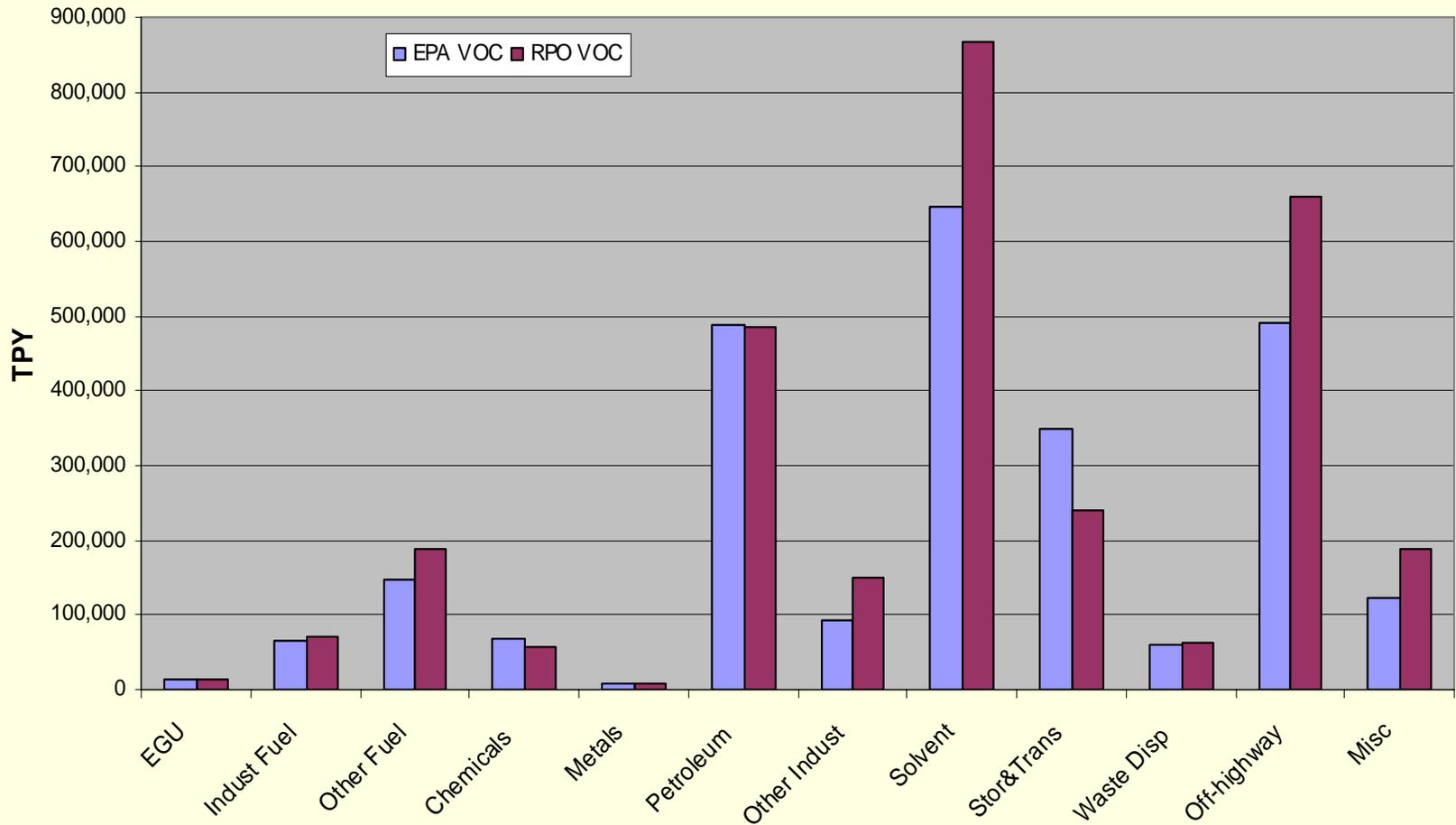
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- Varying Temporal Bases - Annual, Monthly, Daily, Seasonally Annualized
- Nonpoint Sector with or w/o Ag Burns, WFs, Wind Erosion, Road Dust
- On-road Sector excluded b/c most RPOs had only M6 input files, not pre-calculated emissions

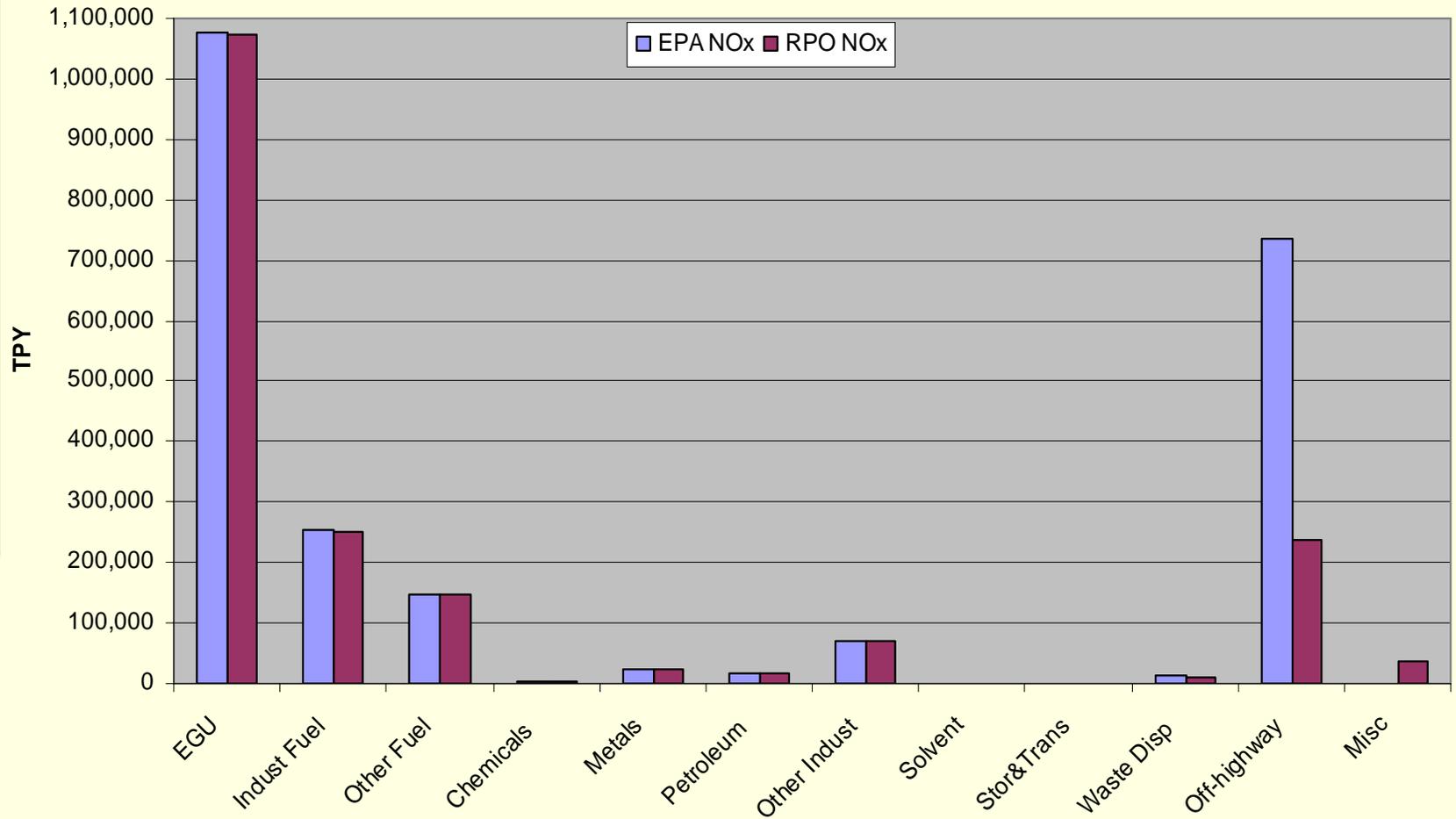
# Results – National, 7 Pollutants



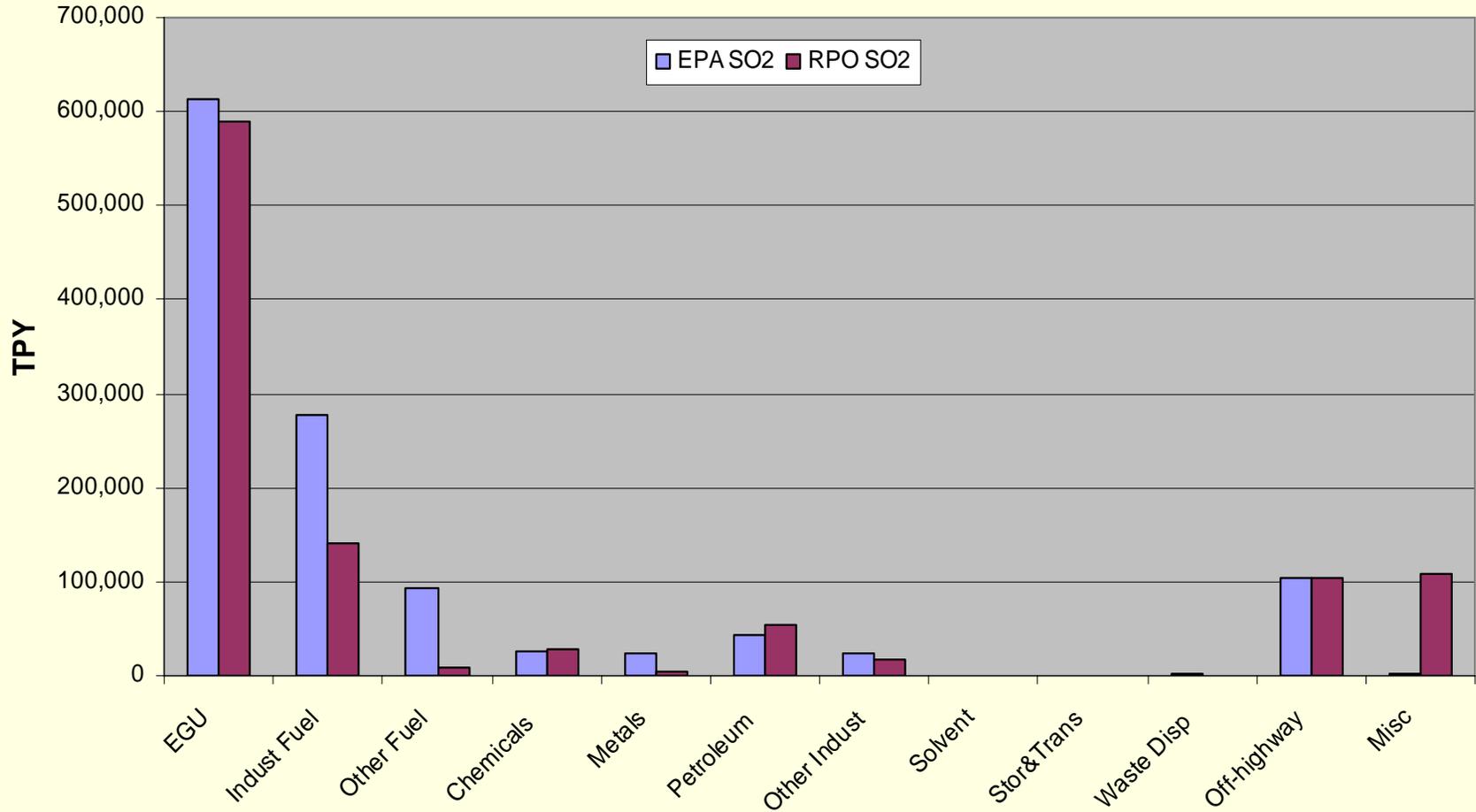
# Results – CENRAP, VOC, by Tier



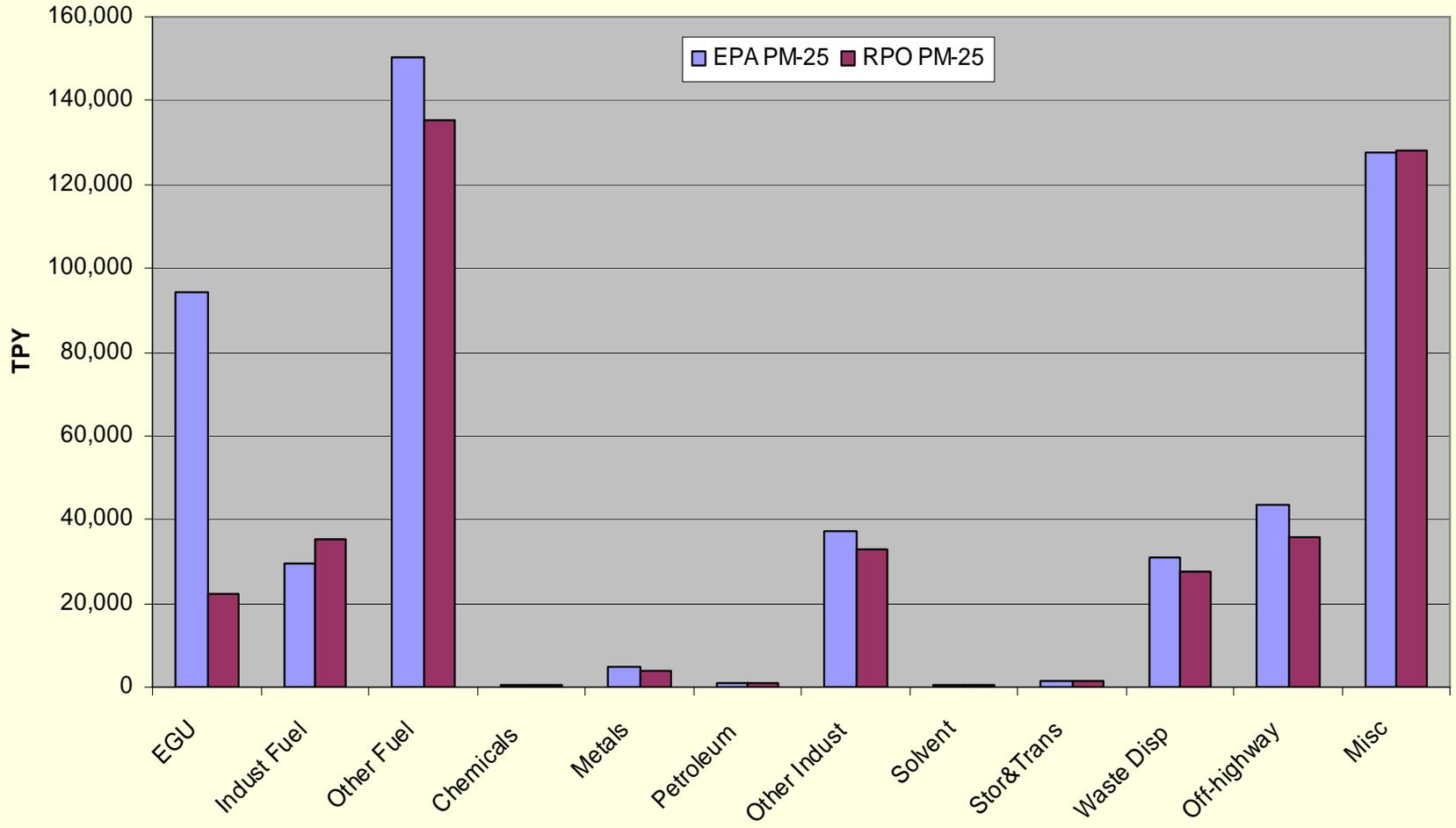
# Results – MRPO, NO<sub>x</sub>, by Tier



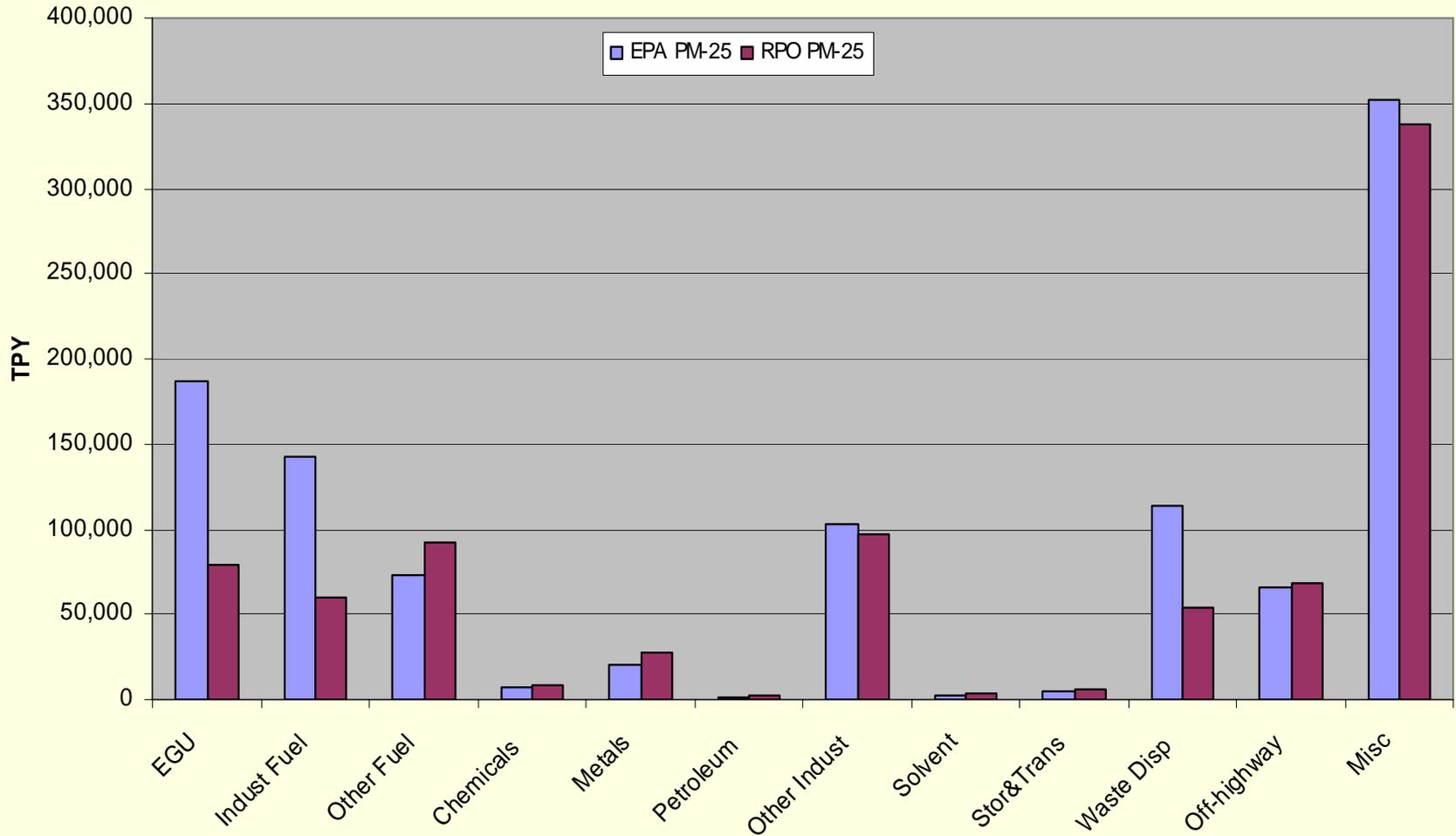
# Results – WRAP, SO2, by Tier



# Results – MANE-VU, PM2.5, by Tier



# Results – VISTAS, PM2.5, by Tier



# Observations - Overall

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- Methods, Data Handling, & Results very comparable
- No significant differences seen in Point Sources not already accounted for
- Significant Nonpoint differences corrected in NEI V2
- Data sharing & Comparisons difficult due to varying formats and scopes

# Observations – Common Differences

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- Marine Vessels
- Fugitive Dust
- Some Fires
- PM-Condensable

# Recommendations

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- Avoid separate paths at all costs
- More collaboration & communication, esp. for key sectors with evolving methods
- Need better ability to access data & compare at meaningful levels of detail

# Opportunities

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- NEI Reinvention & EIS Design
  - Communicate available methods
  - Collaborate on improved methods
  - Improved access to fully detailed data
  - Improved and automated data summaries
- Environmental Exchange Network facilitates data sharing among EI Developers

