



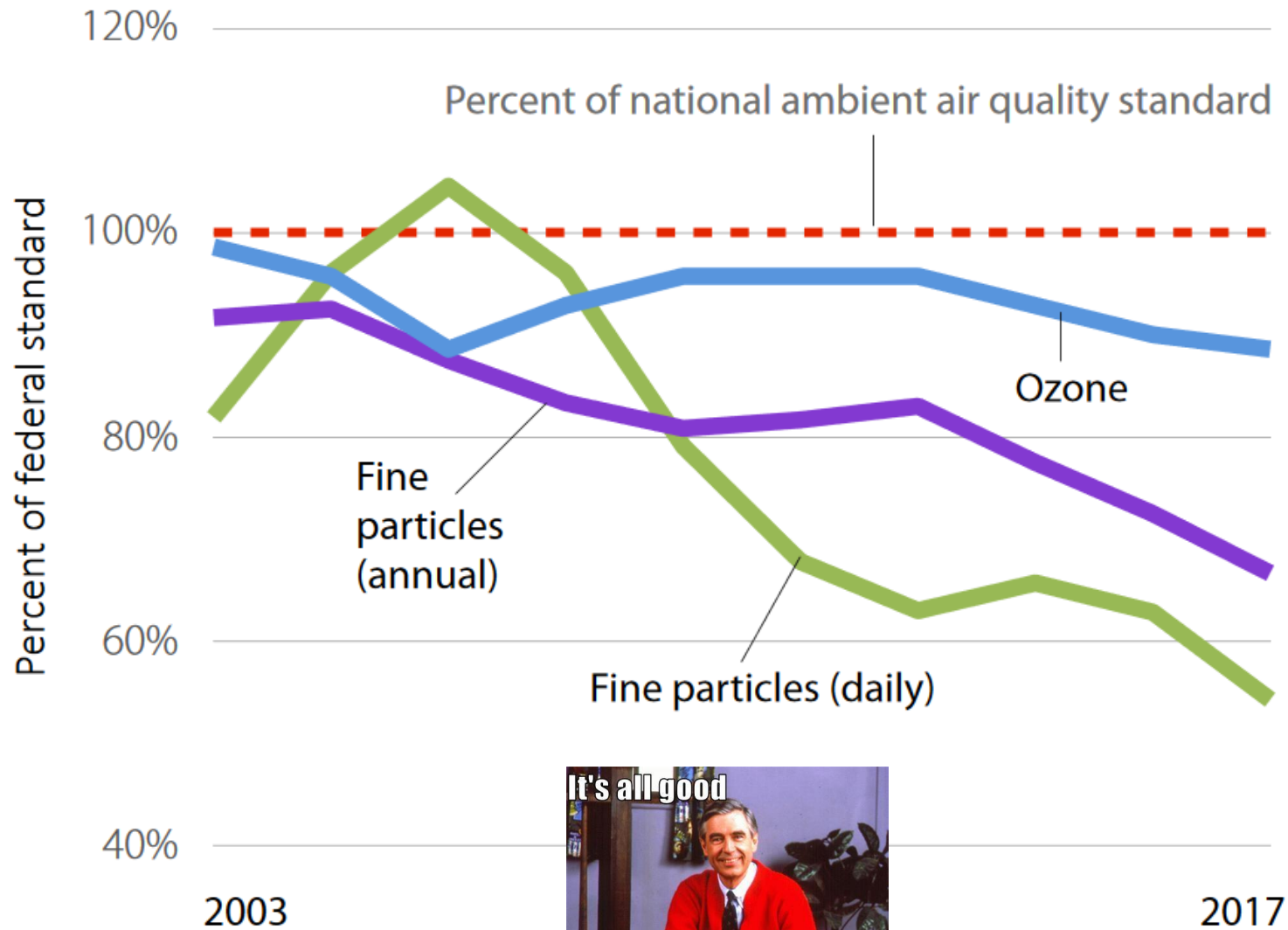
National Association of Clean Air Agencies December 16, 2020

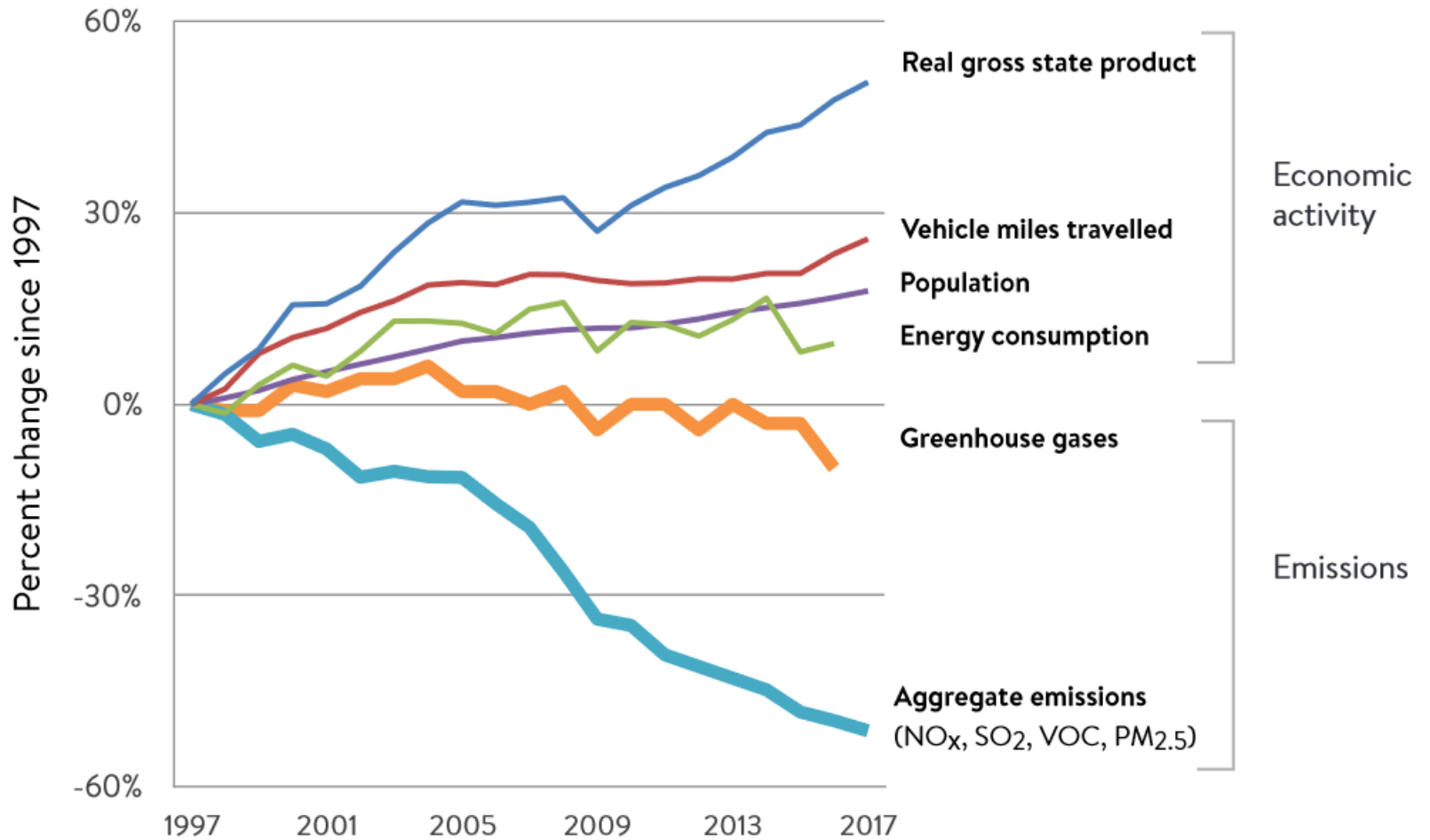
Doing Towboat Donuts in the Mississippi and the Joys of Cleaning Up Old Diesel Engines

Eric David, State Administrator
Minnesota Pollution Control Agency
eric.david@state.mn.us

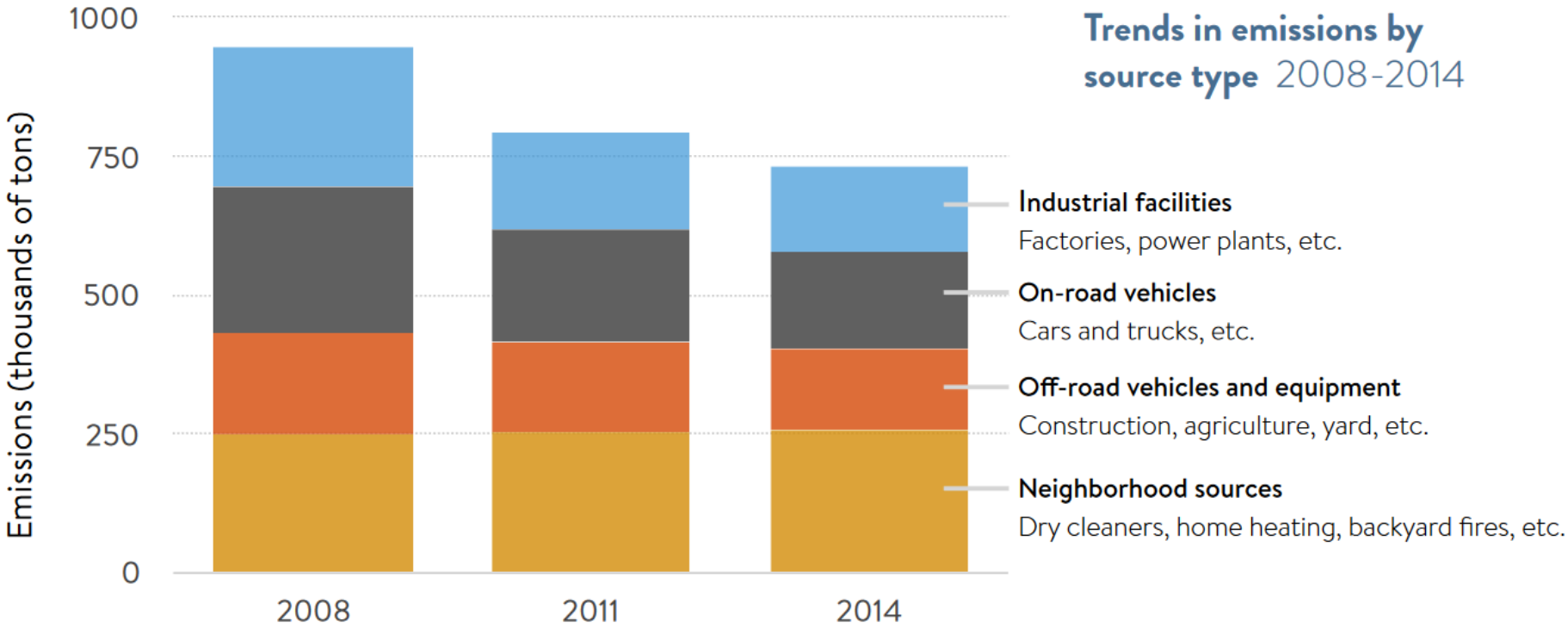
Bill Droessler, Program Development Officer
Environmental Initiative
bdroessler@en-in.org

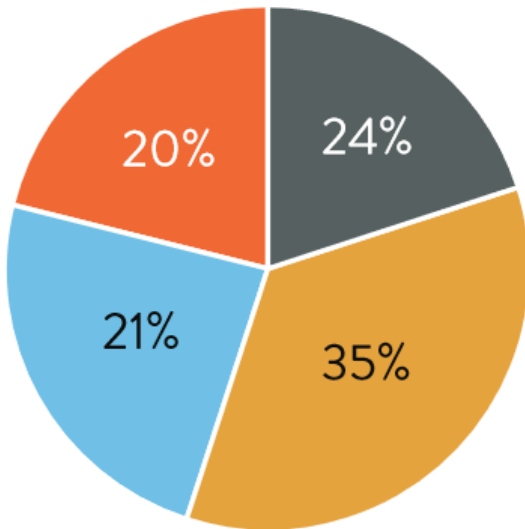
Trends in ozone and fine-particle pollution in the Twin Cities 2003-2017





Trends in emissions by source type 2008-2014

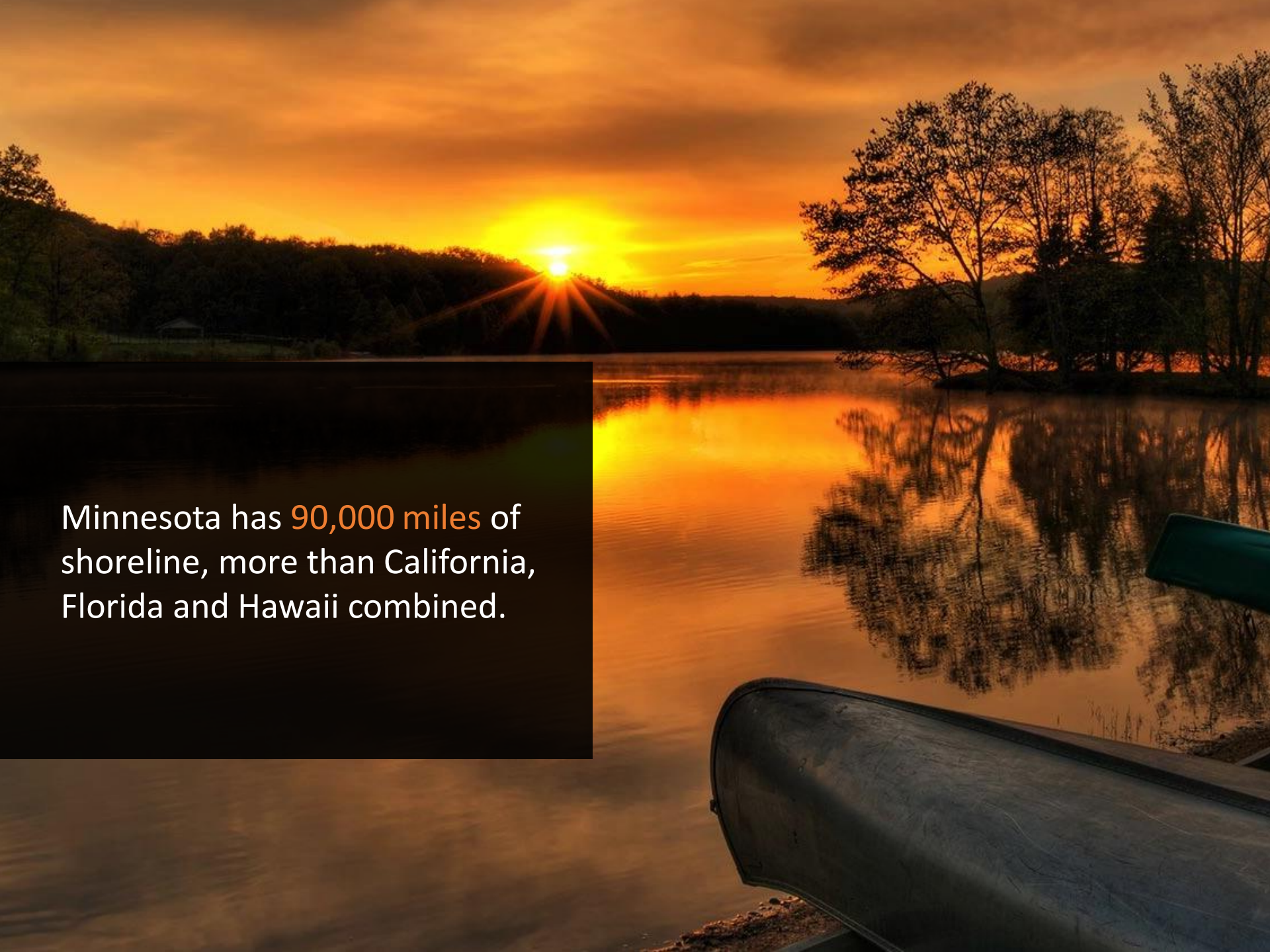




- On-road vehicles 24%
Cars and trucks, etc.
- Off-road vehicles and equipment 20%
Construction, agriculture, and yard, etc.
- Neighborhood sources 35%
Dry cleaners, home heating, backyard fires, etc.
- Industrial facilities 21%
Factories, power plants, etc.

Small and widespread sources are the largest portion of overall air pollution emissions in Minnesota.

Includes PM2.5, SO2, NOX, VOCs.
Source: MPCA 2014 emissions inventory

A serene sunset scene over a calm lake. The sun is low on the horizon, creating a bright orange and yellow glow that reflects on the water's surface. Silhouettes of trees and a forested hillside are visible against the bright sky. In the foreground, the dark, curved edge of a canoe is visible on the right side. A semi-transparent black box is overlaid on the left side of the image, containing text.

Minnesota has **90,000 miles** of shoreline, more than California, Florida and Hawaii combined.

“A River Runs Through It”





Diesel Emission Reduction Act (DERA)





DERA working in MN Ports

River Dredging boat
(check out the video!)



Tour Boat



Barge-loading crane





 Environmental
INITIATIVE

Powerful Partnerships, Effective Solutions

We **build partnerships** to develop collaborative solutions to environmental problems.



Doing Donuts

- The Itasca
- No smoke
- Legislators and the media dig it





Clean Air Minnesota is a diverse group of public, private, and community people and organizations working to develop, fund, and implement **voluntary projects that reduce air pollution.**



Roles

- Minnesota Pollution Control Agency
- Environmental Initiative – as a nonprofit, we can do things – and get others to do things – and do things for others
- Other governmental entities at multiple levels
- Private partners
- Leadership
- Work to strengths
- Common goals; shared responsibilities



Clean Air Minnesota Operations

- Voluntary partnerships
- Consensus driven
- Collaborative process
- Pilot projects to demonstrate possibility, proof of concept, refine business models, build capacity, no proprietary interest
- Unlikely allies and co-chairs: MN Chamber of Commerce, MN Center for Environmental Advocacy



Clean Air Minnesota Operations

- We do not all breath the same air
- Beyond NAAQS; exposure is exposure
- Stories and actions
- Did not get into this in a year and are not getting out of it in a year
- Go to their parties – and not just the professionals



The Clean Air Minnesota partnership officially launched at a kick-off featuring U.S. EPA Administrator Christie Todd Whitman and Minnesota Governor Tim Pawlenty as keynote speakers.



“

Very often, too often, entities, cities, states wait until there's a problem, wait until there has been pollution, wait until there are sanctions coming before they take action. Clean Air Minnesota is doing just the opposite. They have recognized, with increased smog, with increased alerts, there's a problem coming down the road. But instead of waiting for that problem to become a crisis, which would put you in violation of clean-air standards, we're taking action.

– Christie Todd Whitman, U.S. EPA Administrator



Project Green Fleet officially kicked off as a major, multi-year effort to retrofit diesel school buses with cleaner and safer equipment, allowing Minnesota's children to breathe easier.

Flint Hills Resources provided initial funding, which allowed for a statewide approach to the work. In 2006, Project Green Fleet expanded to cleaning up all eligible Head Start buses in partnership with Blue Cross/Blue Shield Foundation. The list of Project Green Fleet partners continued to grow to include Xcel Energy, Washington County, and the Bush Foundation.





After retrofitting every eligible school bus in the state, Project Green Fleet began cleaning up large, heavy-duty engines on trains, boats, and construction equipment. Today, approximately 3,200 buses and 1,400 heavy-duty diesel engines have been retrofitted or upgraded in Minnesota through Project Green Fleet.

“

Retrofitting the Itasca is not only the right thing to do for the environment, it's good for our business. This project will save us money in fuel consumption and the new engines will allow us to move more products while using less energy.

— Lee Nelson, president of Upper River Services (URS), 2018



It's an Art and a Science

- Have a plan - in engagement, fundraising, and working with partners
- Build momentum and trajectory - have a strategy, but be flexible and creative
- The big picture – maintain the proper line of sight for your work plan, objectives, and outcomes – both short-term and long-term



Some unsolicited advice

- **Trust** – who has it with funders, partners, and communities
- **Listen** – then put things together
- **Focus** - not just “bees, birds, and butterflies” and hard science outcomes/outputs
- **History** – of partners, communities, agencies
- **Transparency** – of process, expectations, desired outcomes





<https://www.pca.state.mn.us/air/lm-marine>