

METRO EXPRESSLANES

Metro ExpressLanes are Green Corridors

Providing more travel options, reducing congestion and improving air quality:

Metro ExpressLanes reduce traffic congestion and air pollution emissions on the I-10 and I-110 freeway corridors and benefit the environmental justice communities located adjacent to these corridors. Air pollution emissions are 250% higher under congested conditions than during free-flowing traffic. So when traffic congestion exists, not only are people frustrated by not getting where they need to go, but they cause additional air pollution by not getting there as quickly.

The Metro ExpressLanes Greenhouse Gas (GHG) Emission Reduction is Equivalent to:

- > Removal of **12,593** passenger vehicles per year
- > **7,195,610** less gallons of gasoline consumed per year
- > **149,285** less barrels of oil consumed per year
- > Reduction in electricity use of **7,994** homes per year
- > Reduction in energy use of **5,585** homes per year

KEY FEATURES DRIVING PROGRESS & SUSTAINABILITY

GREEN TECHNOLOGY & RENEWABLE ENERGY

- > Solar panels and LED lights on ExpressLanes and at transit stations
- > Adds 59 clean fuel transit buses and increases service frequencies

SUSTAINABILITY

- > Dynamic pricing
- > Promotes bicycle, pedestrian, and transit

- > Net toll revenues must be reinvested in transit and carpool lane improvements in the corridor where they are generated

HEALTHIER AIR

- > Reductions in both smog and toxic air contaminants

ENVIRONMENTAL JUSTICE AIR QUALITY ANALYSIS

- > No adverse impact on EJ communities in the corridor

By the Numbers	Emissions Reductions (kg/day)*						
	SMOG			TOXIC AIR		Total	GHG
Program Elements	ROG	CO	NO _x	PM ₁₀	PM _{2.5} **		
ExpressLanes on I-10 & I-110	48.81	782.58	207.96	19.81	18.29	1,014.54	118,844.86
ExpressLanes Operations Incident Management	>50.00	>2.50	>11.50	N/A	N/A	>64.00	>5,200.00
ExpressPark	12.15	363.37	34.34	4.65	4.25	414.51	51,666.71
New Transit Operations	23.49	314.07	28.49	16.43	15.11	382.48	N/A
Transit Signal Priority Extension	0.90	6.98	5.71	0.18	0.17	13.77	140.90
GRAND TOTAL	>135.35	>1,420.69	>288.00	41.07	37.75	>1,889.3	>175,852.47

ACCOUNTABILITY: LESS TRAFFIC. CLEANER AIR.

- > Monthly reports will be published to monitor and provide adjustments to the Program.
- > State law requires a performance report to the legislature by December 2014 to include any potential reductions in greenhouse gas emissions that are attributable to congestion reduction resulting from the Metro ExpressLanes.
- > Federal grant requires environmental analysis that utilizes the EPA MOVES (Motor Vehicle Emission Simulator) model. The emissions analysis will consider VOC, NOX, PM2.5, and CO2. It will also assess noise impacts using the FHWA Traffic Noise Model.



*Source: CRD Project: Congestion Mitigation/Air Quality Analysis, The Better World Group, January 2009

**PM 2.5 emissions are a subset of PM 10 emissions; thus, they are excluded from the emission reductions totals to avoid double counting.

