

Passenger Transportation 2012 AQMP Emission Inventory

Agenda No. 2

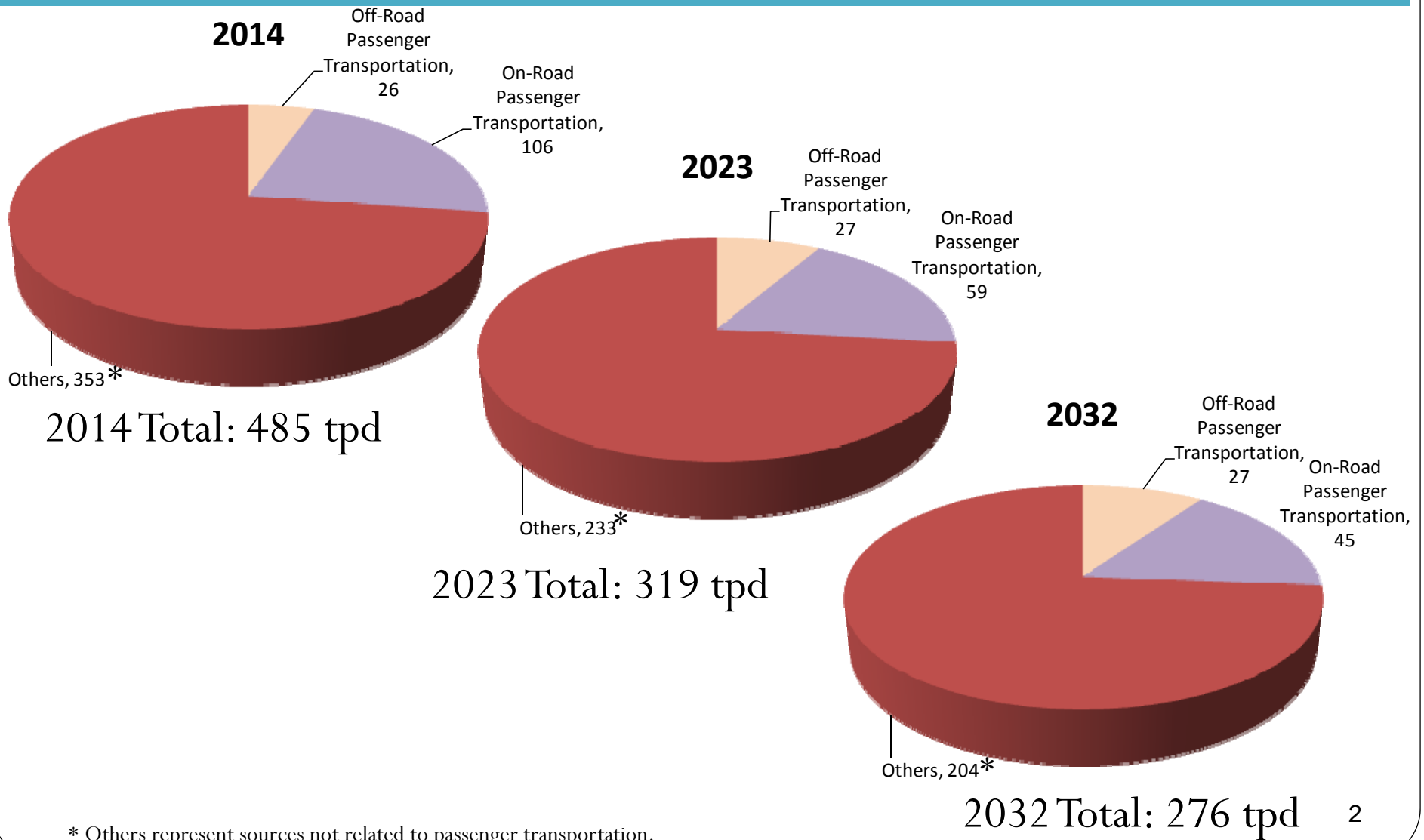


Passenger Transportation White Paper

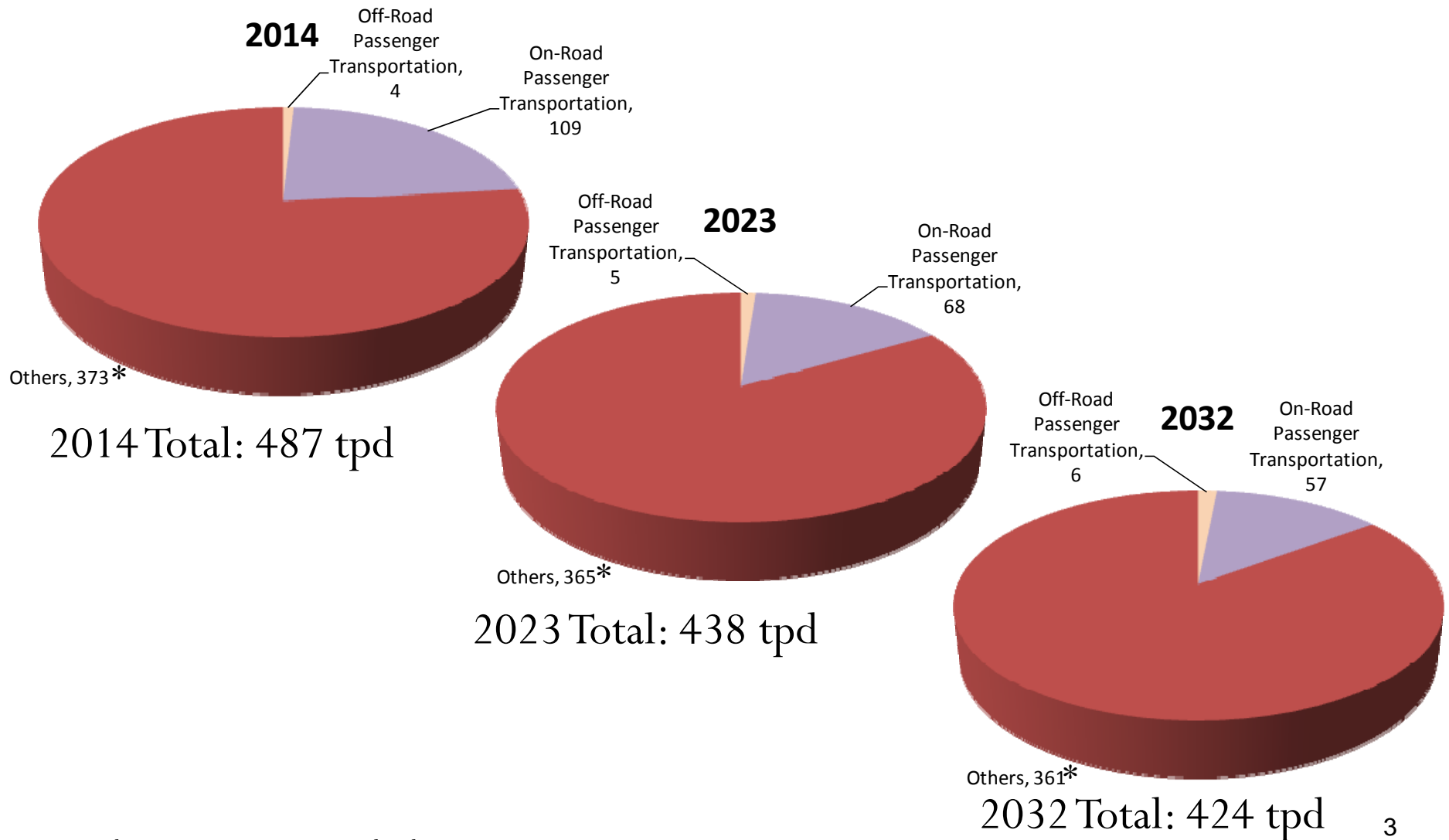
Working Group Meeting

August 5, 2014

Passenger Sector Emission Contributions – NOx (tpd)

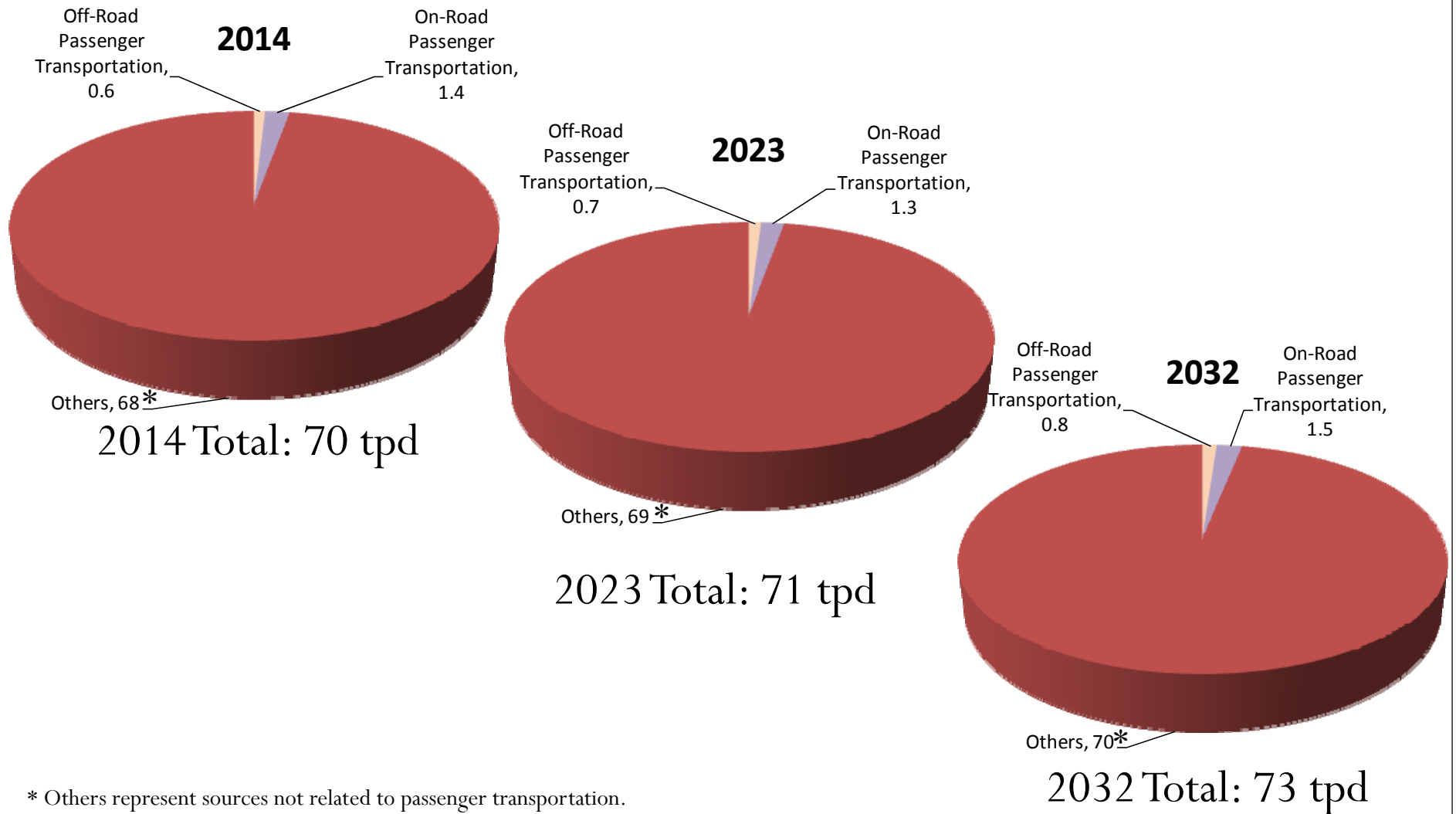


Passenger Sector Emission Contributions – VOC (tpd)



* Others represent sources not related to passenger transportation.

Passenger Sector Emission Contributions – PM (tpd)







* Others represent sources not related to passenger transportation.

Note: Mobile source related re-entrained road dust included in the Total

On-Road Emission Inventory

Vehicle Categories

DESCRIPTION	WEIGHT CLASS (LBS.)	
Passenger Car (LDA)	All	
Light-Duty Truck 1 (LDT1)	Up to 3,750	
Light-Duty Truck 2 (LDT2)	3,751 – 5,750	
Medium-Duty Vehicle (MDV)	5,751 – 8,500	

Vehicle Categories Continued

**Motorcycle
(MCY)**



**School Bus
(SBUS)**



**Urban Bus
(UBUS)**



**Other Bus
(OBUS)**



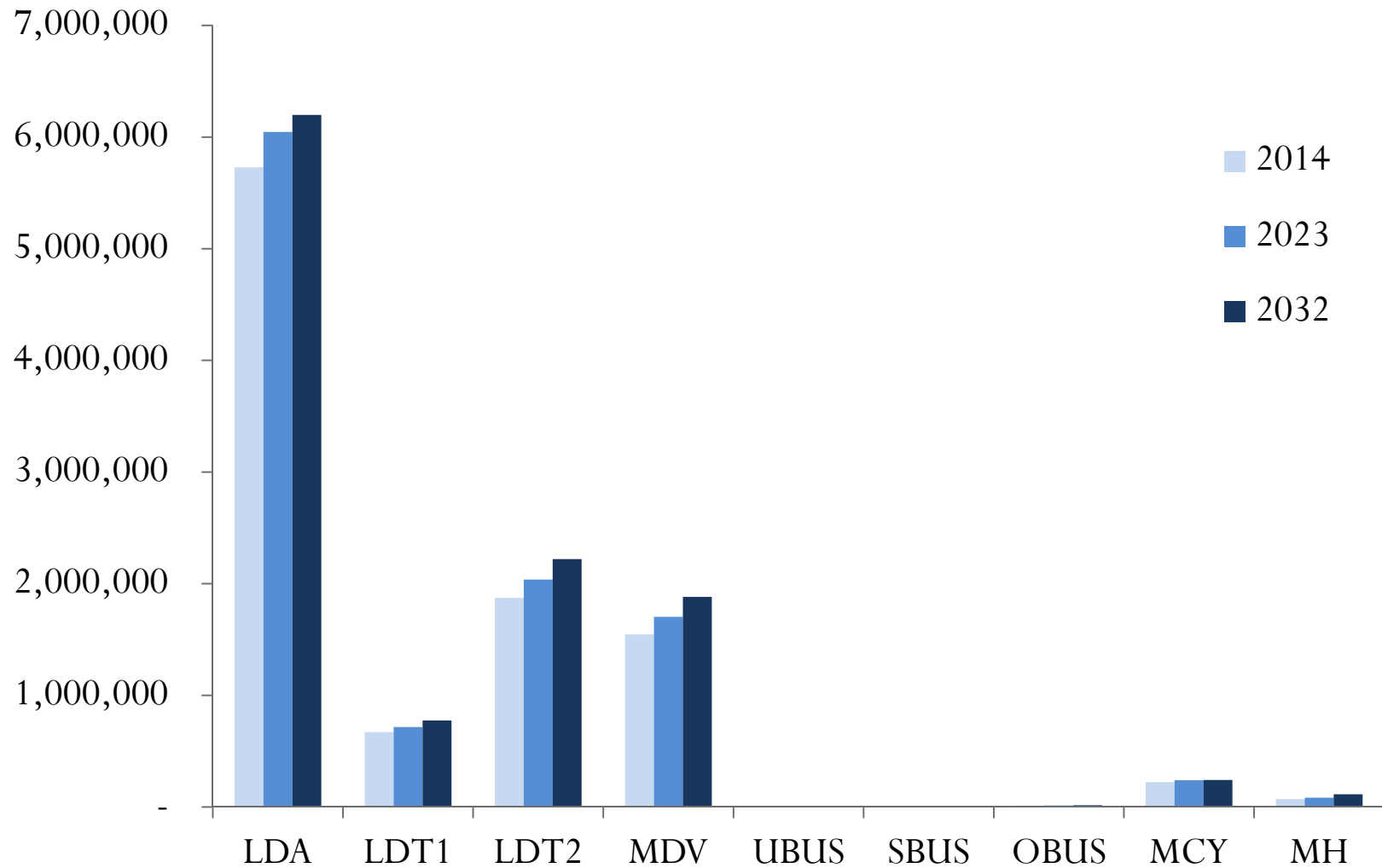
**Motorhome
(MH)**



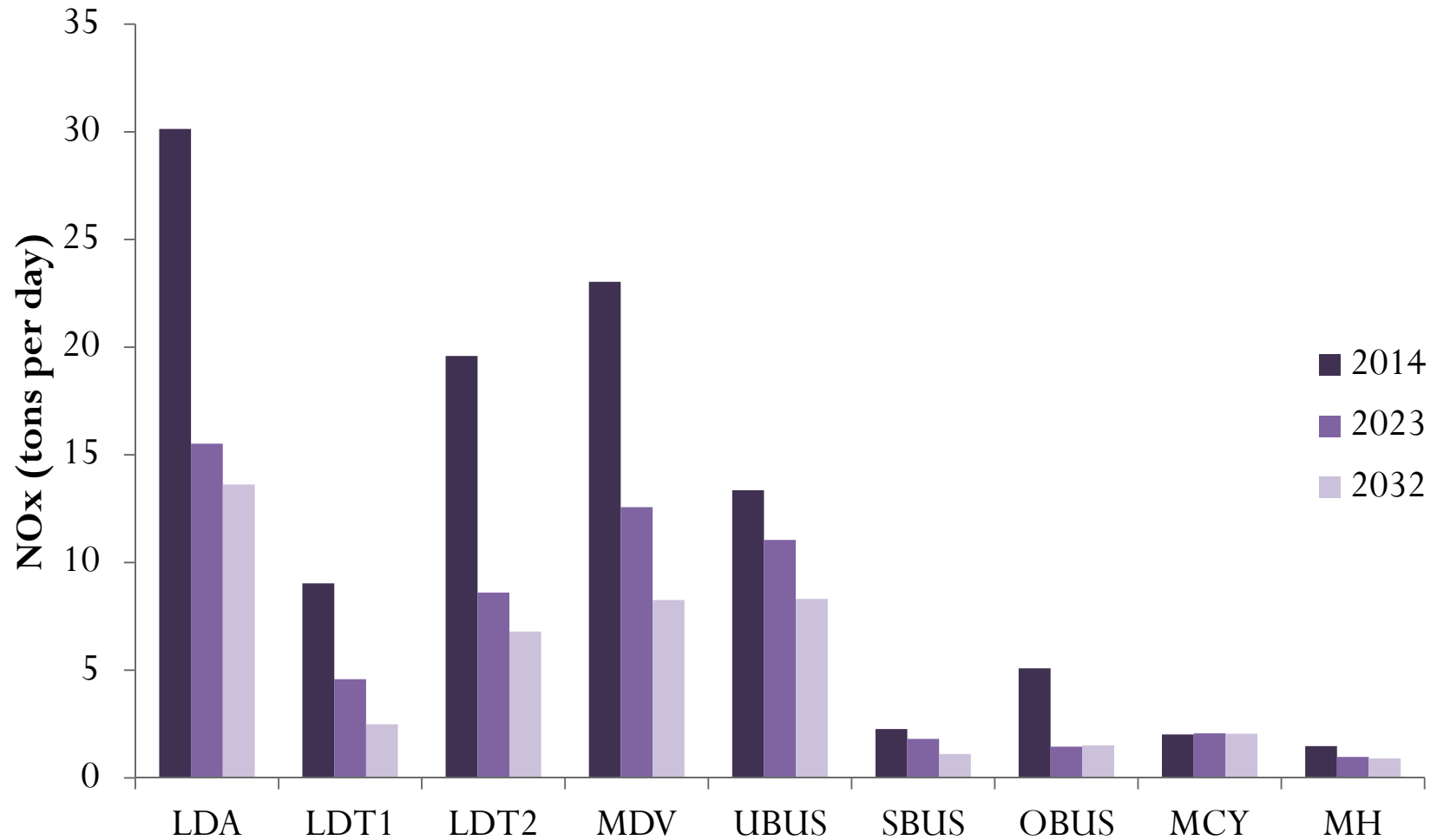
On-Road Emission Inventory

- Estimates Based on:
 - Vehicle Activity (Vehicle Miles Travelled, Trips)
 - Emission Standards
- Types of Emissions:
 - Exhaust (Running, Idling, Start)
 - Evaporative (Diurnal, Hot Soak, Running Loss, Rest Loss) – Gasoline Only

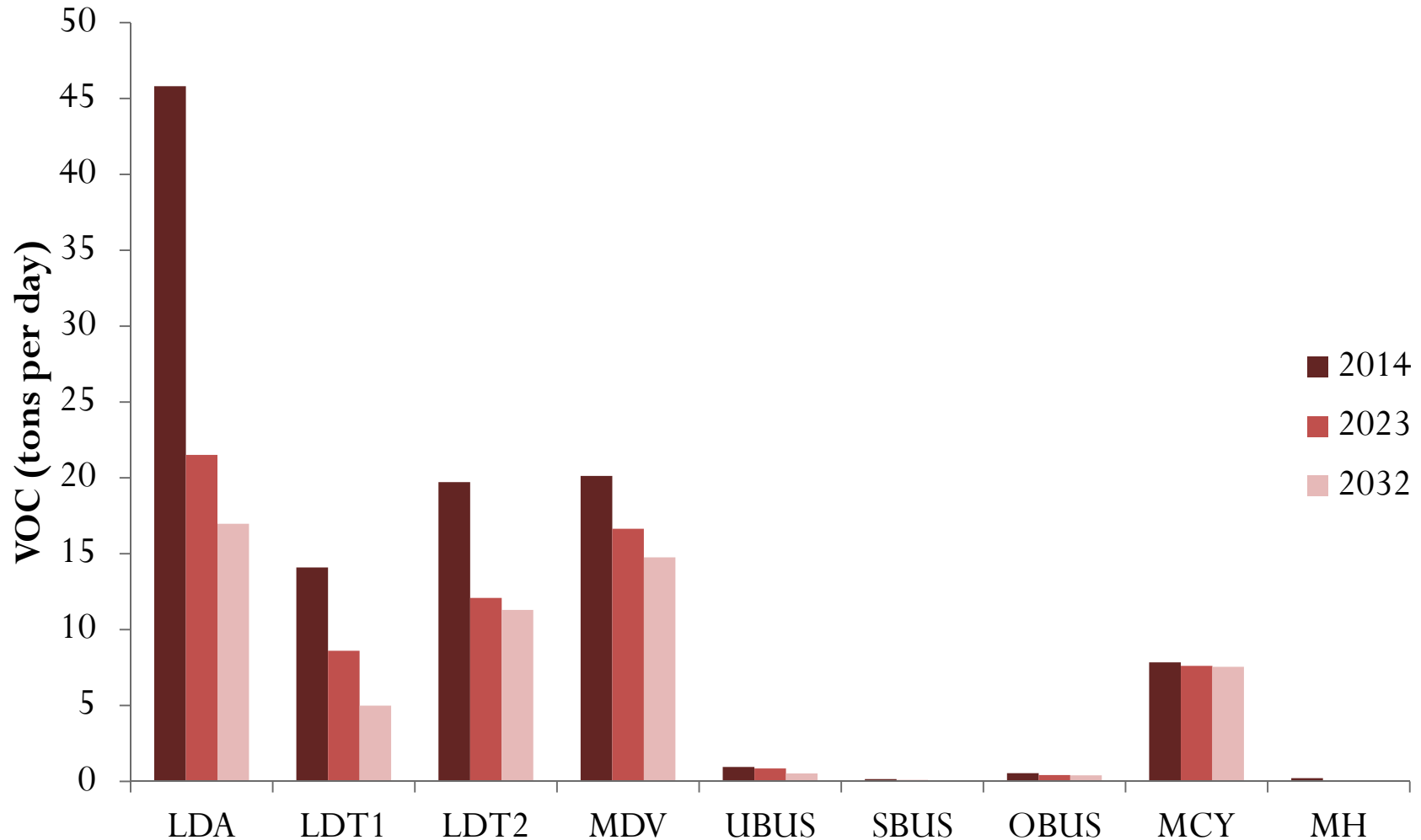
On-Road Passenger Transportation Vehicle Population



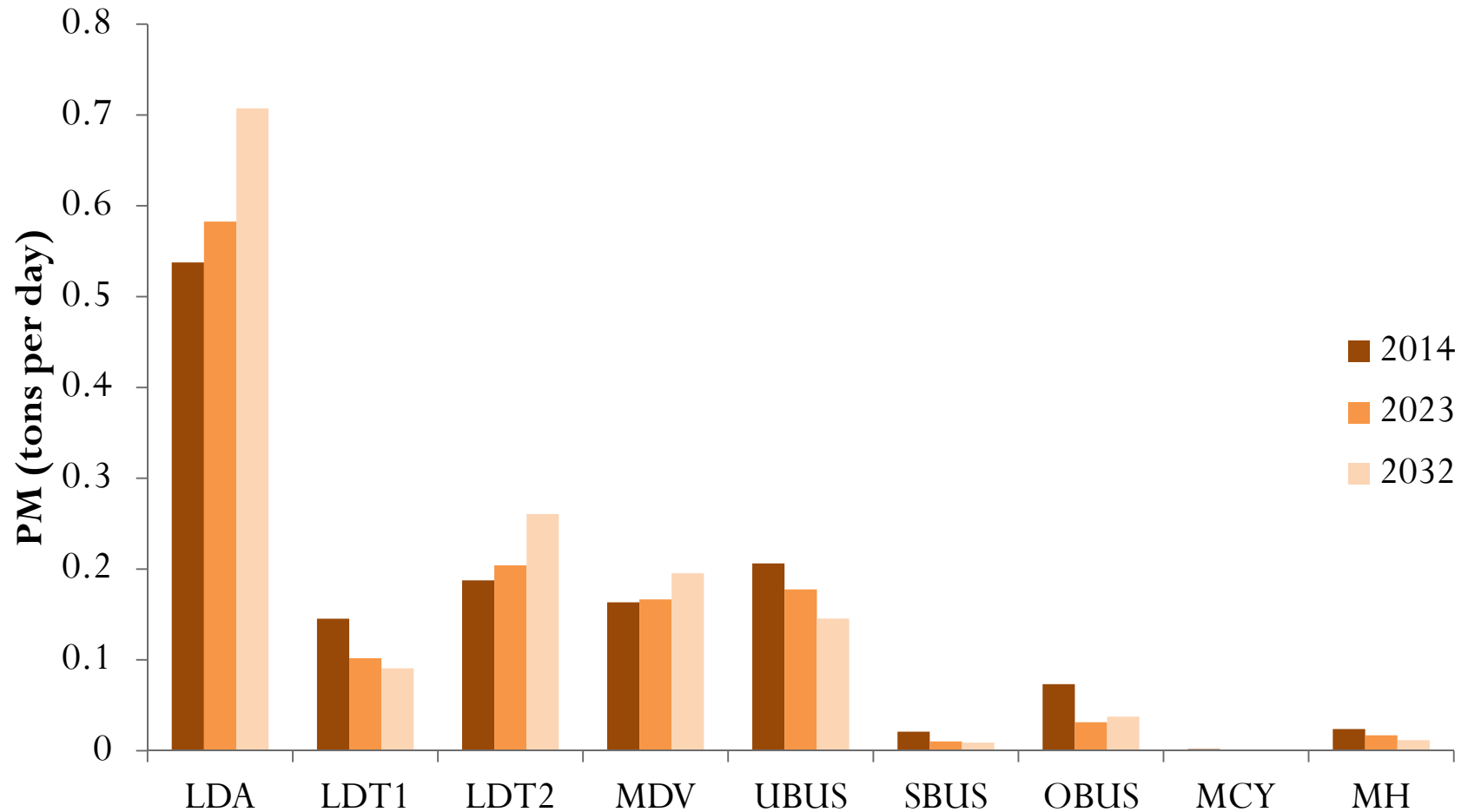
On-Road Passenger Transportation NOx Emissions



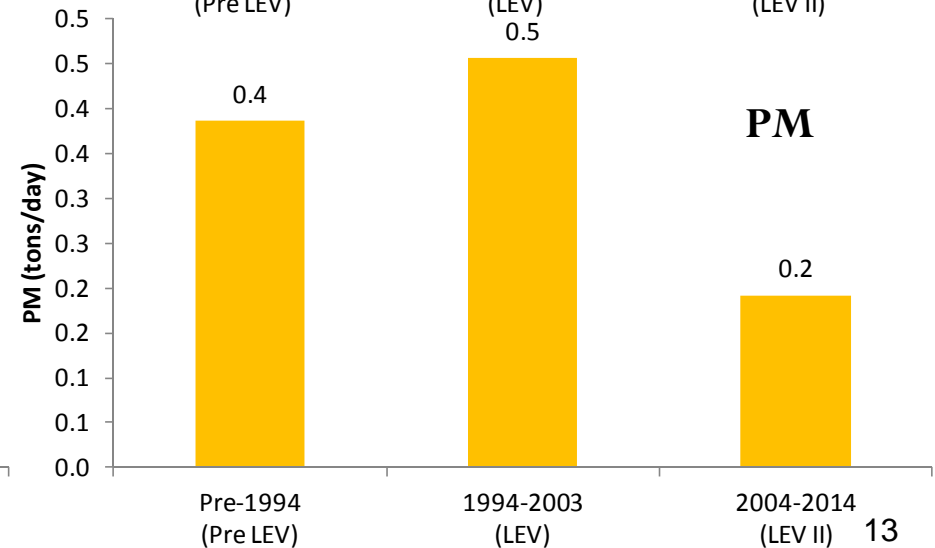
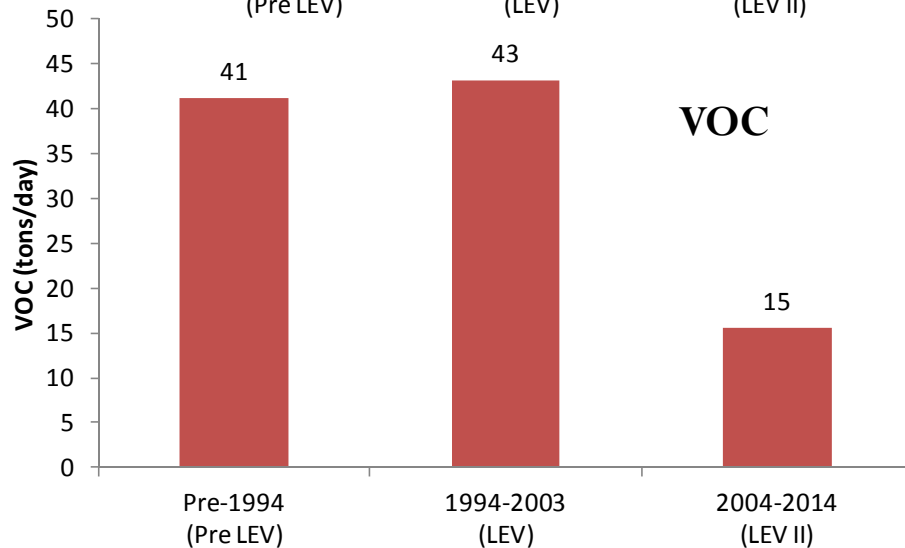
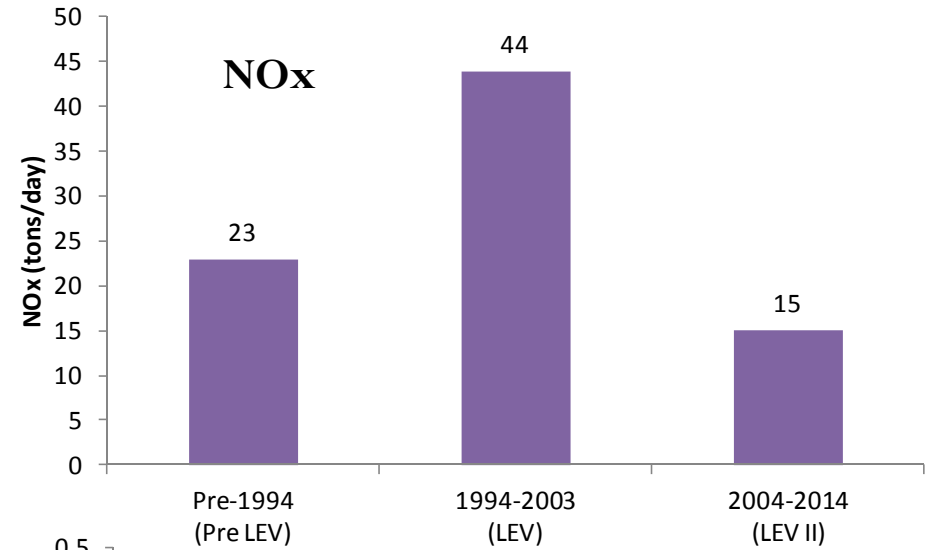
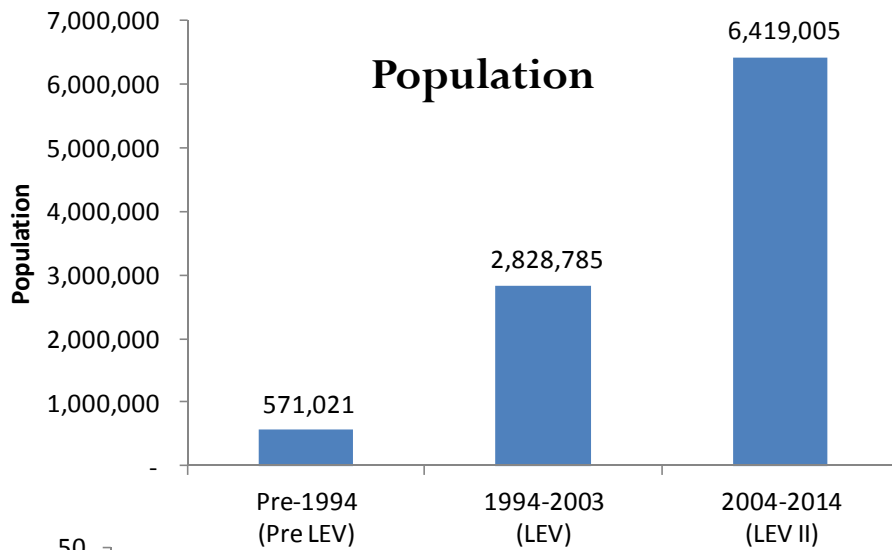
On-Road Passenger Transportation VOC Emissions



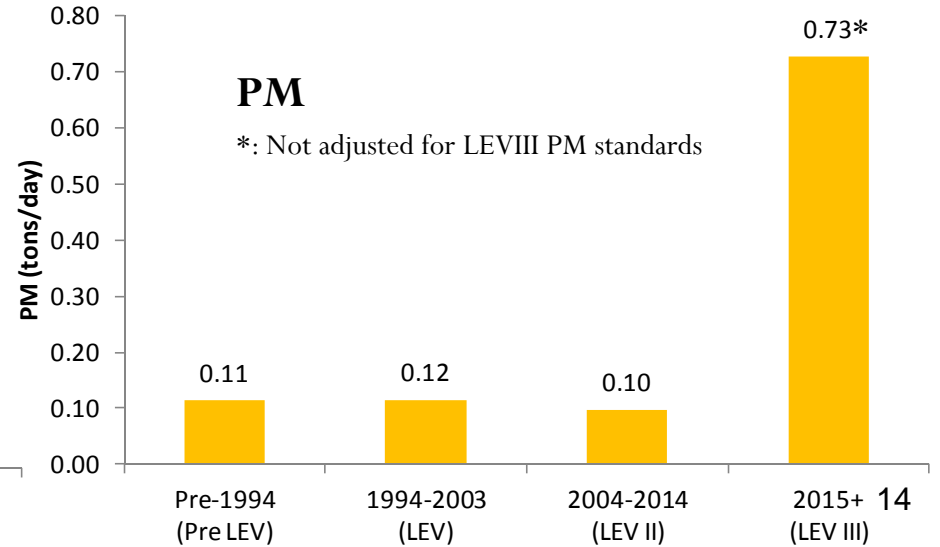
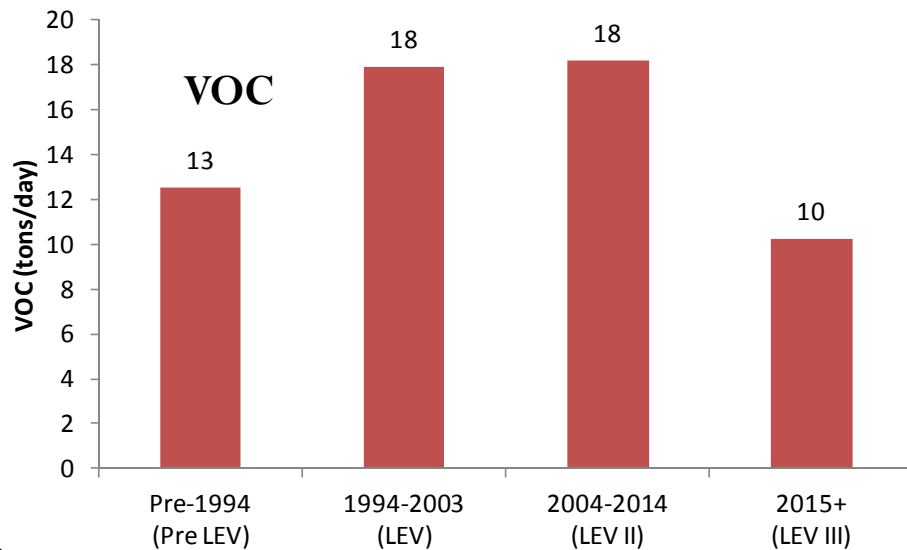
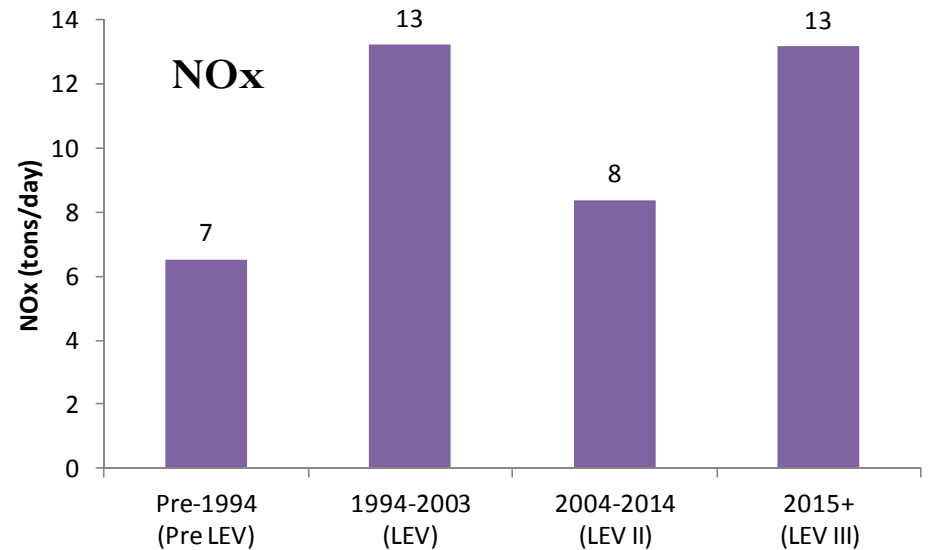
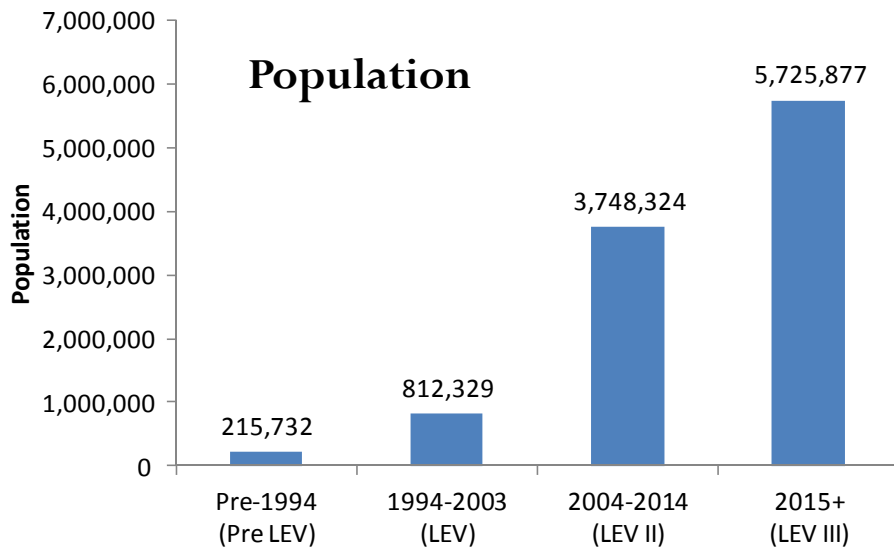
On-Road Passenger Transportation PM Emissions



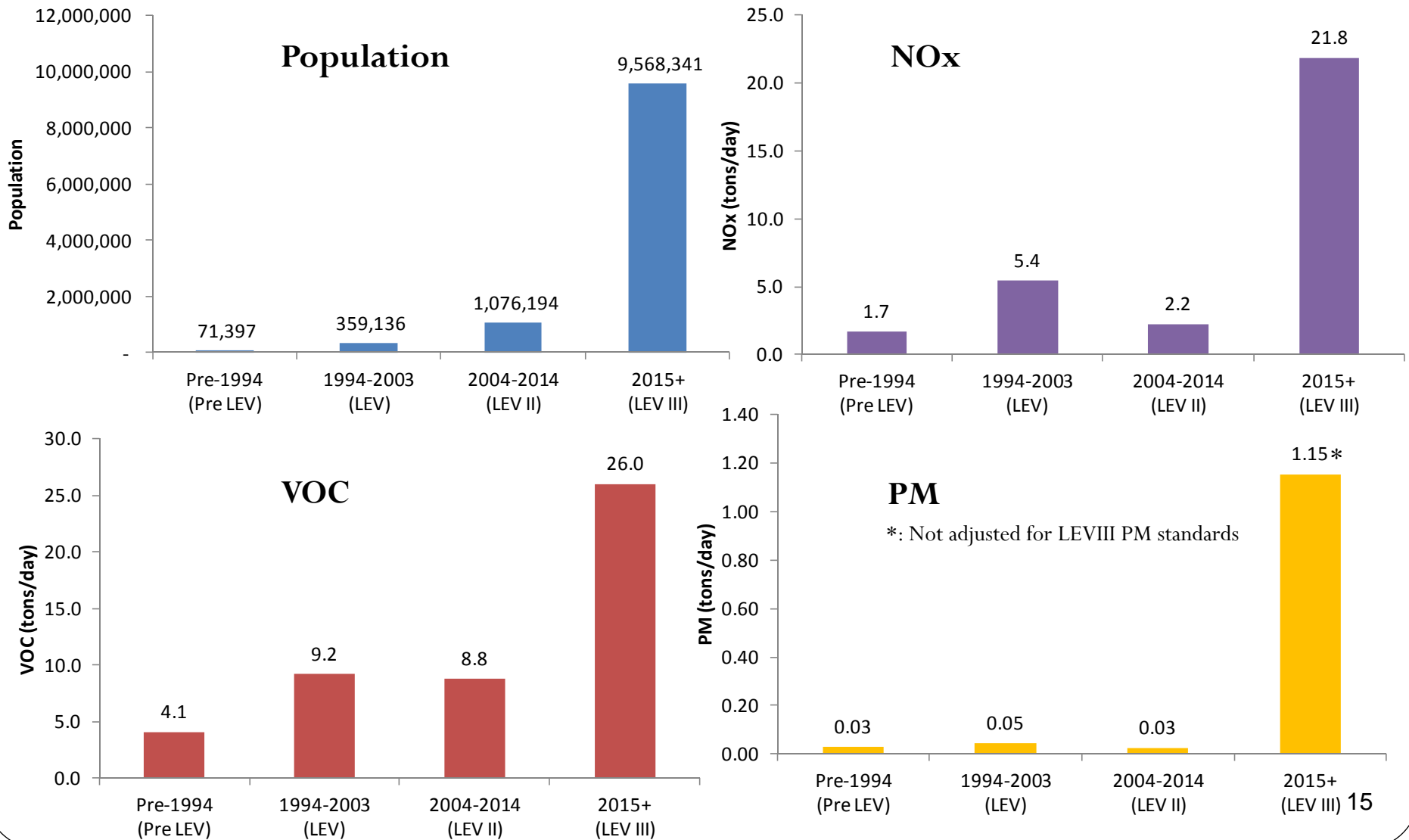
Light- and Medium-Duty Vehicles Population/Emissions in 2014



Light- and Medium-Duty Vehicles Population/Emissions in 2023









Light- and Medium-Duty Vehicles Population/Emissions in 2032

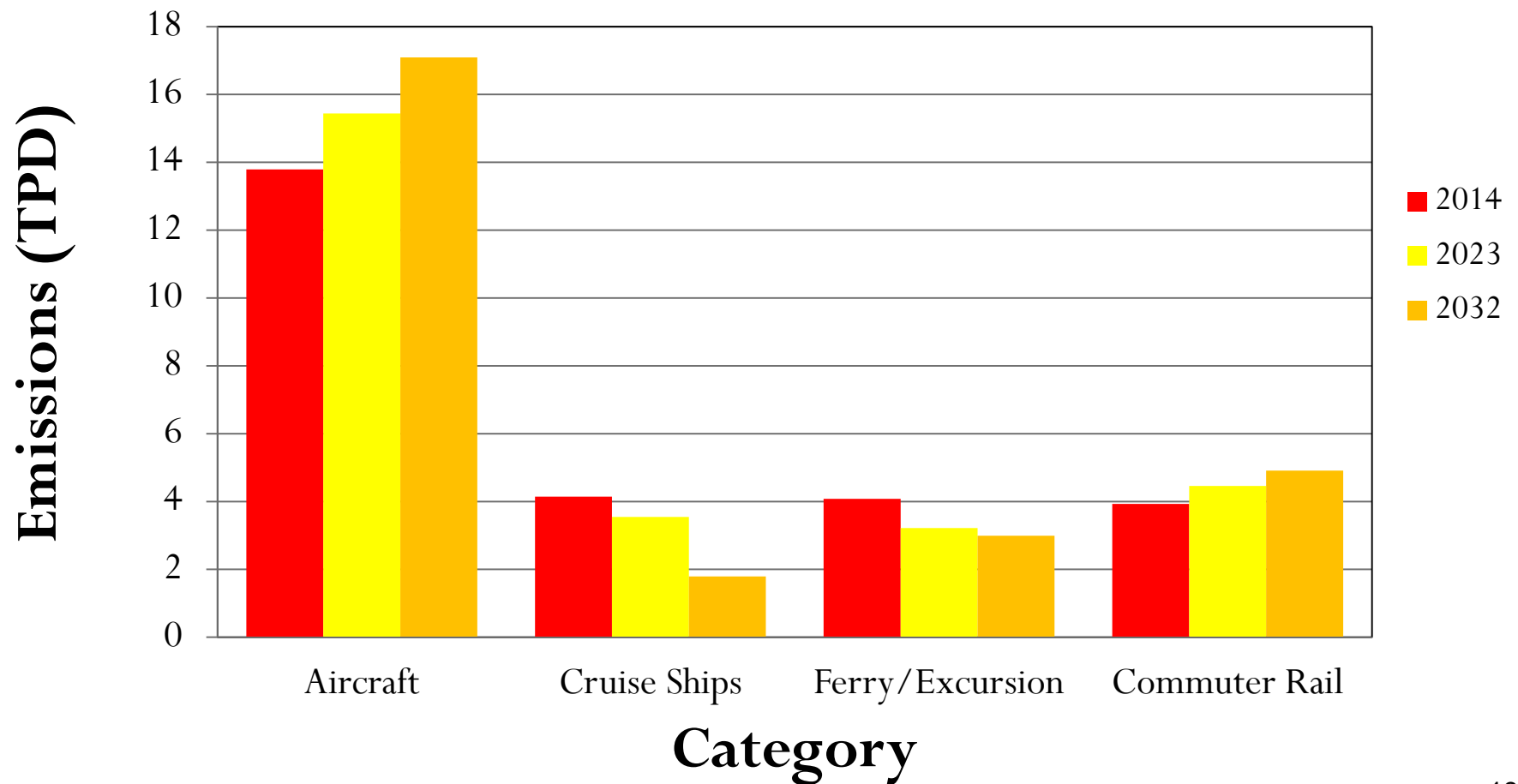


Off-Road Emissions Inventory

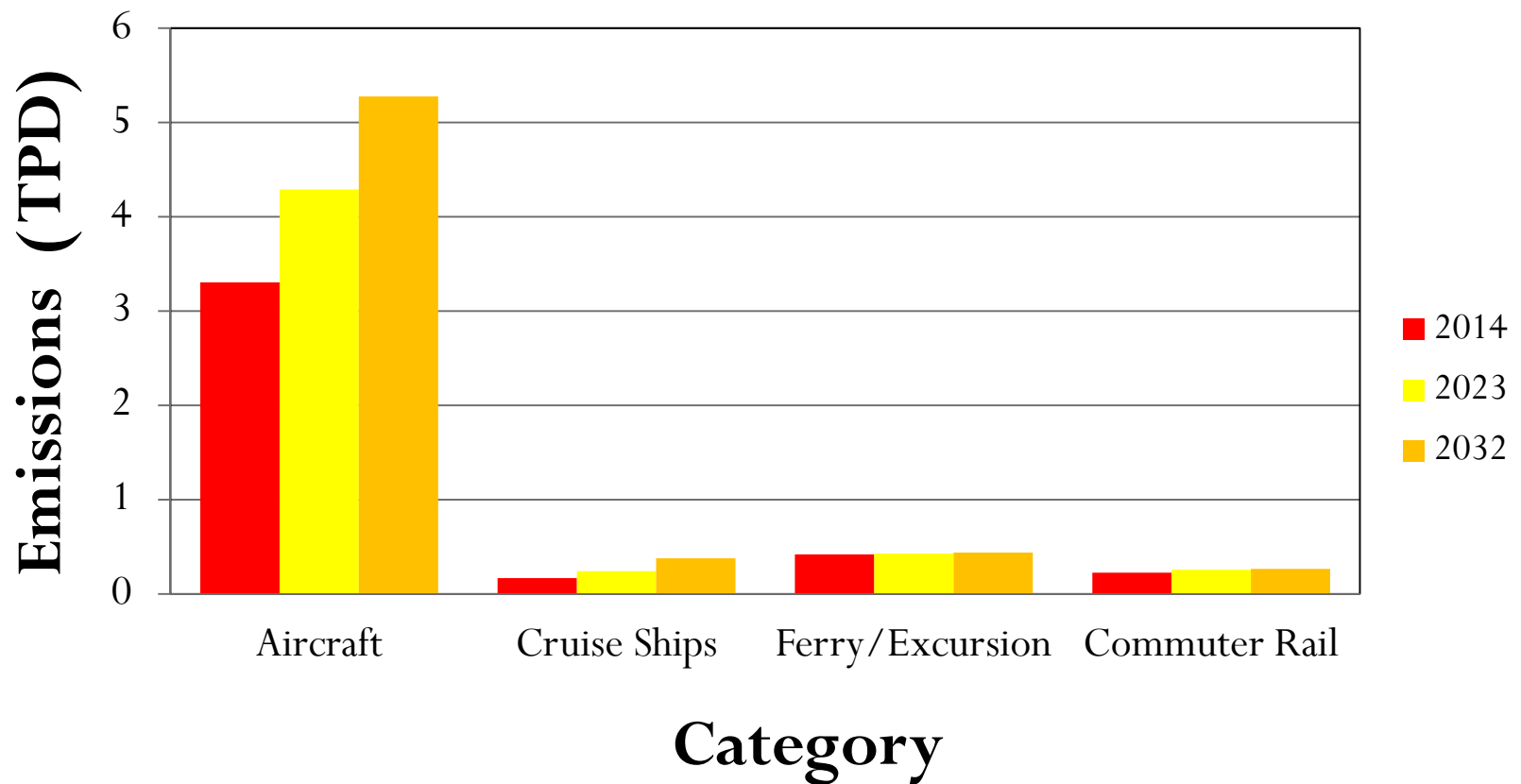
Off-Road Passenger Transport

Category	Class	
Ocean Going Vessels	Cruise Ships	
Commercial Harbor Craft	Ferries and Excursion Vessels	
Commuter Rail	Passenger Locomotives – Metrolink, Amtrak	
Aircraft	Commercial* and General Aviation * Includes Air Taxi and Air Cargo	  

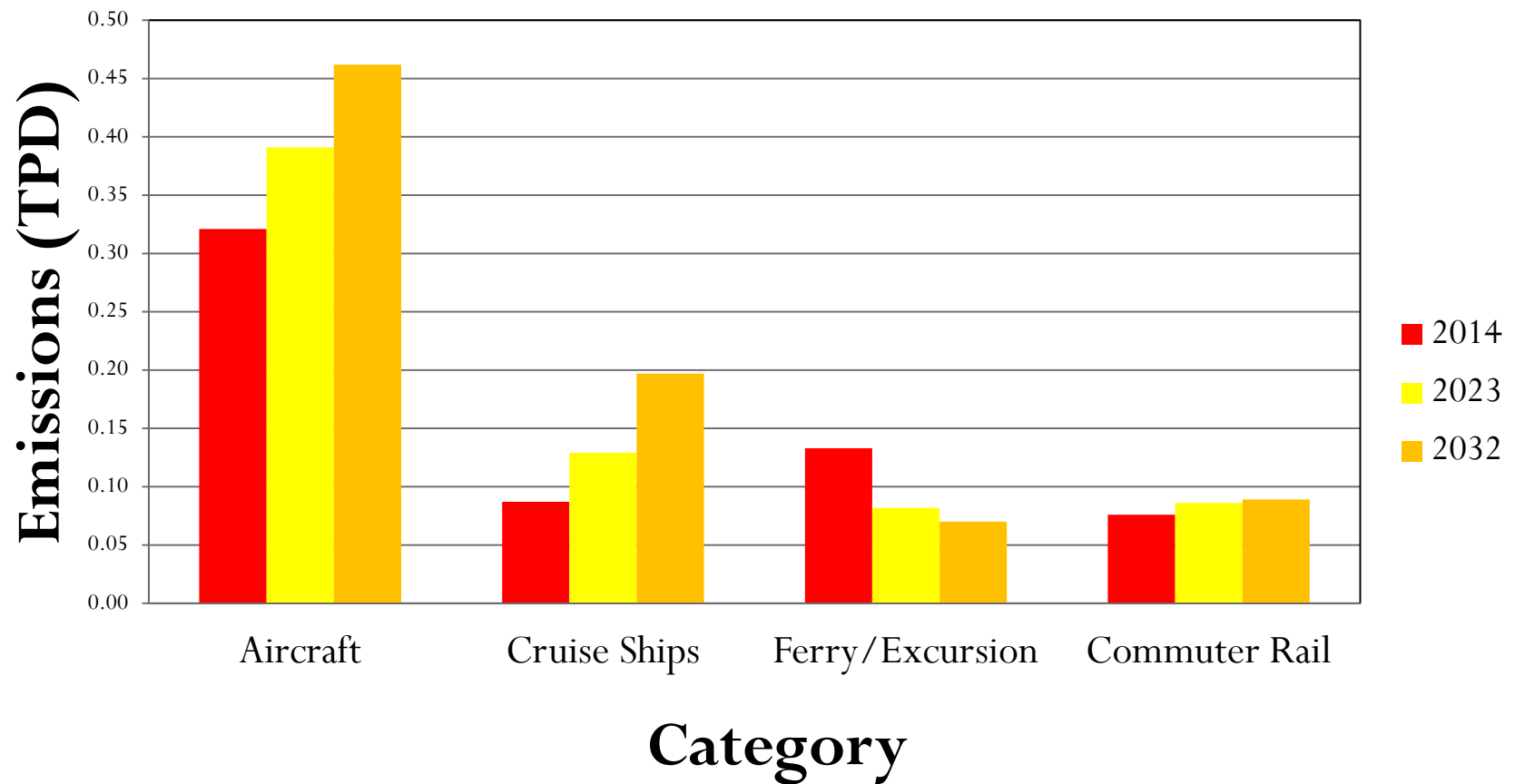
NOx Emissions by Category and Year



VOC Emissions by Category and Year

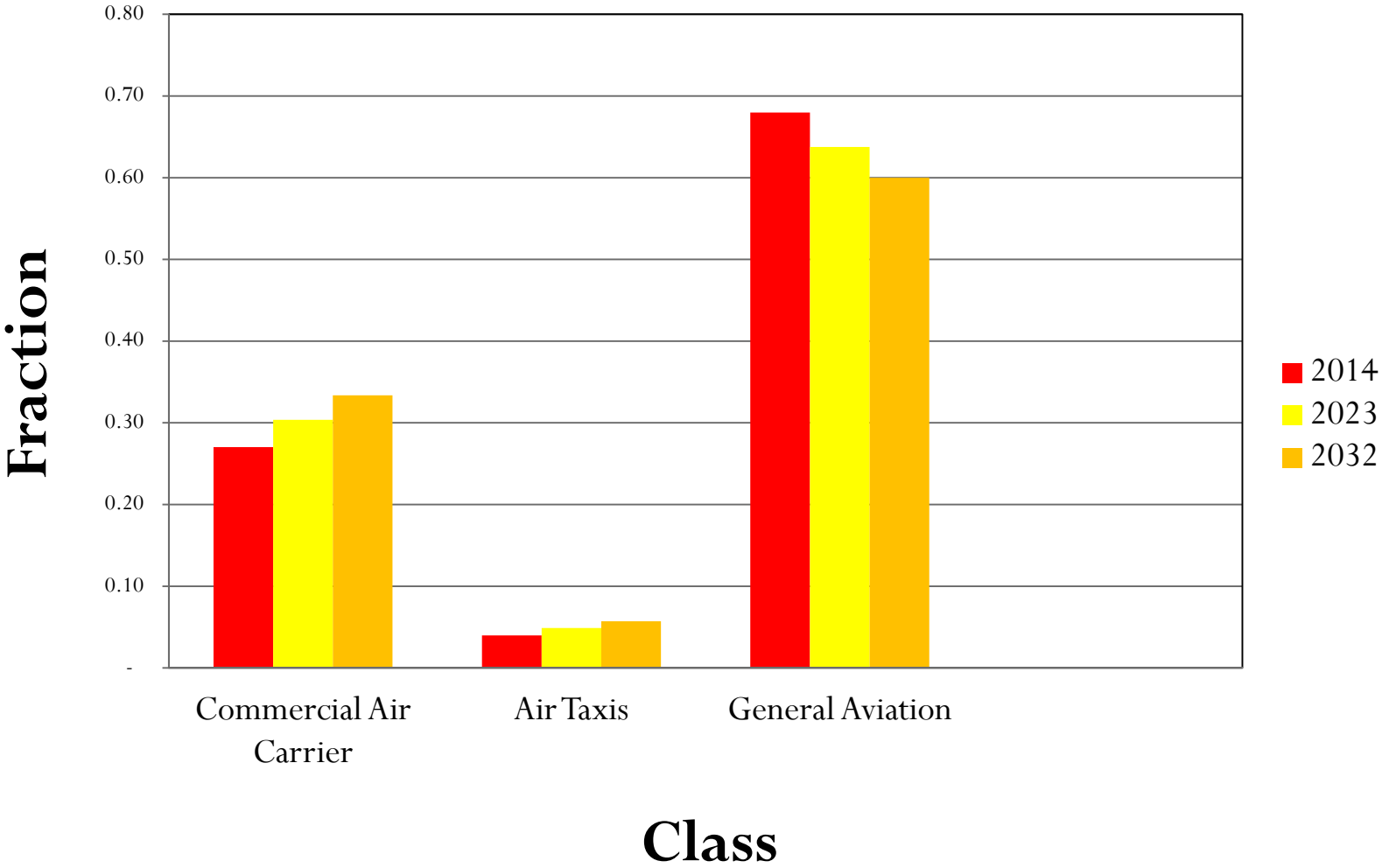


PM2.5 Emissions by Category and Year

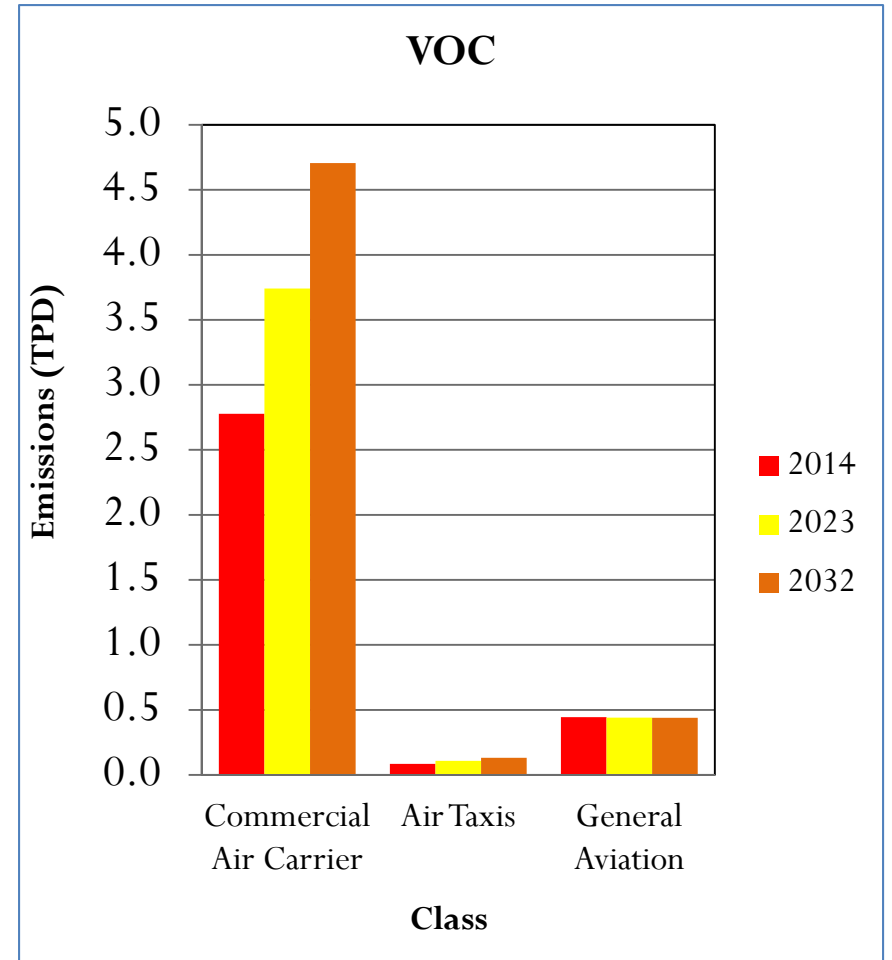
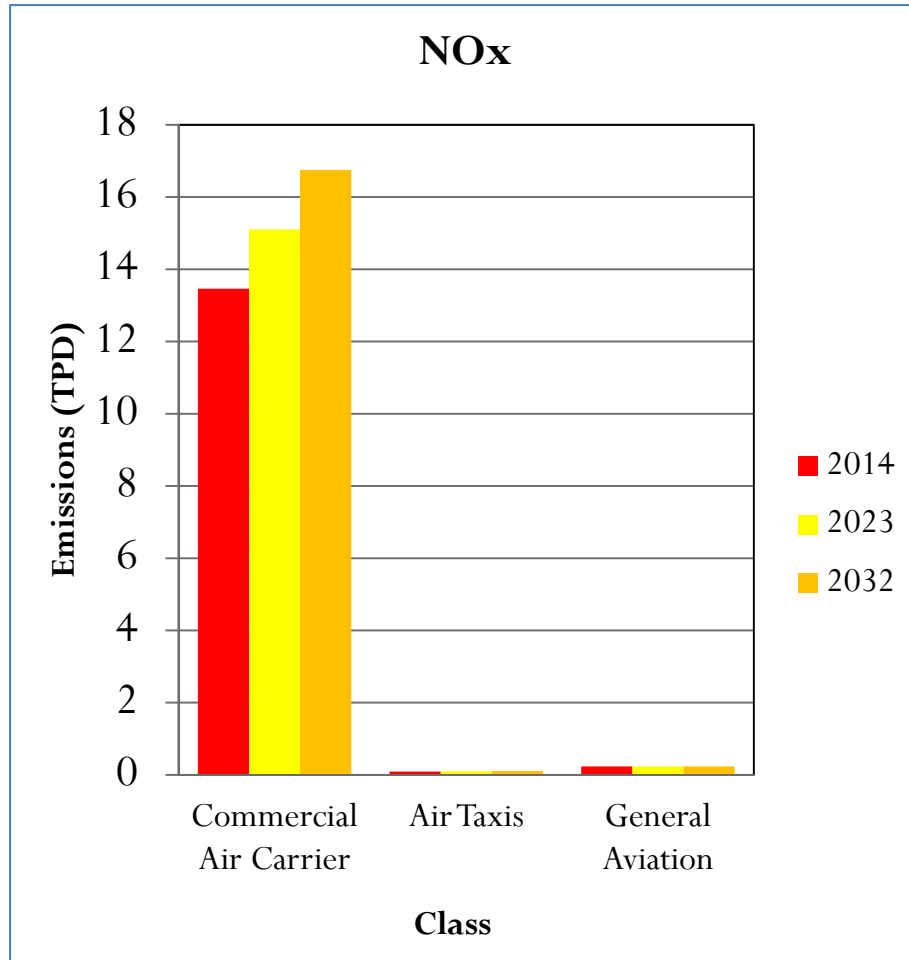


Aircraft

Aircraft Activity – Landings and Takeoffs (LTO)

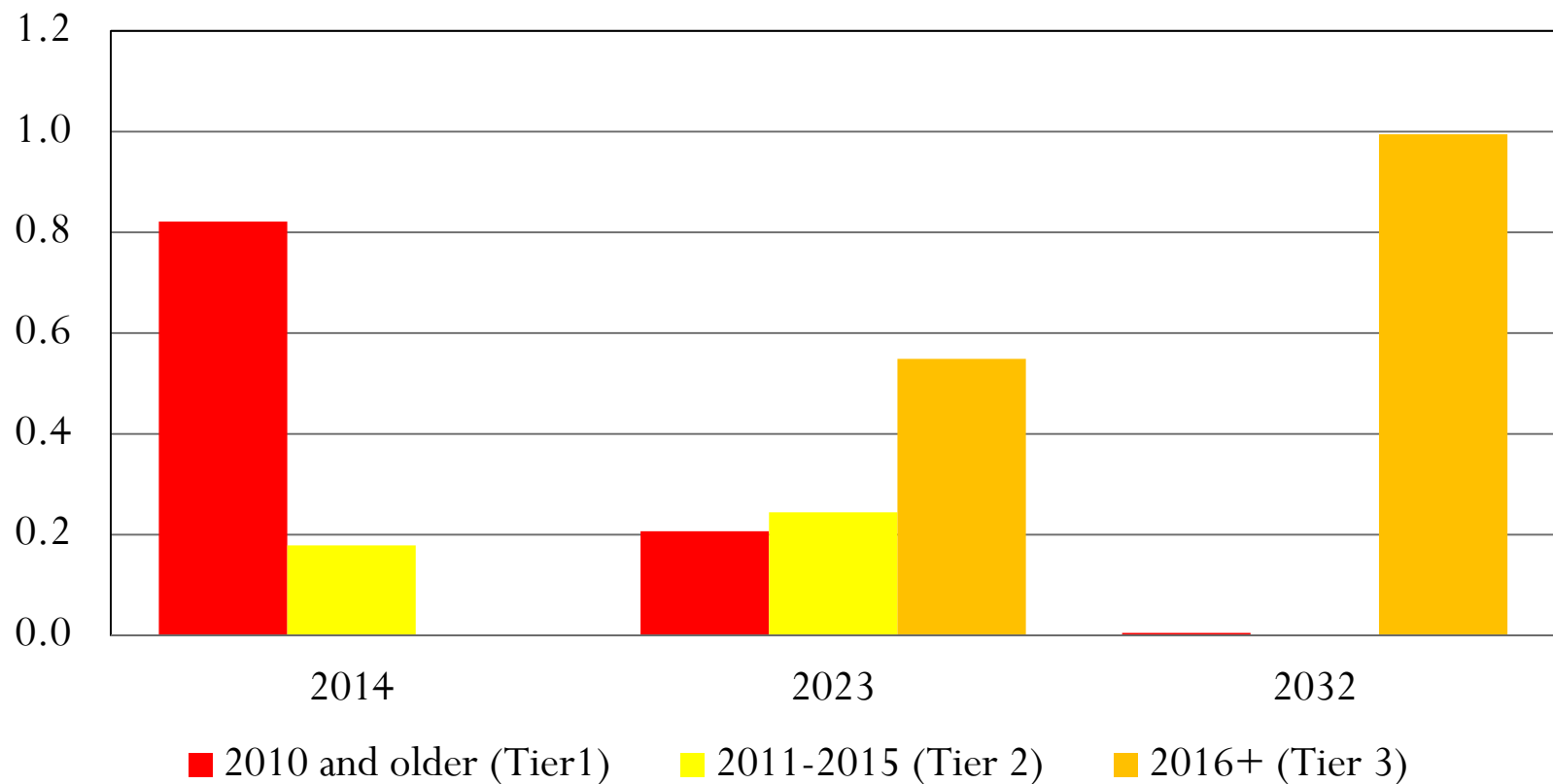


Aircraft Emissions by Class

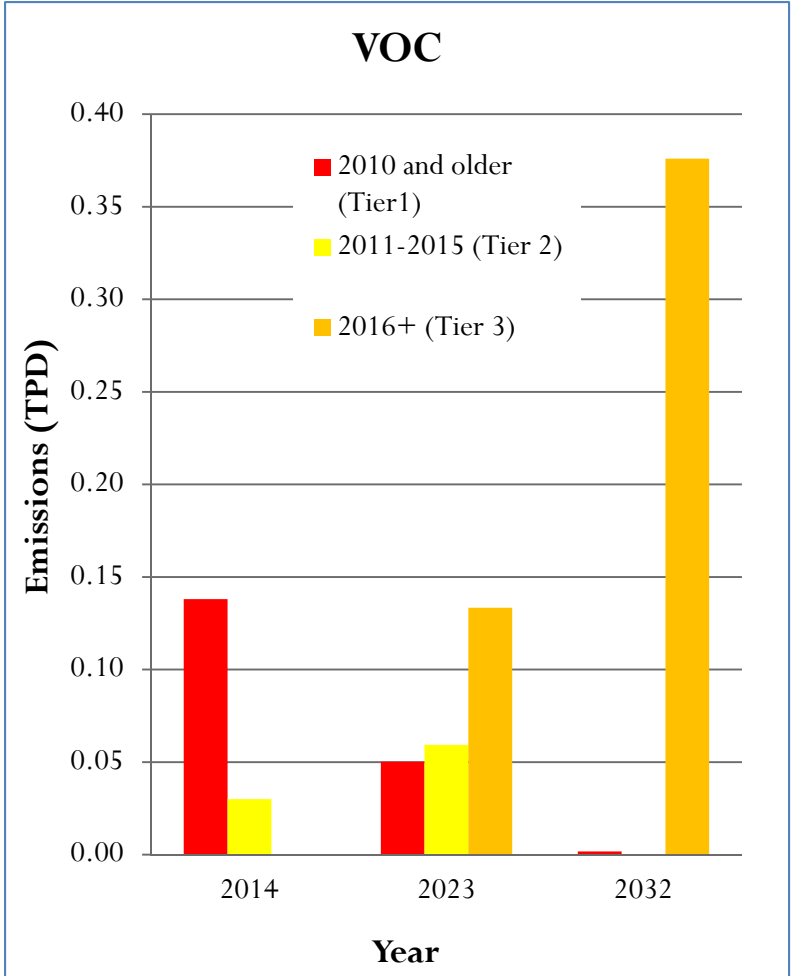
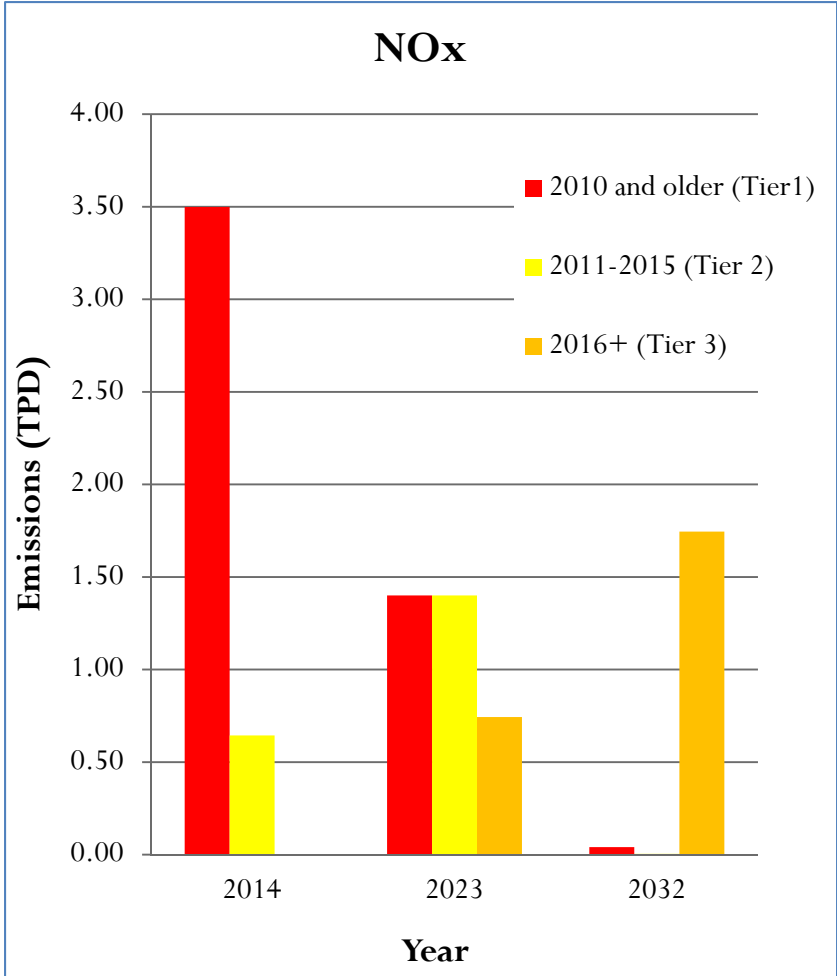


Cruise Ships

Fraction of Cruise Ship Fleet by Tier

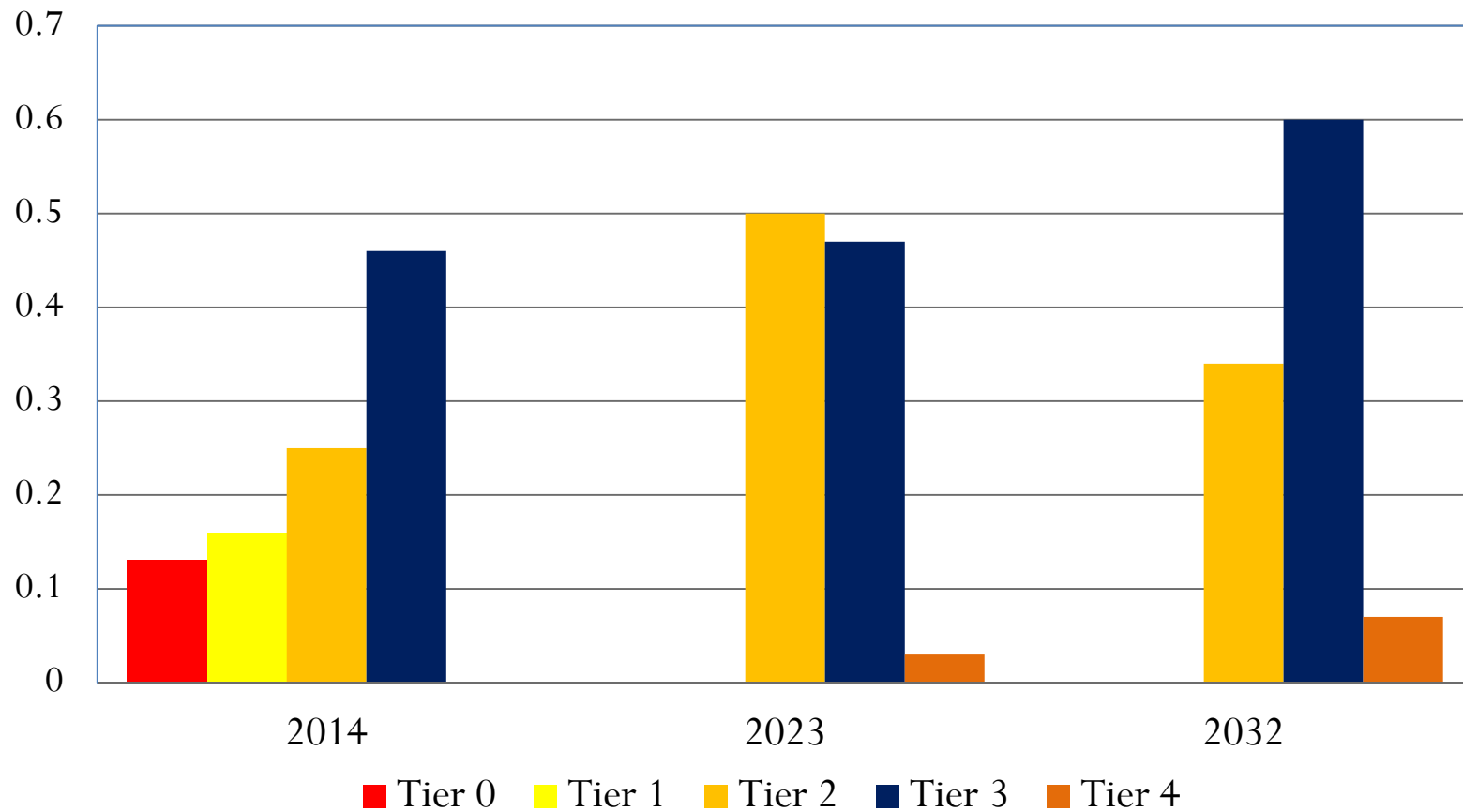


Cruise Ship Emissions by Tier

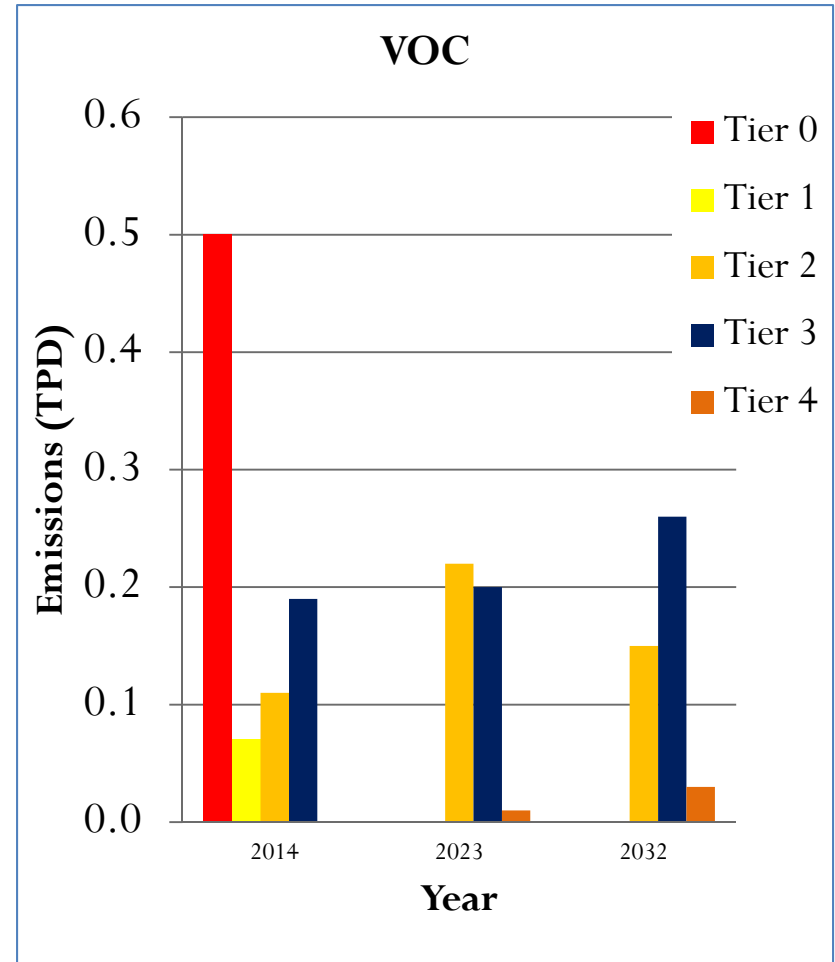
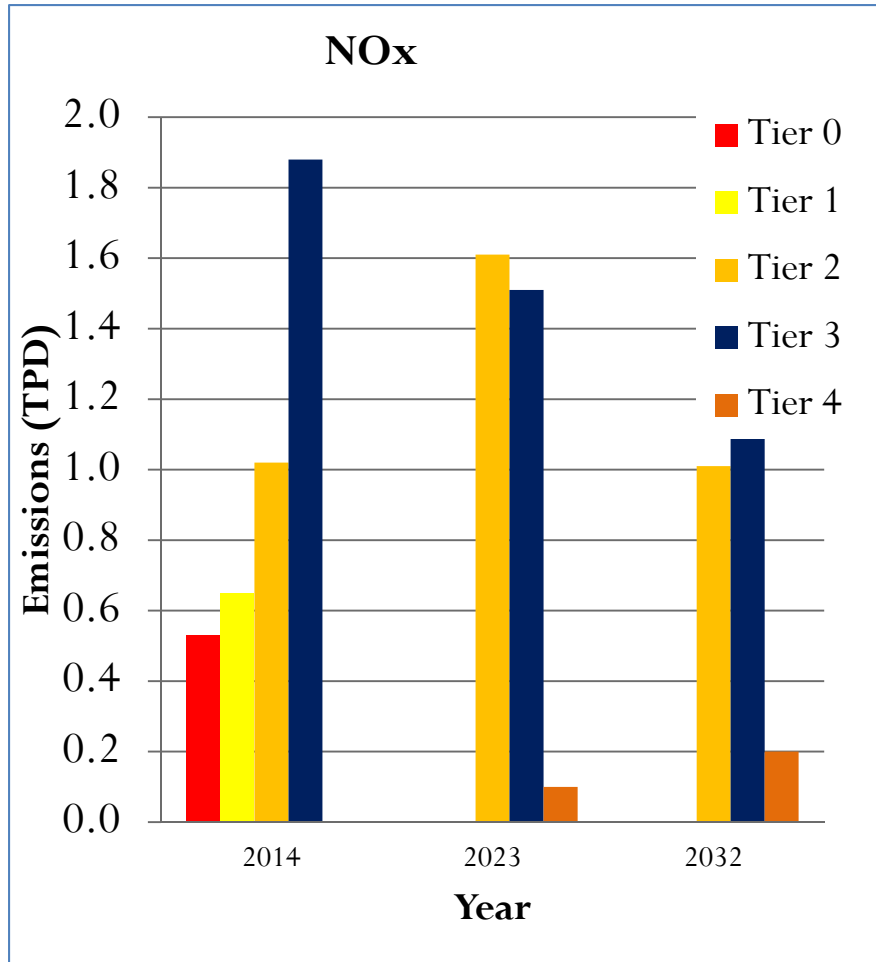


Ferry / Excursion Vessels

Fraction of Ferry/Excursion Ship Fleet by Tier

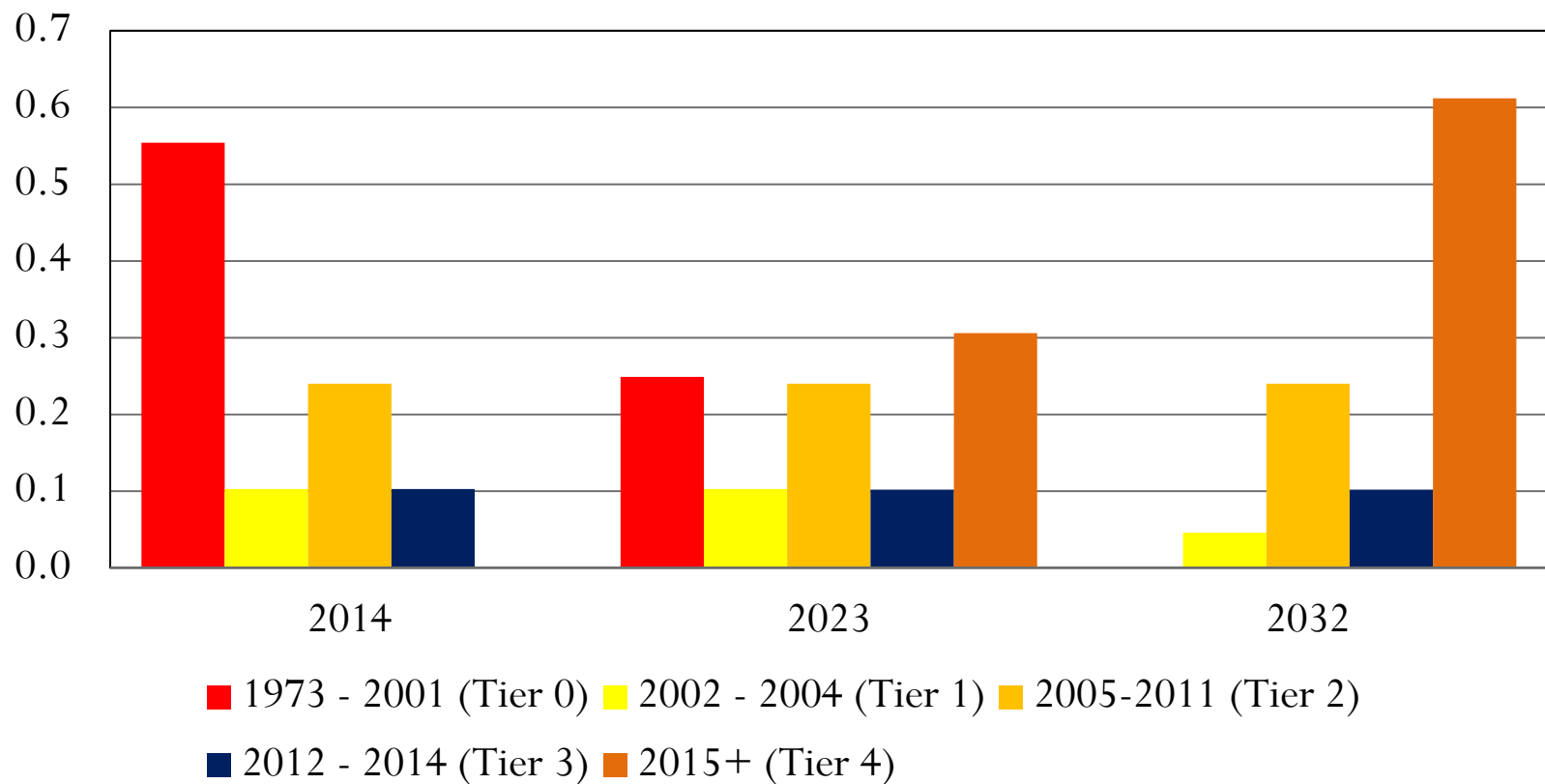


Ferry/Excursion Vessel Emissions by Tier



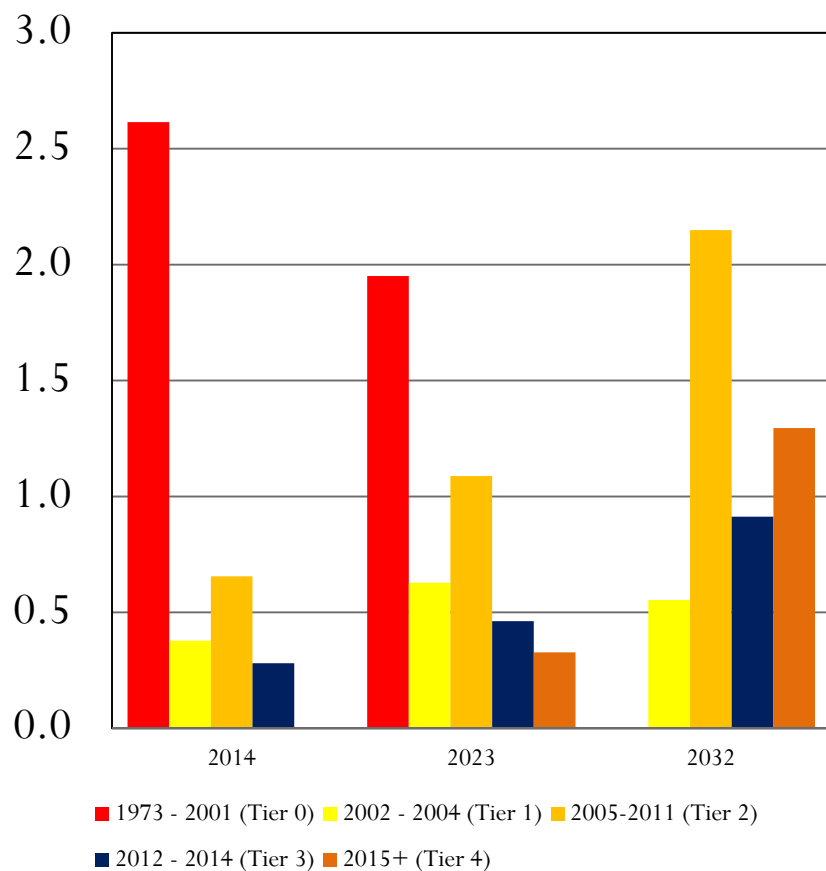
Commuter Rail

Fraction of Commuter Rail Fleet by Tier



Commuter Rail Emissions By Tier

NO_x (TPD)



VOC (TPD)

