

Emission Impacts of Tier 3 Fuel

Kip Billings

Joint Policy Advisory Committee

November 6, 2014

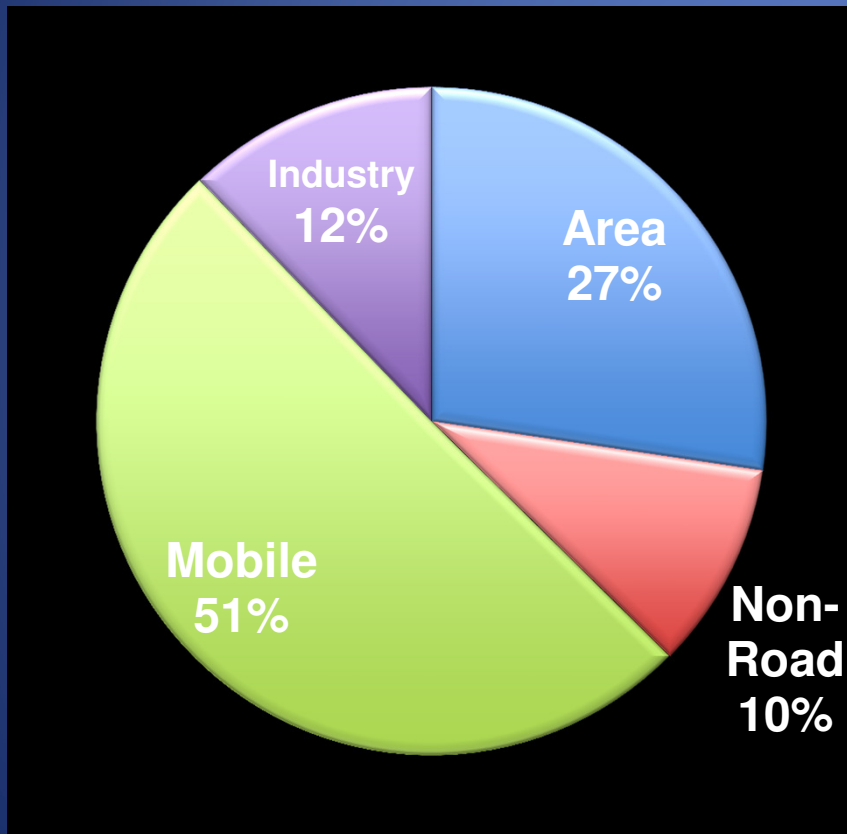


WASATCH FRONT REGIONAL COUNCIL

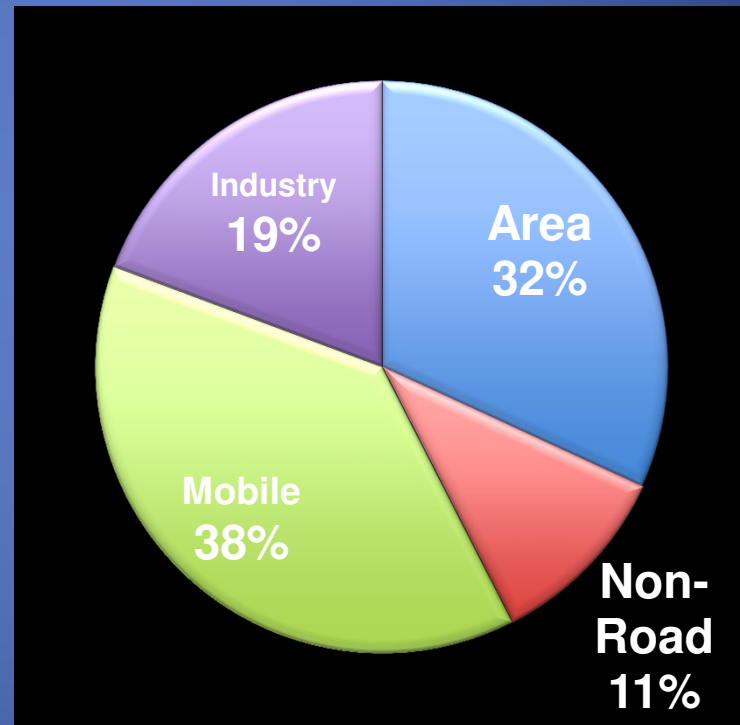
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Where do Emissions Come From?

PM2.5 - 2010

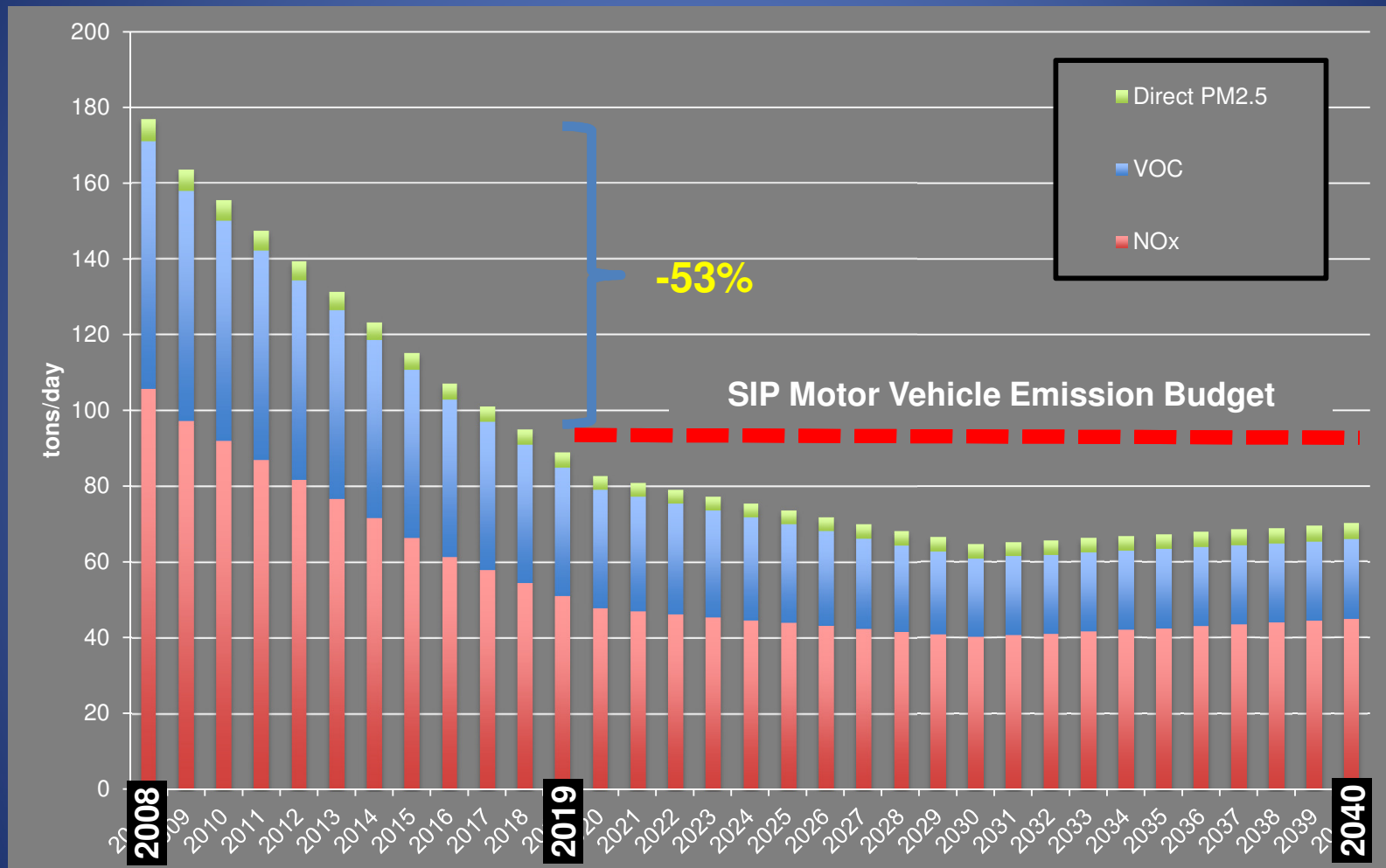


PM2.5 – 2019



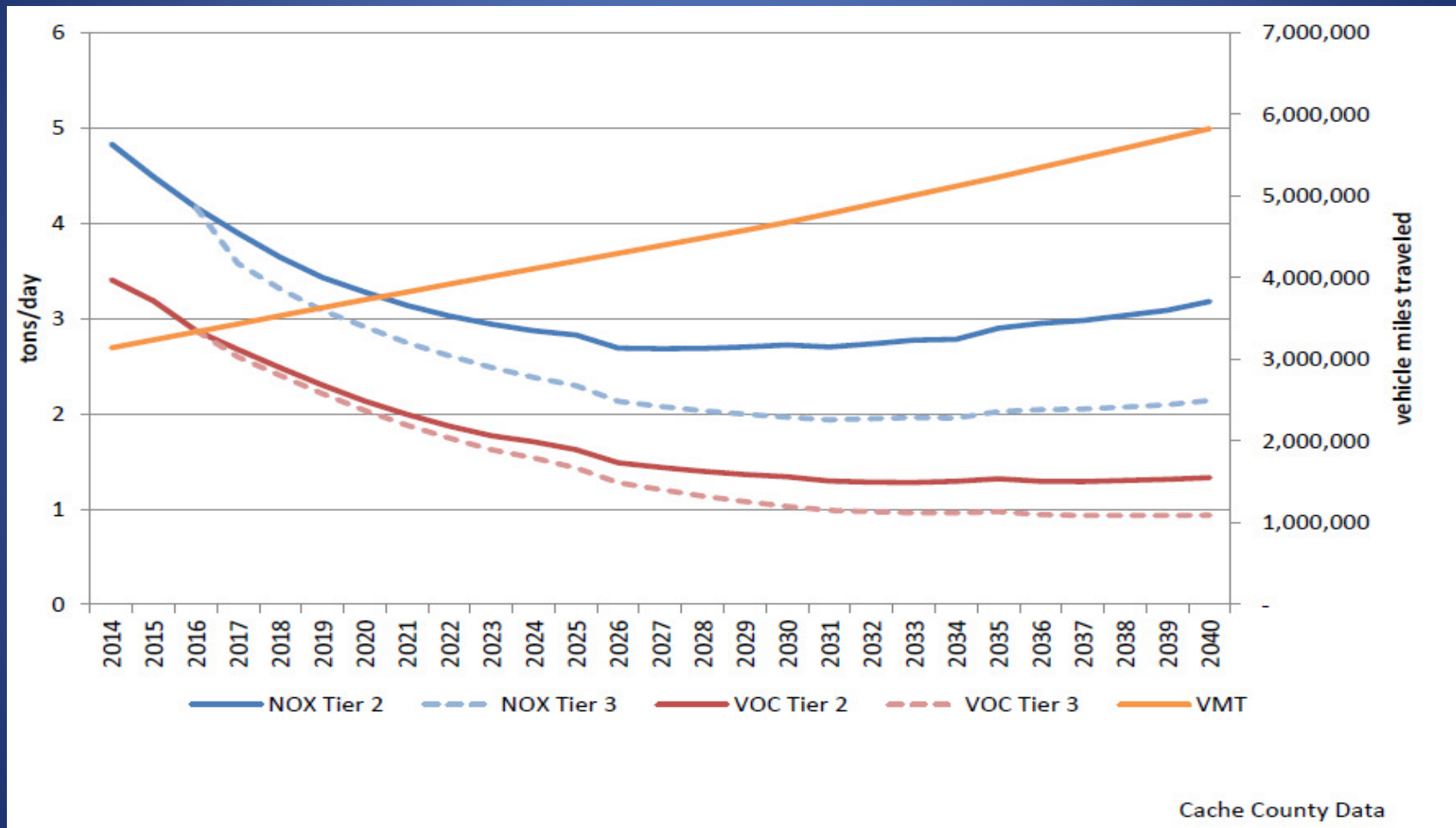
Wasatch Front Area Vehicle Emission Trends - PM2.5

Unified Transportation Plan



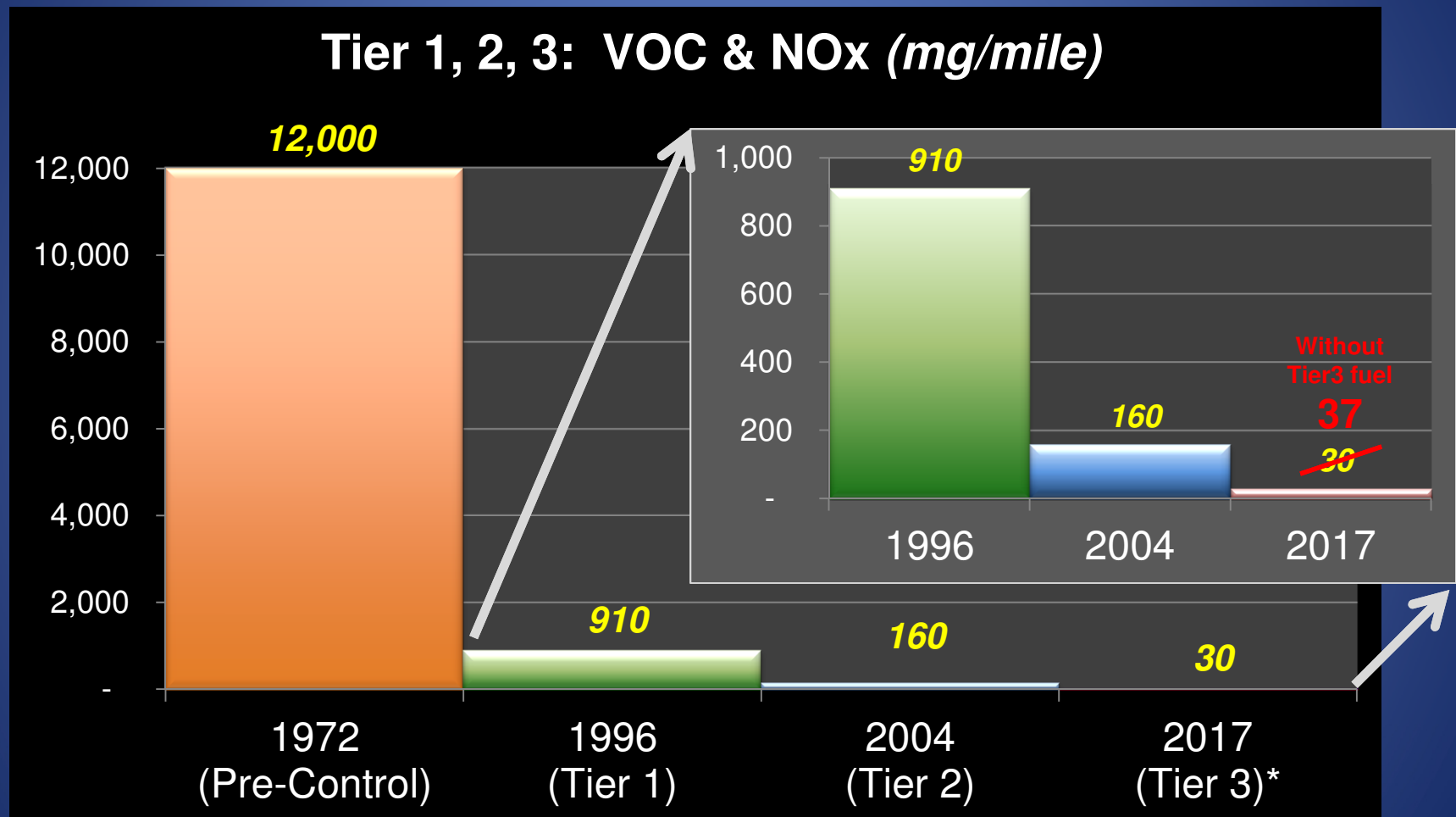
Tier 2 vs Tier 3 Vehicle Emission Trends

NOx & VOC



Cache County Data

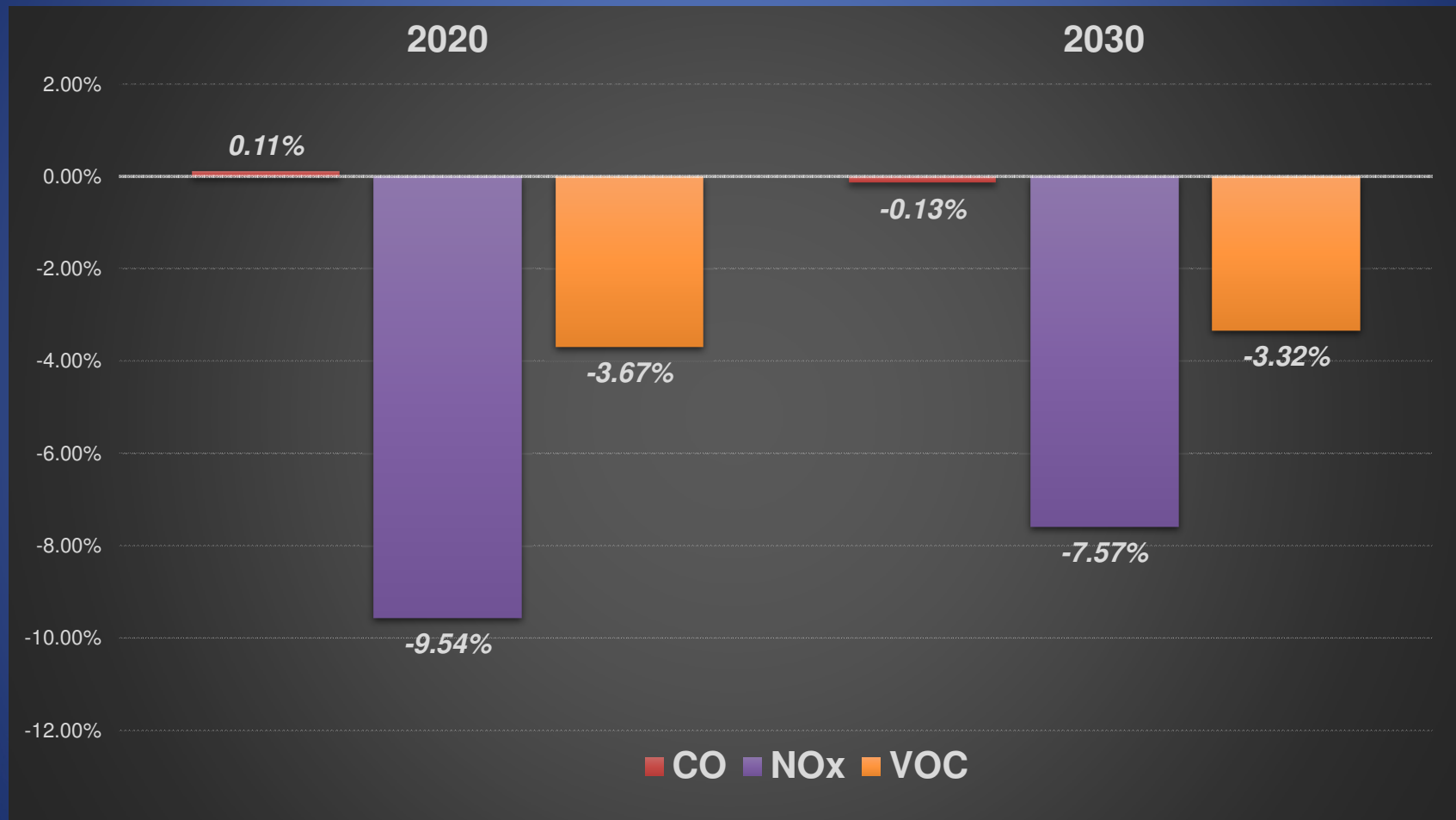
Vehicle Emission Standards



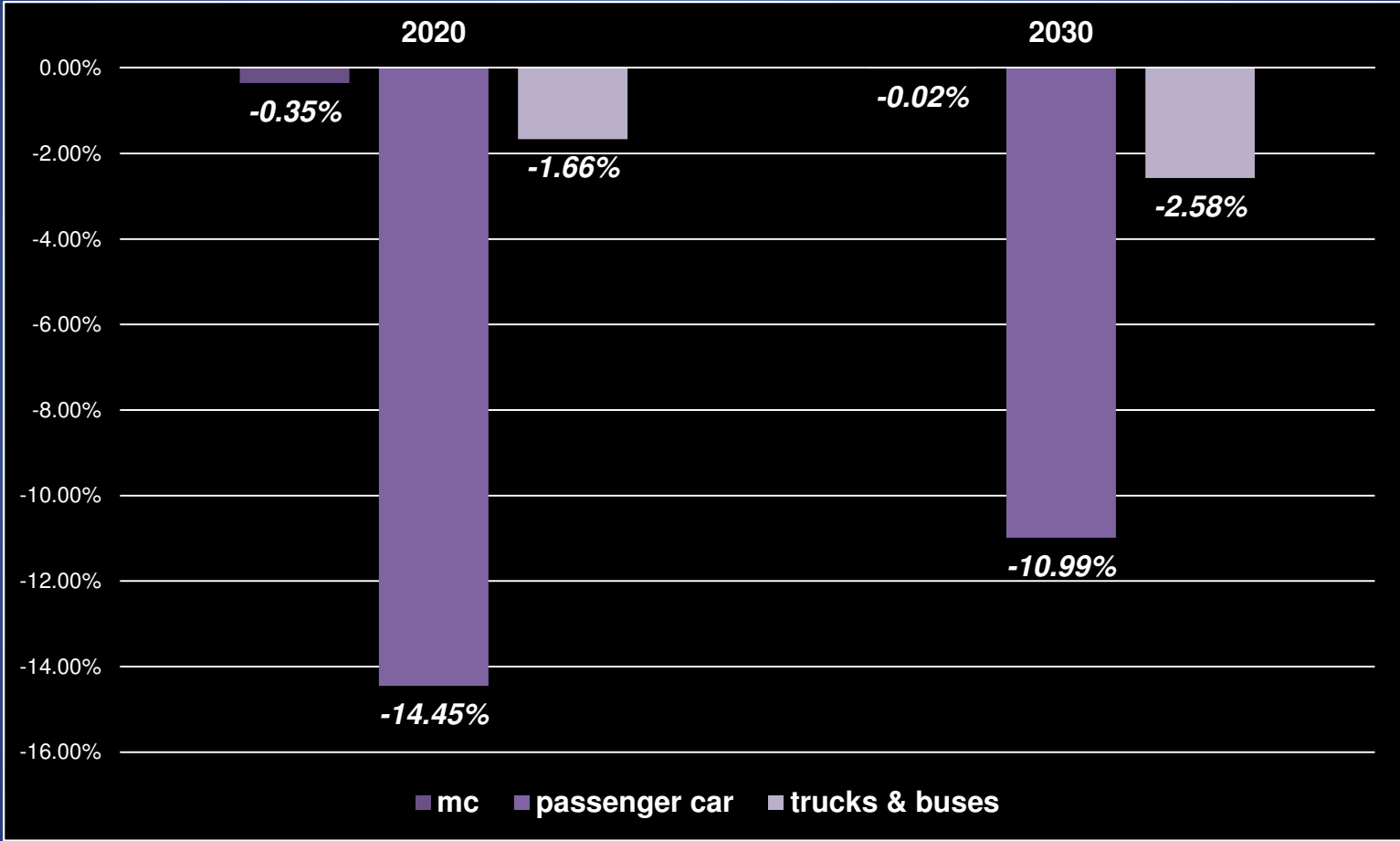
**30 mg/mile is comparable to a Honda Civic CNG.*

Utah is not guaranteed to receive Tier 3 fuel.

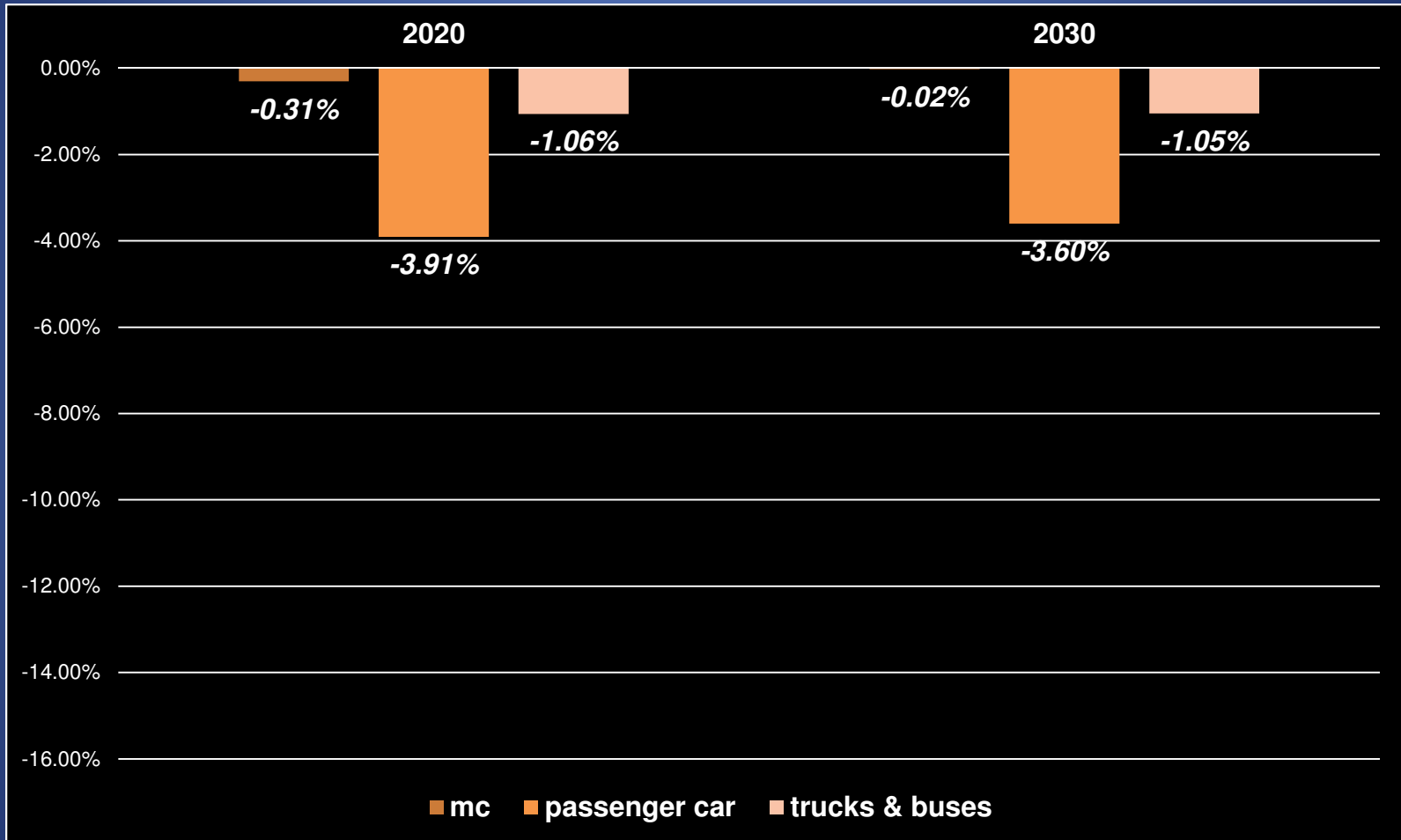
Percent Emission Reduction from Vehicles Tier 3 Fuel vs Existing Fuel



Percent Emission Reduction - NOx Tier 3 Fuel vs Existing Fuel

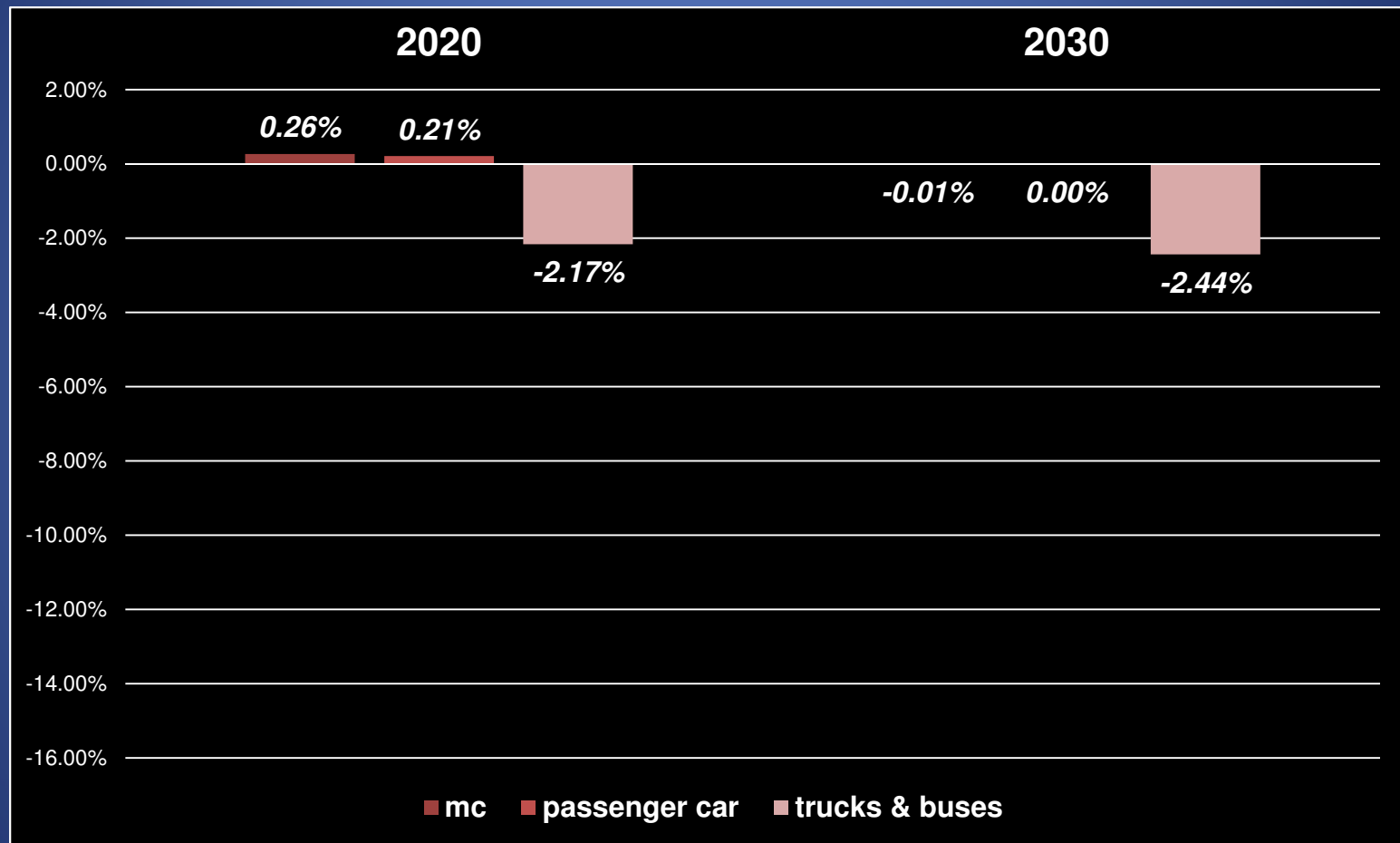


Percent Emission Reduction - VOC Tier 3 Fuel vs Existing Fuel

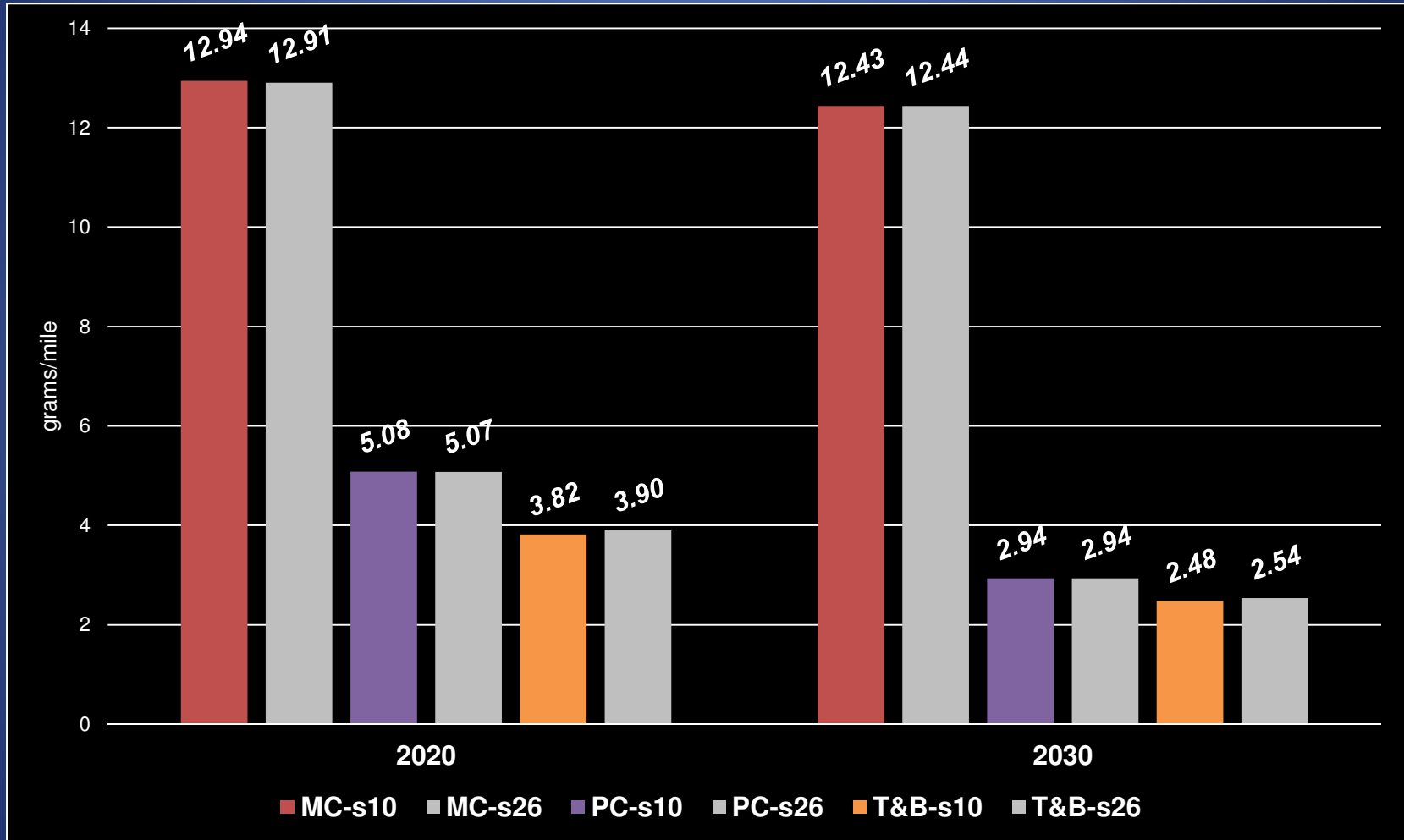


Kip Billings
kip@wfrc.org
801.363.4230 x1115

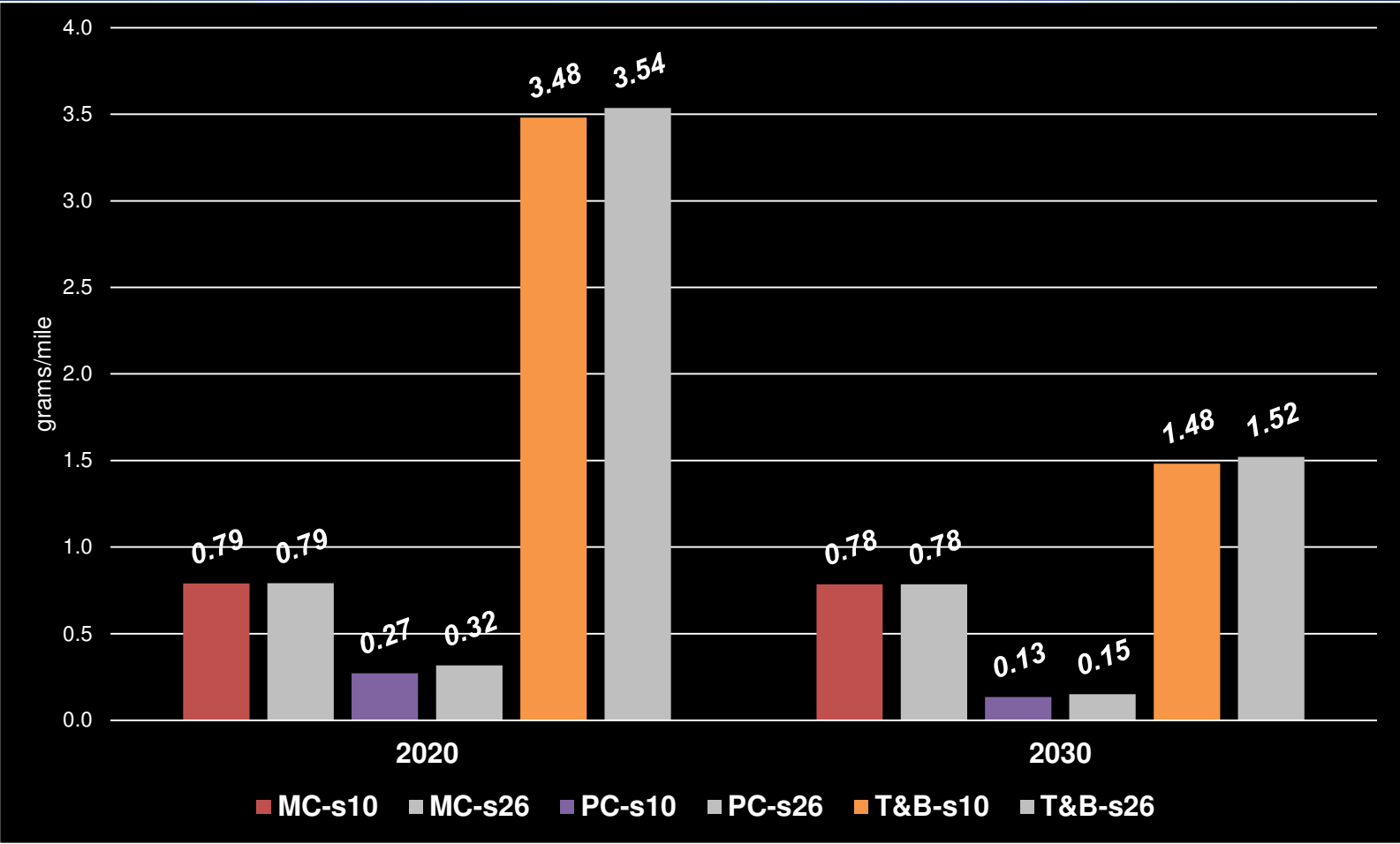
Percent Emission Reduction - CO Tier 3 Fuel vs Existing Fuel



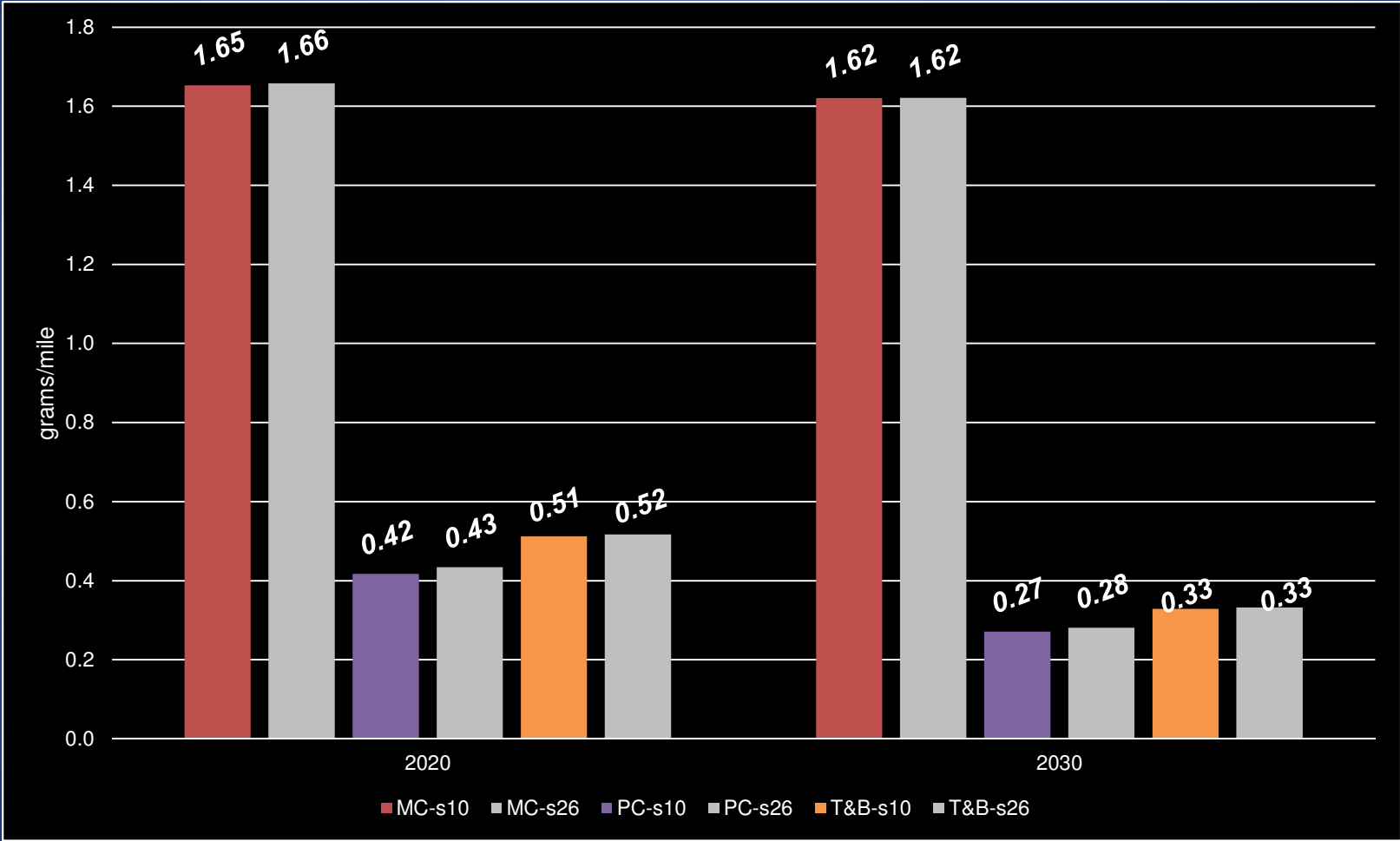
CO Vehicle Emission Rates Tier 3 Fuels vs Existing Fuel



NOx Vehicle Emission Rates Tier 3 Fuels vs Existing Fuel

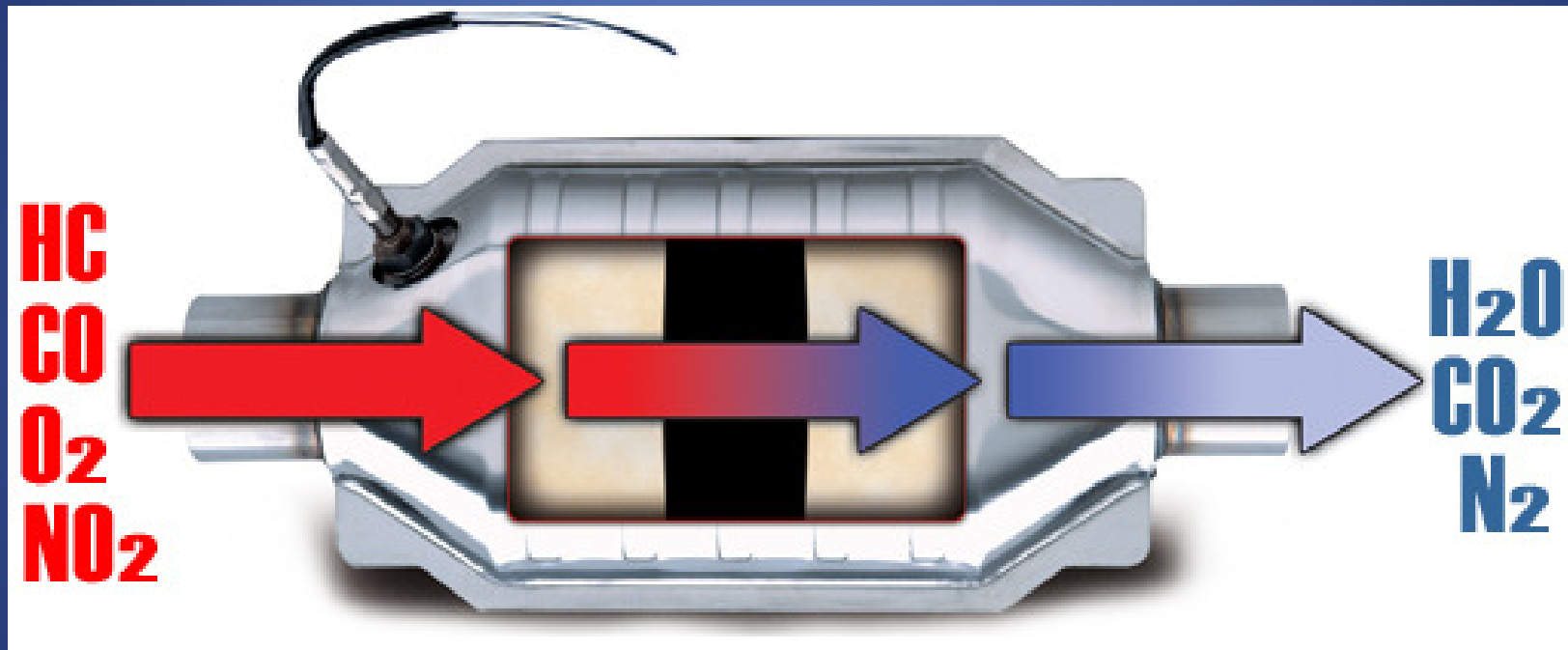


VOC Vehicle Emission Rates Tier 3 Fuels vs Existing Fuel

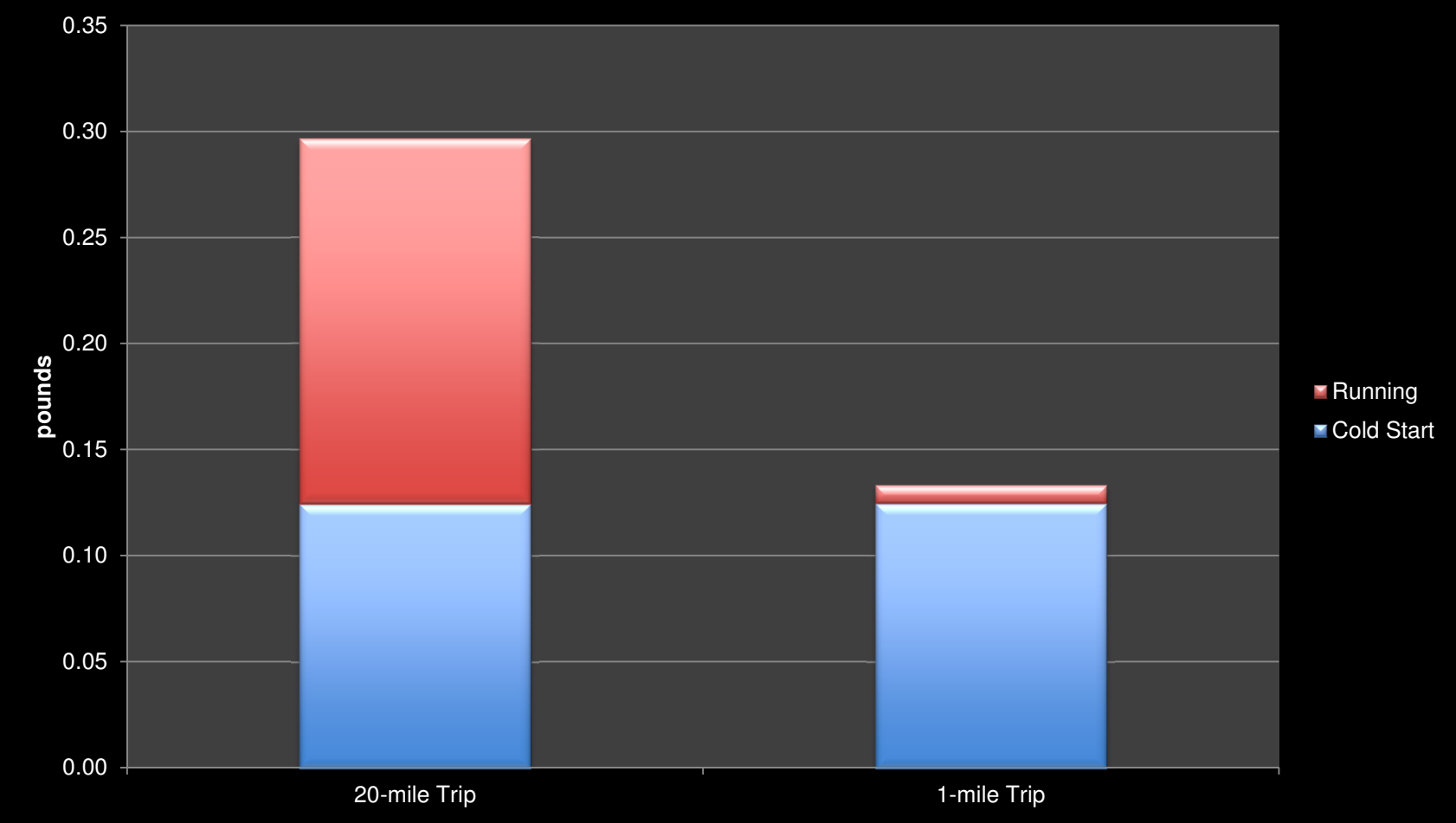


Catalytic Converter

Vehicle Emission Technology



Vehicle Cold Start Emissions



Cold Starts



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