



clean  
cars  
mn



## Adopting clean car standards

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# Our mission

Protect and improve the environment and  
human health.

# What is Clean Cars Minnesota?

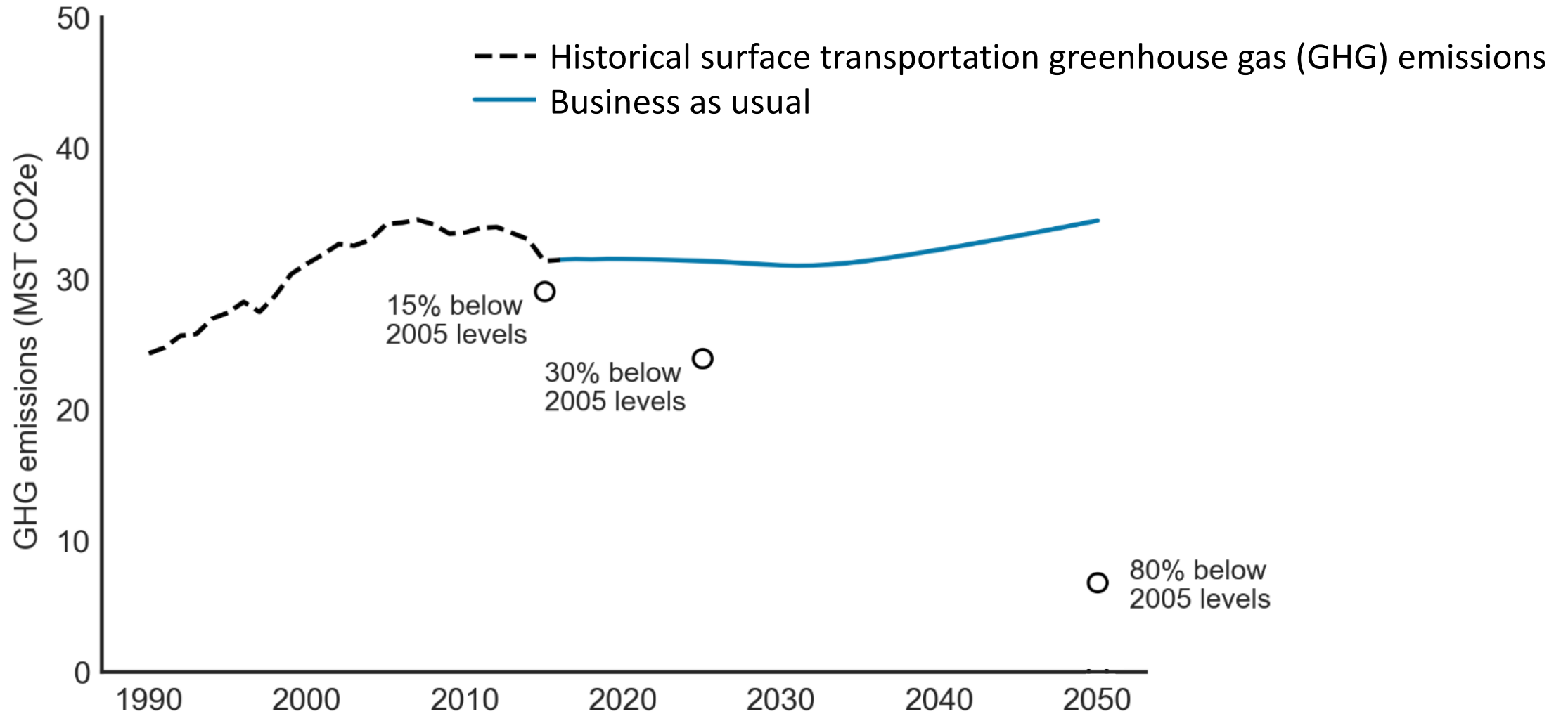
Two standards for passenger vehicles:

- Low-Emission Vehicle (LEV) standard
- Zero-Emission Vehicle (ZEV) standard

**To address two major challenges: climate change and air pollution.**



# Challenge #1: Climate change



# Challenge #2: Air pollution from vehicles affects human health

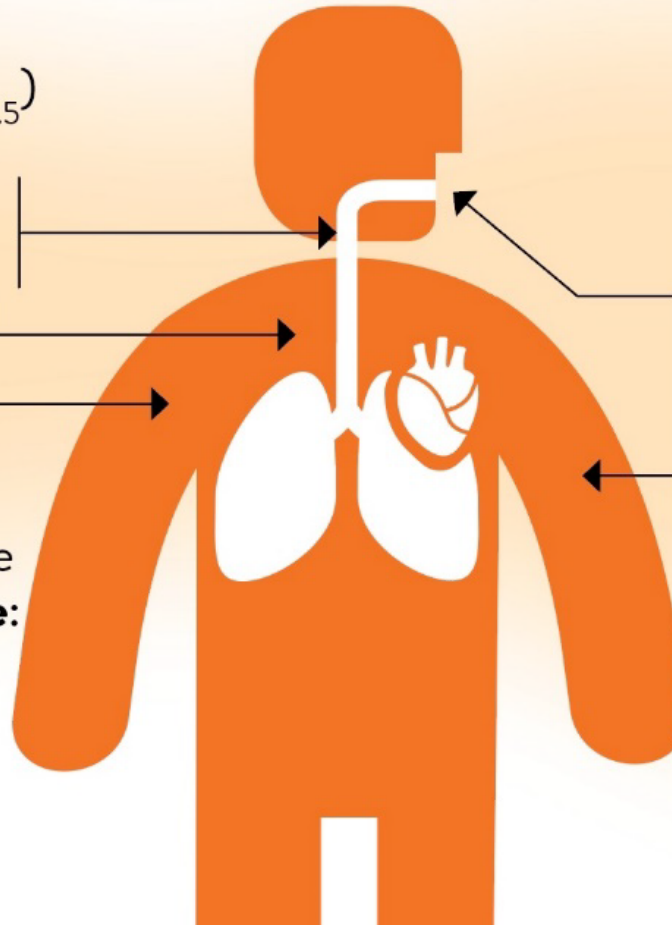
Fine particles and ground-level ozone (often called smog) are widespread pollutants linked to health effects.

**Fine particles (PM<sub>2.5</sub>)**  
pollution can cause:

- Shortness of breath
- Wheezing, coughing
- Chest pain
- Fatigue

Fine particles can make these conditions **worse**:

- Cardiovascular and heart disease
- Asthma and COPD



**Ground-level ozone**  
pollution can cause:

- Difficulty breathing deeply
- Shortness of breath
- Sore throat
- Wheezing, coughing
- Fatigue

Ozone can make these conditions **worse**:

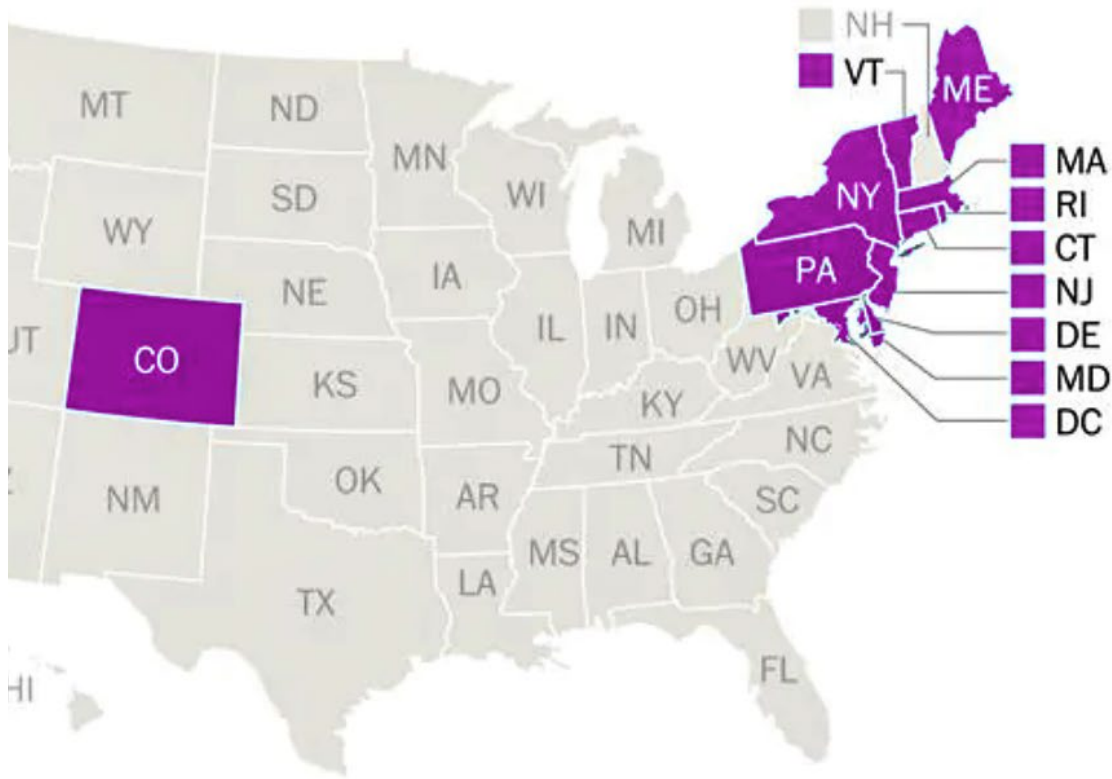
- Asthma and COPD
- Emphysema

# Why these standards?

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standards

● Follows federal standards



# Low-Emission Vehicle (LEV) standard

The LEV standard is a tailpipe emissions standard for auto manufacturers.

- Applies to GHGs and other harmful air pollutants.
- Tailored to the size of the vehicle.
- Does not apply to heavy-duty trucks or off-road equipment.
- Does not put requirements on individuals
- Does not require emissions testing

# Why we should adopt the LEV standard now

**Current federal standard is the same as the LEV standard, and we want to ensure Minnesotans continue to have access to the cleanest cars available.**

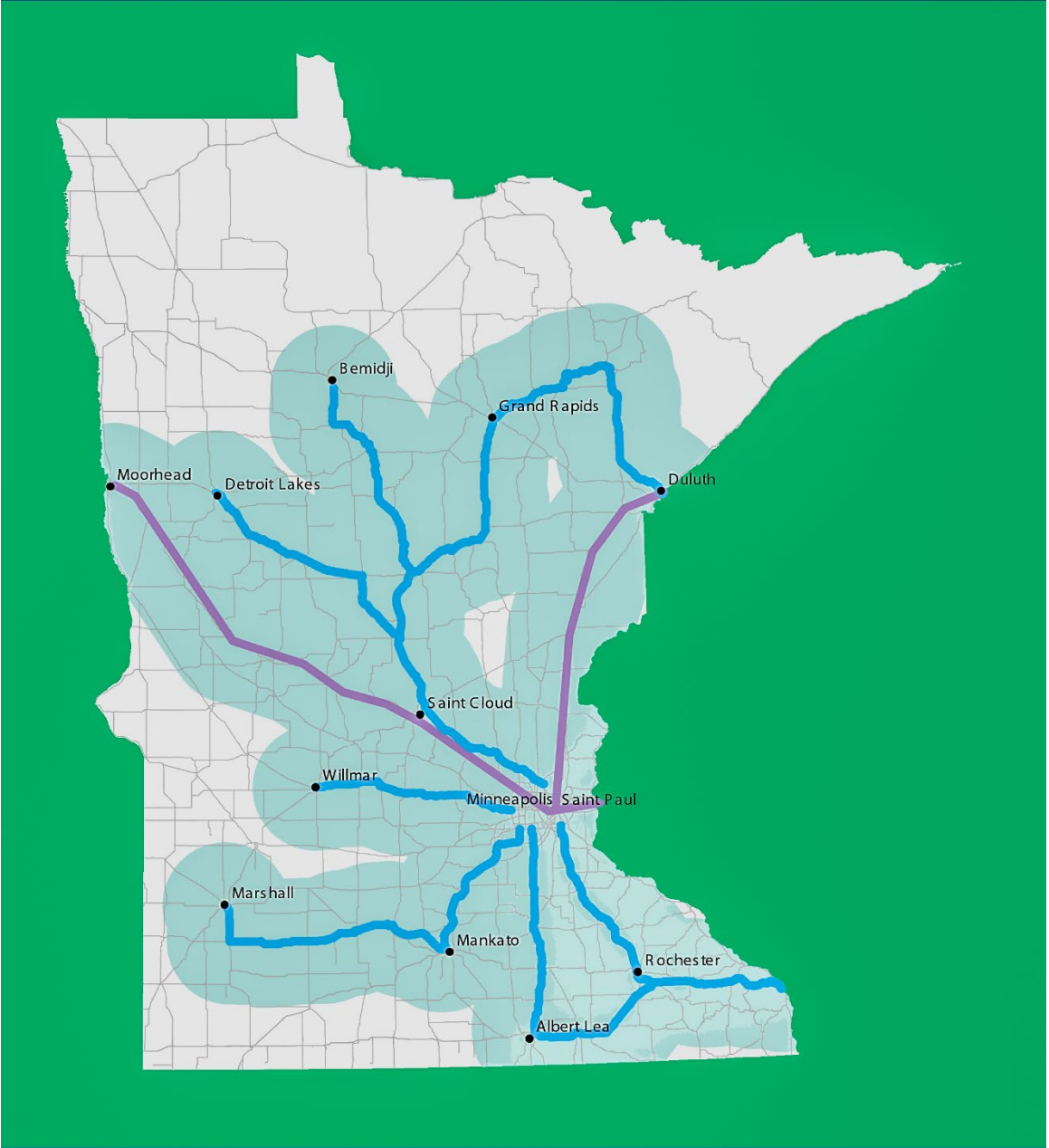


# Zero-Emission Vehicle (ZEV) standard

The ZEV standard requires manufacturers to deliver more vehicles with ultra-low or zero tailpipe emissions for sale in Minnesota.

- More electric vehicle (EV) and plug-in hybrid models available here.
- Does not require anyone to purchase an EV.
- Already adopted by 11 states.

# EV fast-charging infrastructure across Minnesota



# What is “rulemaking”?



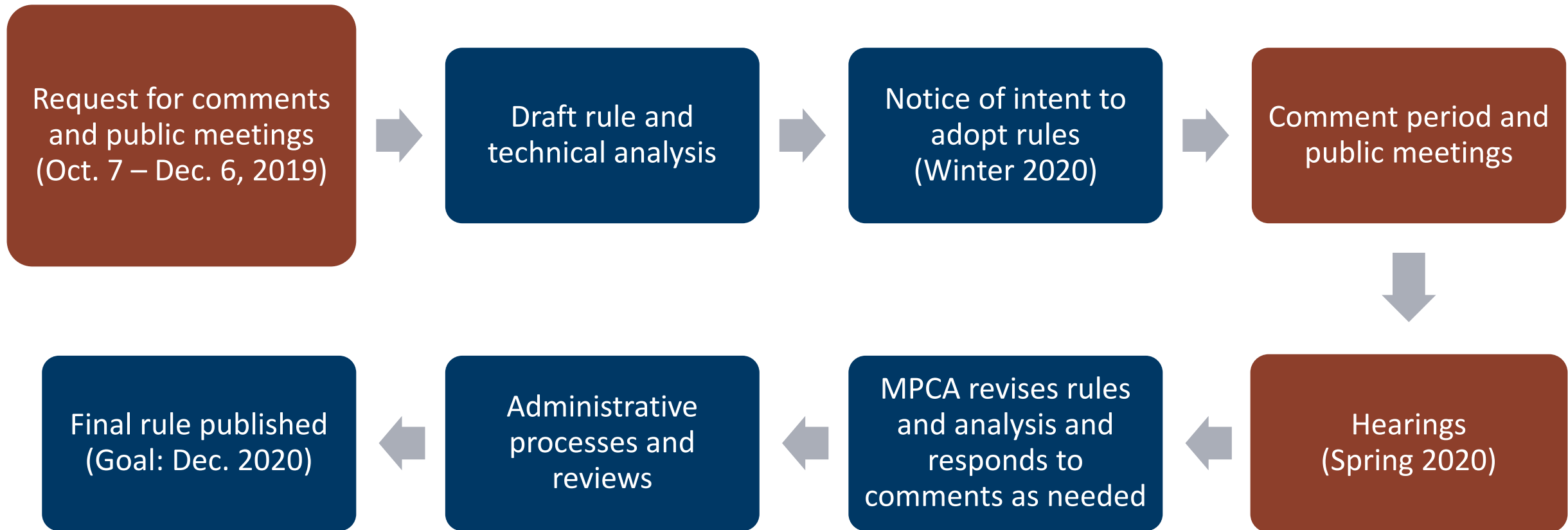
- State agencies can adopt regulations specific to their programs.
- Process involves:
  - Analysis of need and reasonableness
  - Opportunities for public input
- Administrative Law Judge must approve the rule before the agency can adopt it.

# When would the standards start?

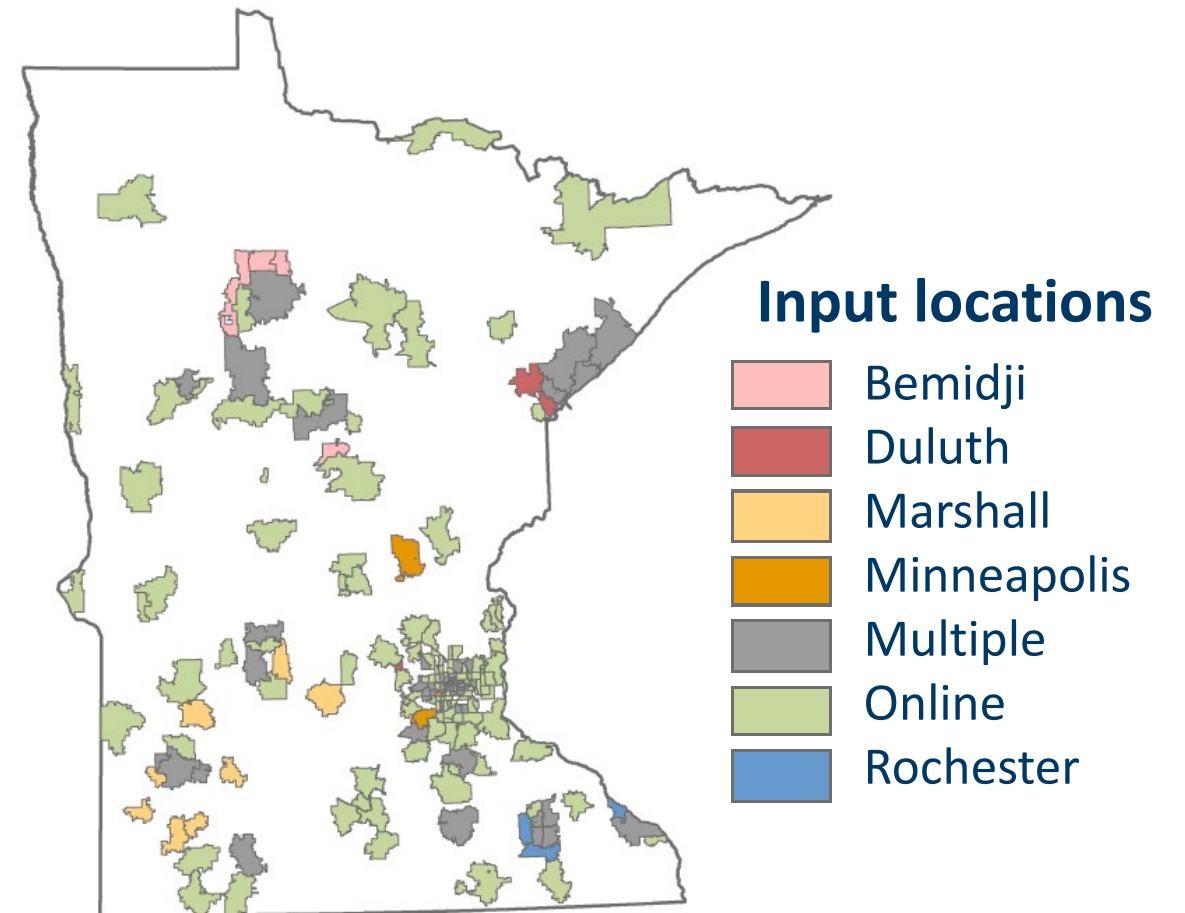
Clean Air Act requires two model years between adoption and implementation.



# Timeline and opportunities for input



# Minnesotans calling for action



10 public meetings and online survey

1,500 comments and meeting attendees

# Clean Cars Minnesota is part of the solution

We need action across many areas and by many groups.



# Benefits for Minnesotans



1. Minnesotans will continue to have access to cleaner cars, trucks, and SUVs in the future.
2. More choices for consumers.
3. Reduce air pollution.
4. Important step towards achieving our GHG reduction goals

Submit comments online

<https://www.pca.state.mn.us/cleancarsrule>

Google: Clean cars rulemaking

# Thank you

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