

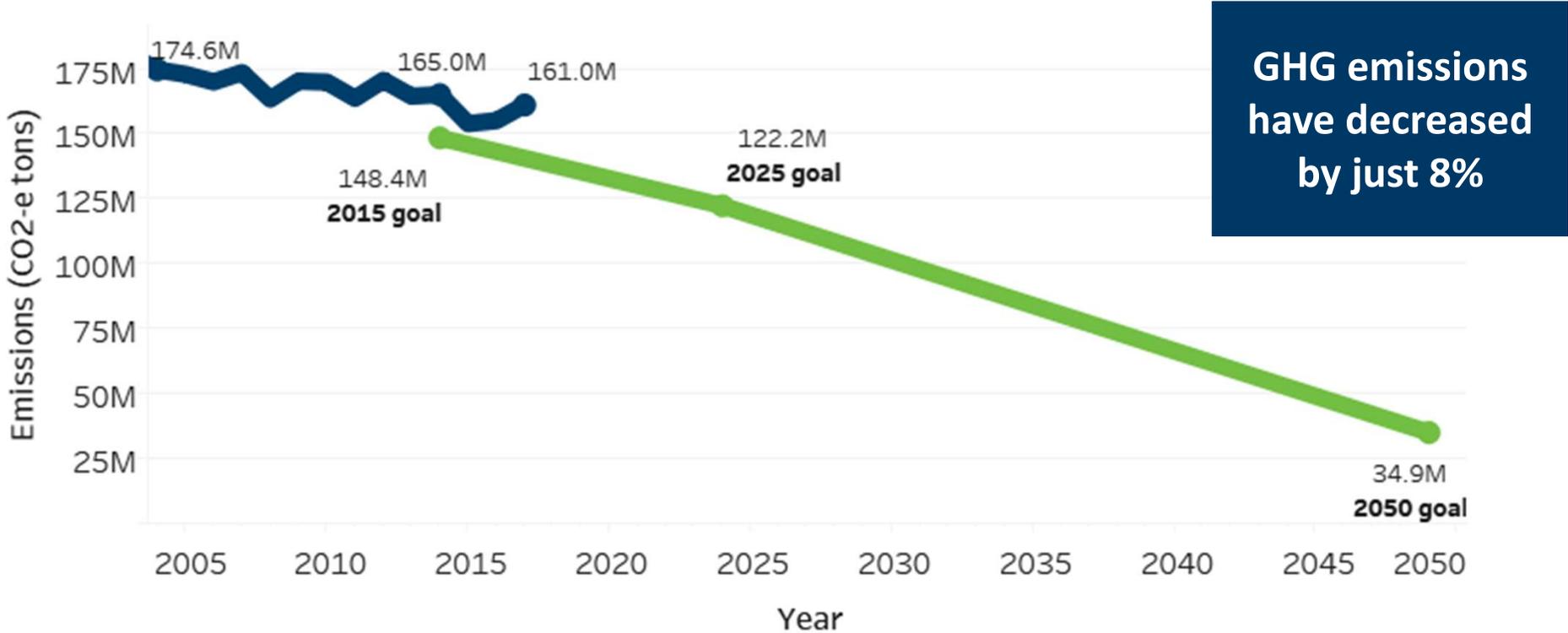


Greenhouse gas emissions in Minnesota

Frank Kohlasch | Climate Director

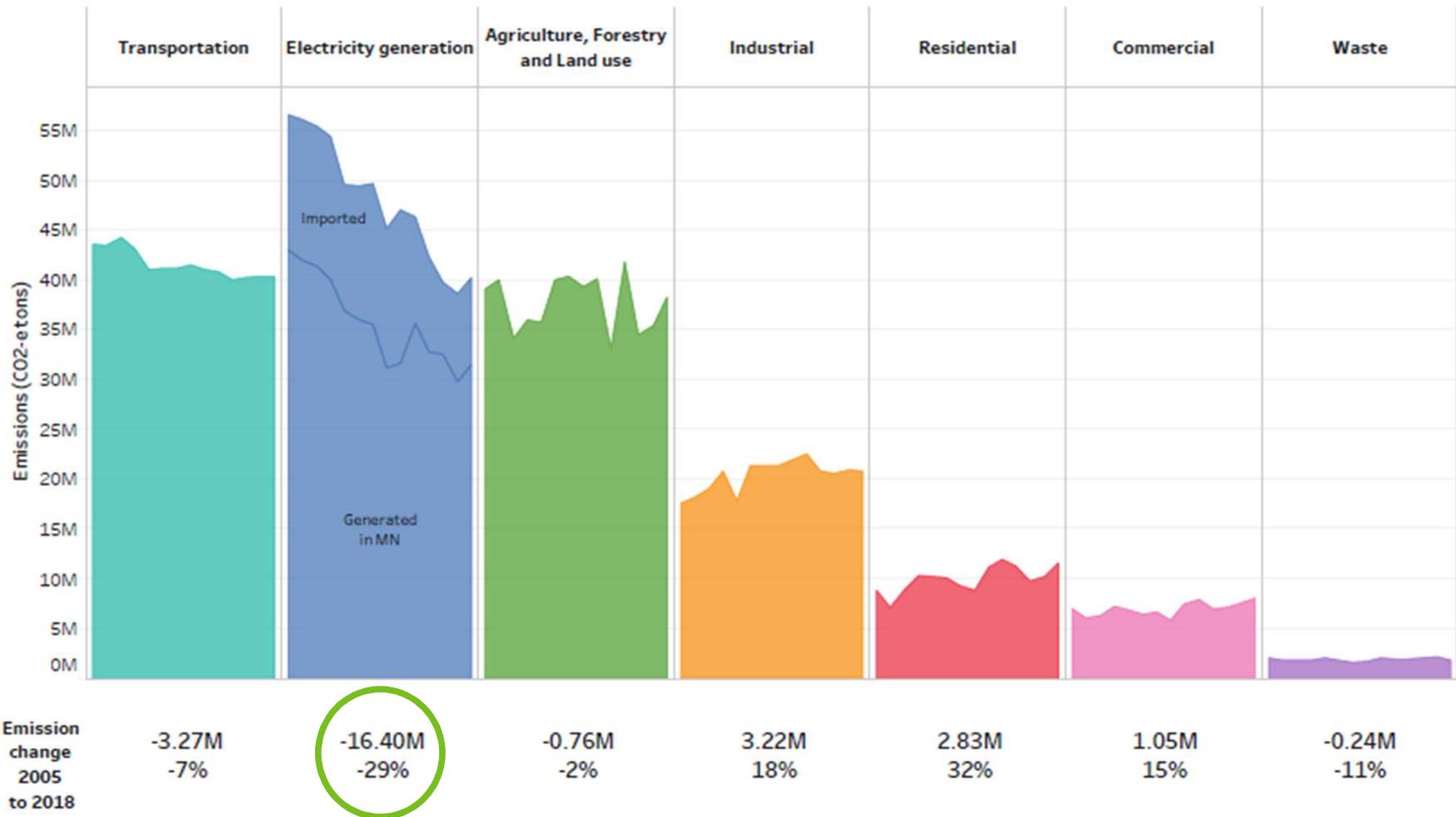
January 2021

Minnesota is not on track to meet its goals



Minnesota's actual GHG emissions, compared to the Next Generation Energy Act goals

Greenhouse gas emissions by sector



Transportation

- Largest source of emissions
- Most in need of swift action
- Light-and medium-duty vehicles make up **more than half** of all transportation emissions





Transportation



↓ 7% GHG emissions, 2005–2018

Action needed:

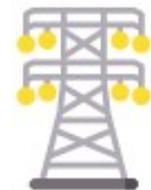
- Implement clean car standards
- Invest in cleaner fuels
- Expand Minnesota's EV charging network

Electricity generation

- Close second to transportation sector
- Positive progress so far has been concentrated here
- Only sector that is on track to meet NGEA goals



Electricity generation



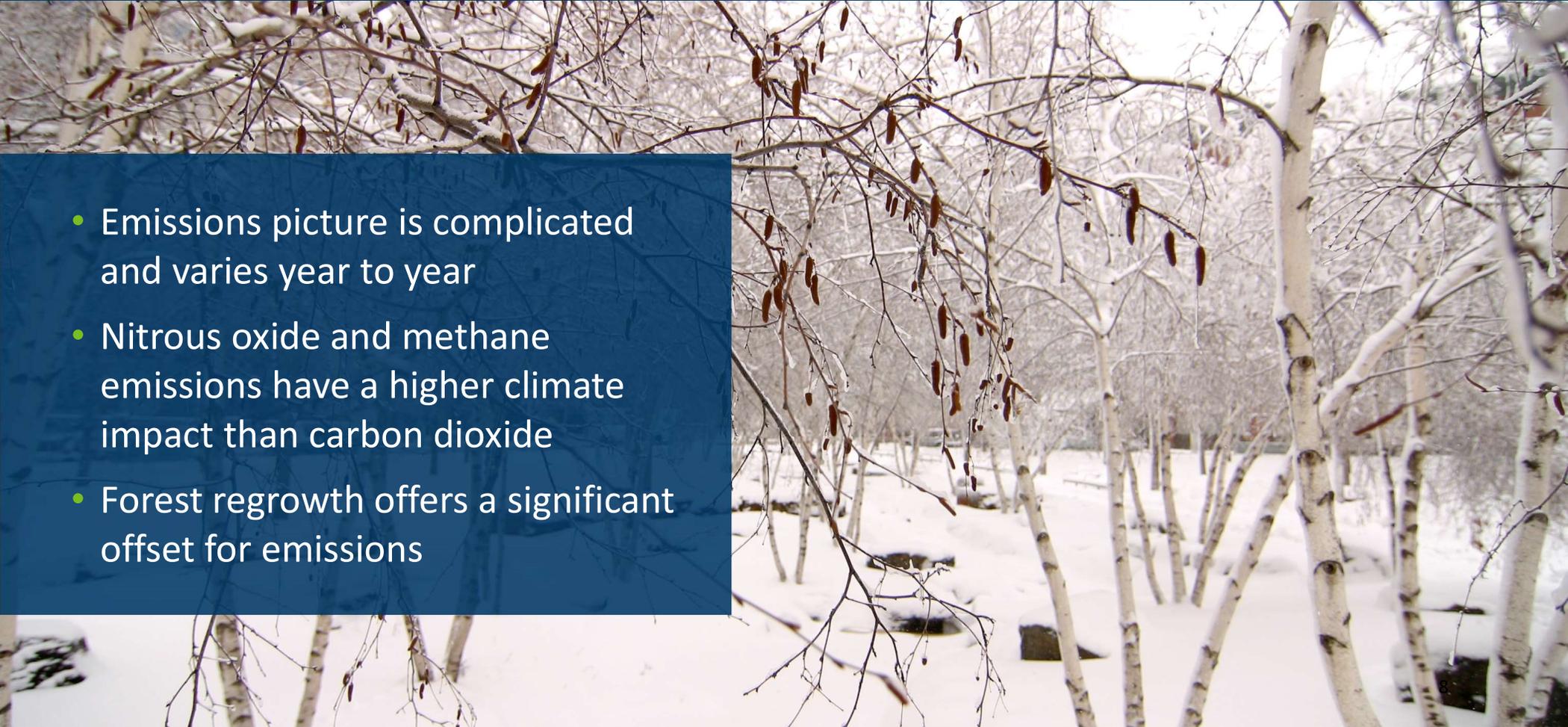
↓ 29% GHG emissions, 2005–2018

Action needed:

- Adopt 100% Clean Energy by 2040 standard
- Adopt Clean Energy First policy
- Adopt Energy Optimization policy

Agriculture, forestry, land use

- Emissions picture is complicated and varies year to year
- Nitrous oxide and methane emissions have a higher climate impact than carbon dioxide
- Forest regrowth offers a significant offset for emissions



Agriculture, forestry, land use



↓ 2% GHG emissions, 2005–2018

Action needed:

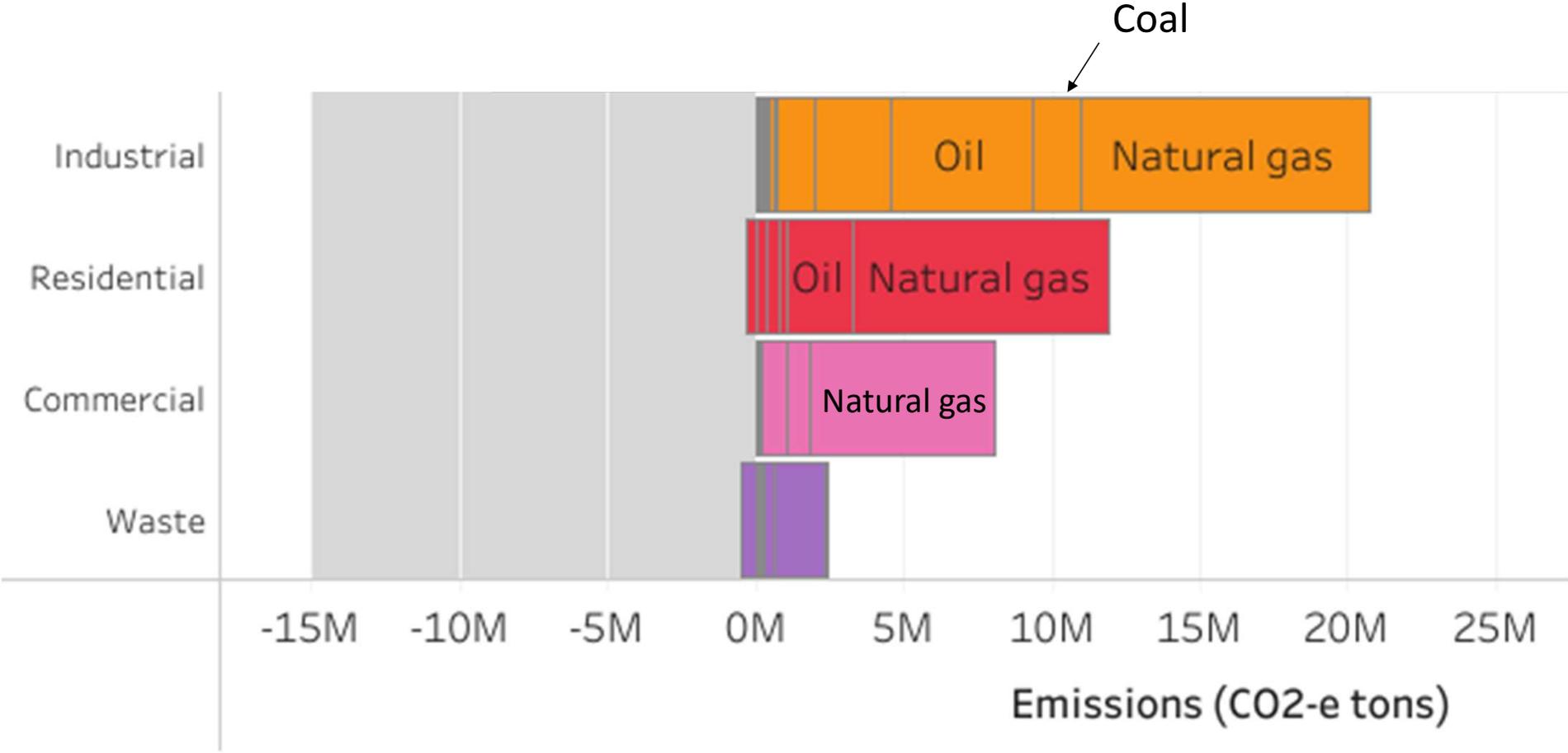
- Help farmers implement climate-smart practices
- Accelerate cover crop usage
- Protect Minnesota landscapes after major precipitation events
- Increase tree cover

Buildings

- Fossil fuels used for heating buildings, industrial processes, and manufacturing
- Industrial processes can also emit GHGs directly
- Does not include emissions from electricity use in buildings



Other emissions





Industrial, residential, and commercial

↑ 21% GHG emissions, 2005 - 2018

Action needed:

- Adopt carbon reduction goals for existing buildings
- Develop more energy-efficient commercial and large multifamily buildings

One Minnesota Climate Vision

**Climate change is an existential threat that impacts all
Minnesotans.**

Establish and accelerate policies that put Minnesota on track to meet or exceed our greenhouse gas goals and achieve greater resiliency in the face of climate change.

Our path forward

- Accelerate the pace of progress, especially in transportation and our agricultural and forested lands
- Help Minnesota communities adapt and prepare



Our path forward

- Expand our engagement with Minnesotans to identify ways to reduce our emission and address the existential crisis presented by climate change
- Leverage the work of multiple efforts to reduce emissions and build resiliency
 - Climate Change Subcabinet
 - Governor's Advisory Council on Climate Change
 - Governor's Council on Biofuels recommendations
 - Sustainable Transportation Advisory Council recommendations
 - Minnesota Climate Adaptation Partnership

What questions do you have?

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