



On Moving Sustainability: It's Really About the People

2019 Sustainability & Multimodal Planning Workshop
July 31, 2019



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" Do we REALLY need these ? "

Only in America...



**do we accept weather predictions from
a rodent but deny climate change
evidence from scientists.**






SUSTAINABILITY IS BEYOND OPERATIONAL BENEFITS

Transit: Inherently a sustainable operation

- 1) Reduce VMT
- 2) Reduce Congestion
- 3) Land Use Co-Benefits


Performance Metrics	2012	2013	2014	2015	2016	2017	Trends	
							Since 2016	Since 2012
 CLIMATE								
Greenhouse Gas Emissions <i>(Pounds CO₂e per Vehicle Revenue Mile)</i>	8.61	8.37	6.85	6.72	6.68	6.74	0.8%	-21.7%
Greenhouse Gas Displacement <i>(Net Emissions, MT CO₂e)</i>	-4,069	-3,933	-86,433	-73,827	-57,461	-40,758	-29.1%	901.6%

(adapted from 2018 Metro Energy and Resources Report)

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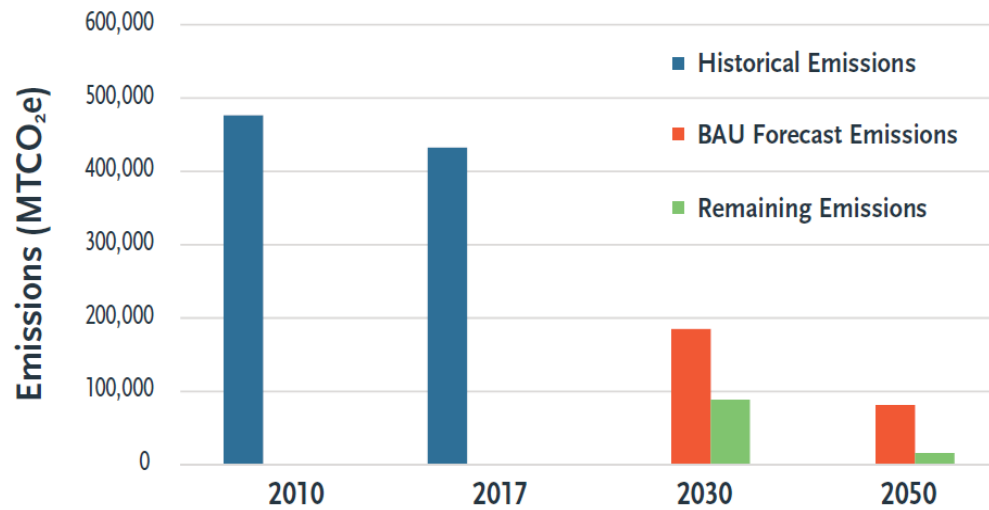
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(adapted from 2019 Metro Climate Action and Adaptation Plan)

Transit agencies can do more

MEASURING PROGRESS

Sustainability Commitment - Annual report on ten metrics across six indicator areas



Why do we do it?

- 1) Monitor performance – continual improvement
- 2) Identify trends to inform current and future initiatives
- 3) Celebrate successes across our communities
- 4) Increase transparency, share data and best practices



MAKING A DIFFERENCE



AIR QUALITY

- Bus Fleet: **40%** reduction in NOx emissions since 2012 (**82%** since 2008)
- Non-Revenue Fleet: **26%** reduction in NOx from 2016 through hybrid fleet conversions and lower mileage



CLIMATE

- **22%** reduction in greenhouse gas emissions (GHG) since 2012 from cleaner electricity grid
- Metro reduces more GHG emissions through VMT reduction (than it produces from its operations) by a factor of **1.1x**
- Landfill diversion rate improved **35%** from 2016
- Not just recycling, waste reduction and material reuse best practices as well



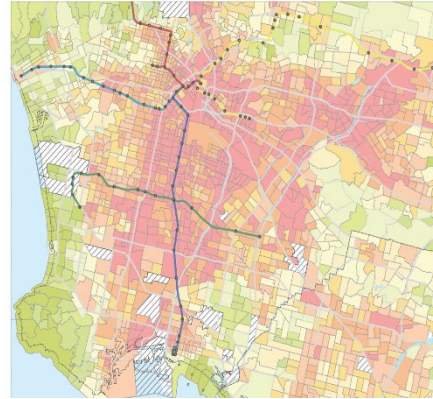
WASTE



CREATING AN IMPACT

ENVIRONMENTAL JUSTICE

Transit planning process and construction policies address long-term environmental equity and inclusion: reducing air pollution and improving quality of life.



SUSTAINABILITY COUNCIL

Advisory council of **26** sustainability sector representatives and stakeholder groups.



GROWING A GREENER WORKFORCE

Approx. **1,000** agency employees and community members had been trained and **~500** certified as sustainability professionals.



GREEN CONSTRUCTION POLICY

The Green Construction Policy (GCP) program has significantly reduced criteria air pollutants in densely populated areas of our region. Conservatively avoided **~\$400,000** in health care costs.

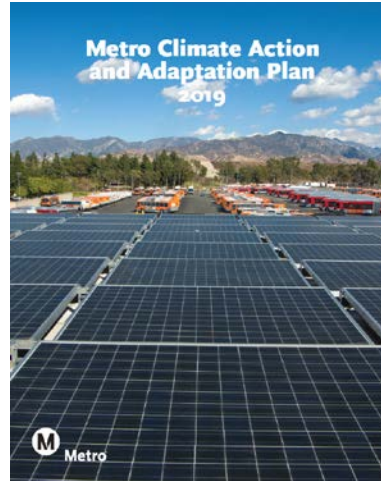


OPPORTUNITIES FOR ENGAGEMENT

ZERO EMISSIONS COMMITMENT

Towards a 2030 zero-emissions bus fleet goal; TEN years **ahead** of State mandate.

Thirteen strategies towards a 100% GHG reduction by 2050.



GREEN PROCUREMENT

Commence the process to **re-invent** how we are procuring for goods and services.



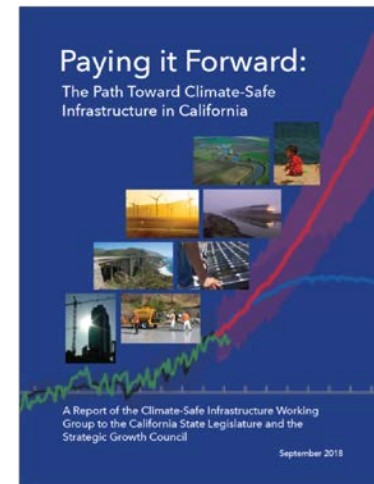
AN ECONOMIC OPPORTUNITY FOR ALL

Constantly working together with our stakeholders **to prepare** for capital and operations opportunities.



CLIMATE SAFE WORLD

Involvement and engagement in the State's Climate Safe Infrastructure Working Group provides direct insight on how we should build a climate safe future to **ensure** community sustainability and resiliency.



CHALLENGES



- Capacity to address all issues: *prioritization*
- Variable approaches to issues and solutions: *among agencies/partners*
- The irony of the volunteer: *commitment to the cause*
- Emerging issues and disruptors: *technology, process, outcome combinations*
- Where are you in the paradigm: *your career perspectives, new/retirement*
- Others

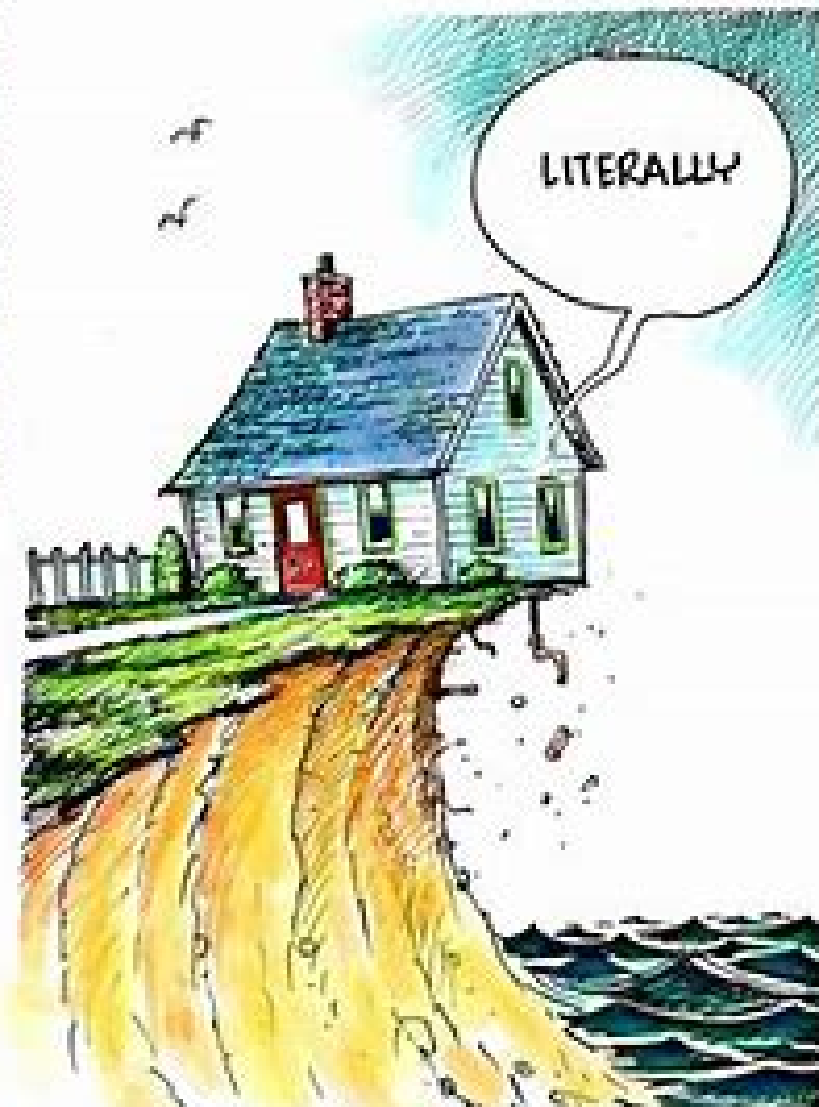


for you





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Meanwhile, in 2100...



QUESTIONS/DISCUSSION



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