

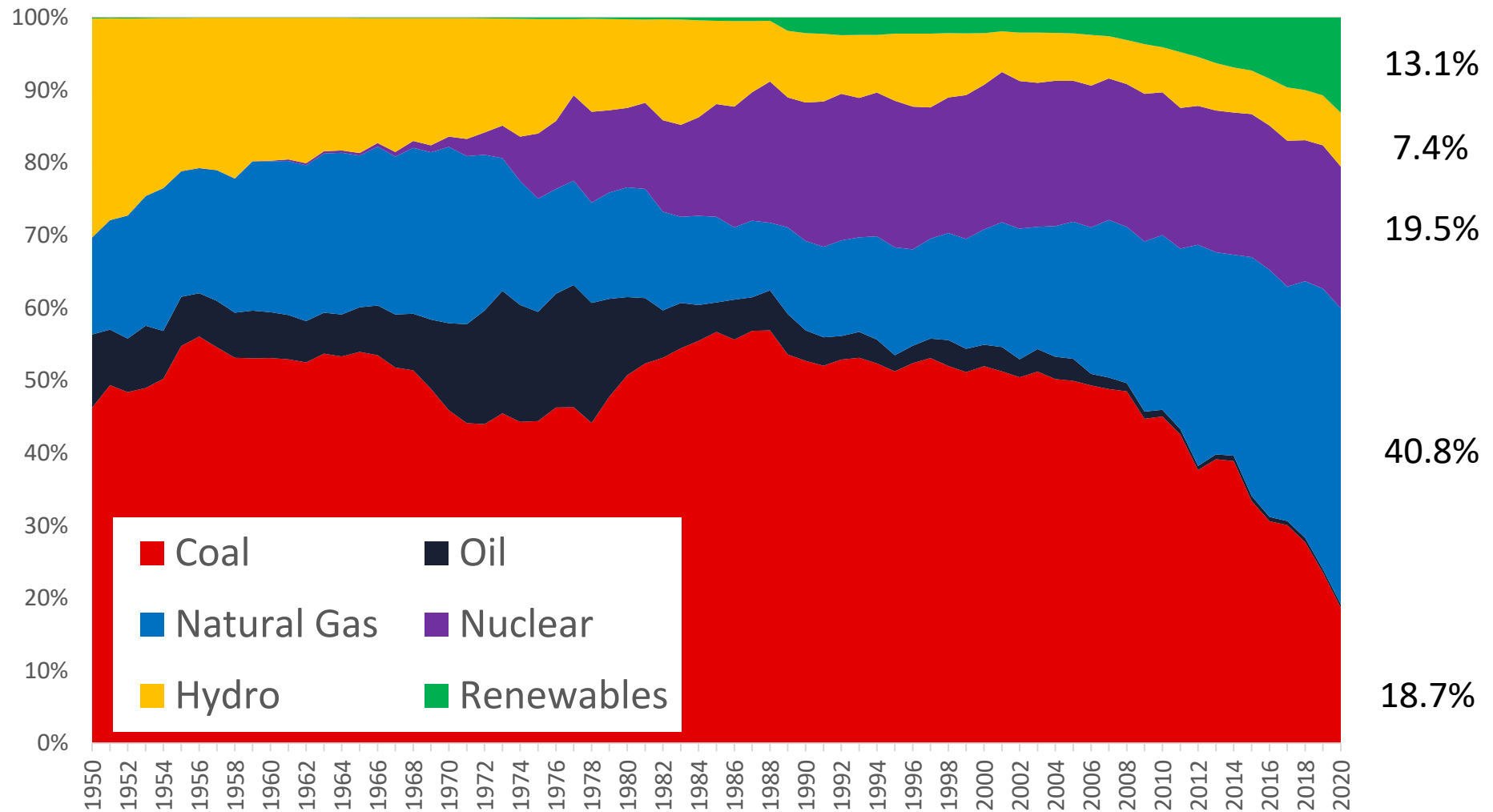
The background of the slide is a photograph of the Colorado State Capitol building in Denver. The building is a large, light-colored stone structure with a prominent central dome covered in gold leaf. The dome is topped with a statue. The building has many windows and classical architectural details. In front of the building, there are some trees and a statue on a pedestal. The sky is blue with some white clouds. The text is overlaid on the center of the image.

# COLORADO NATURAL GAS LEGISLATION: TRENDS AND OPTIONS FOR THE FUTURE

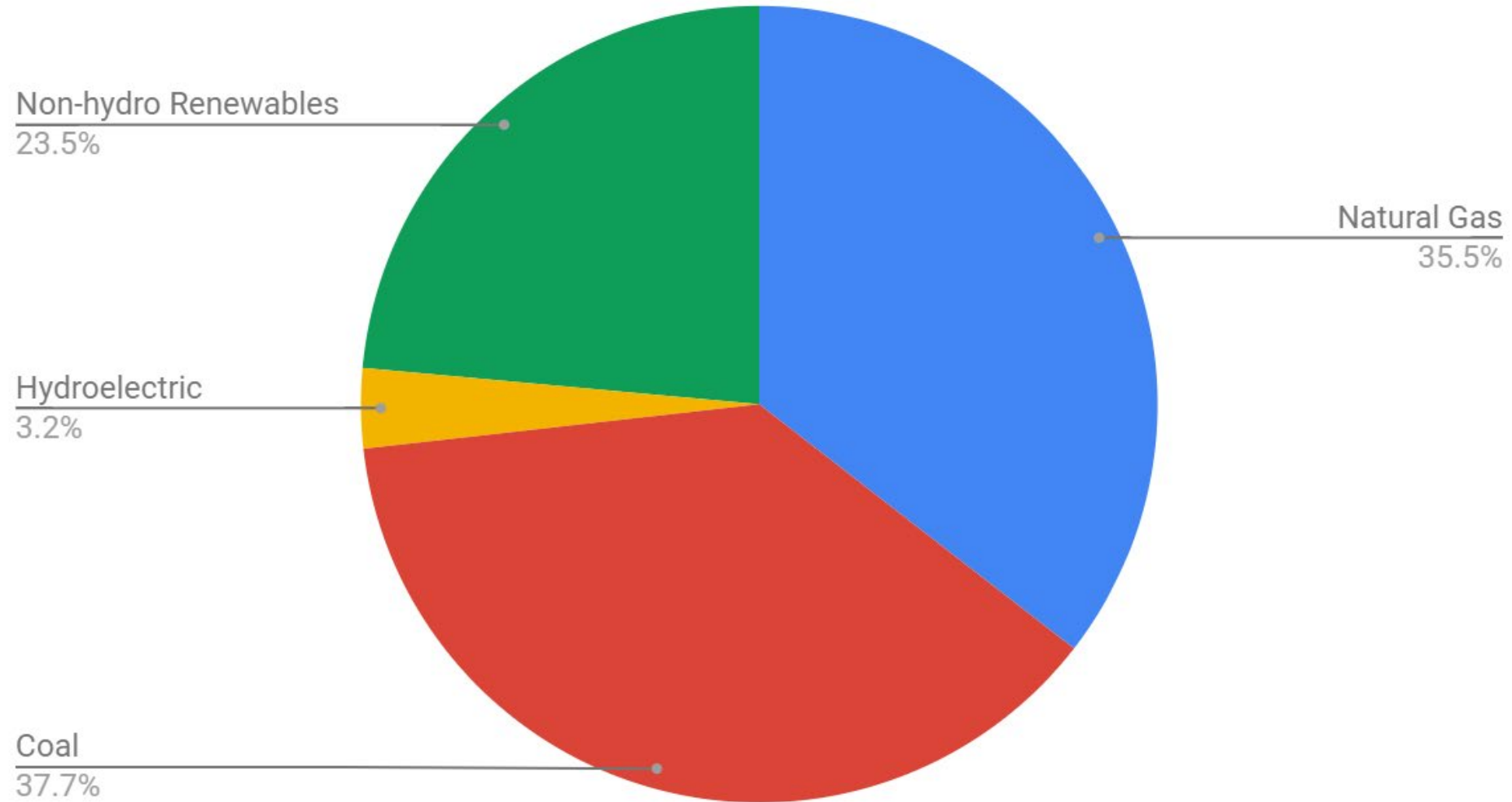
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SENATOR CHRIS HANSEN (D-DENVER; CO SENATE DISTRICT 31)

# U.S. NET GENERATION BY MARKET SHARE (1950-2020)

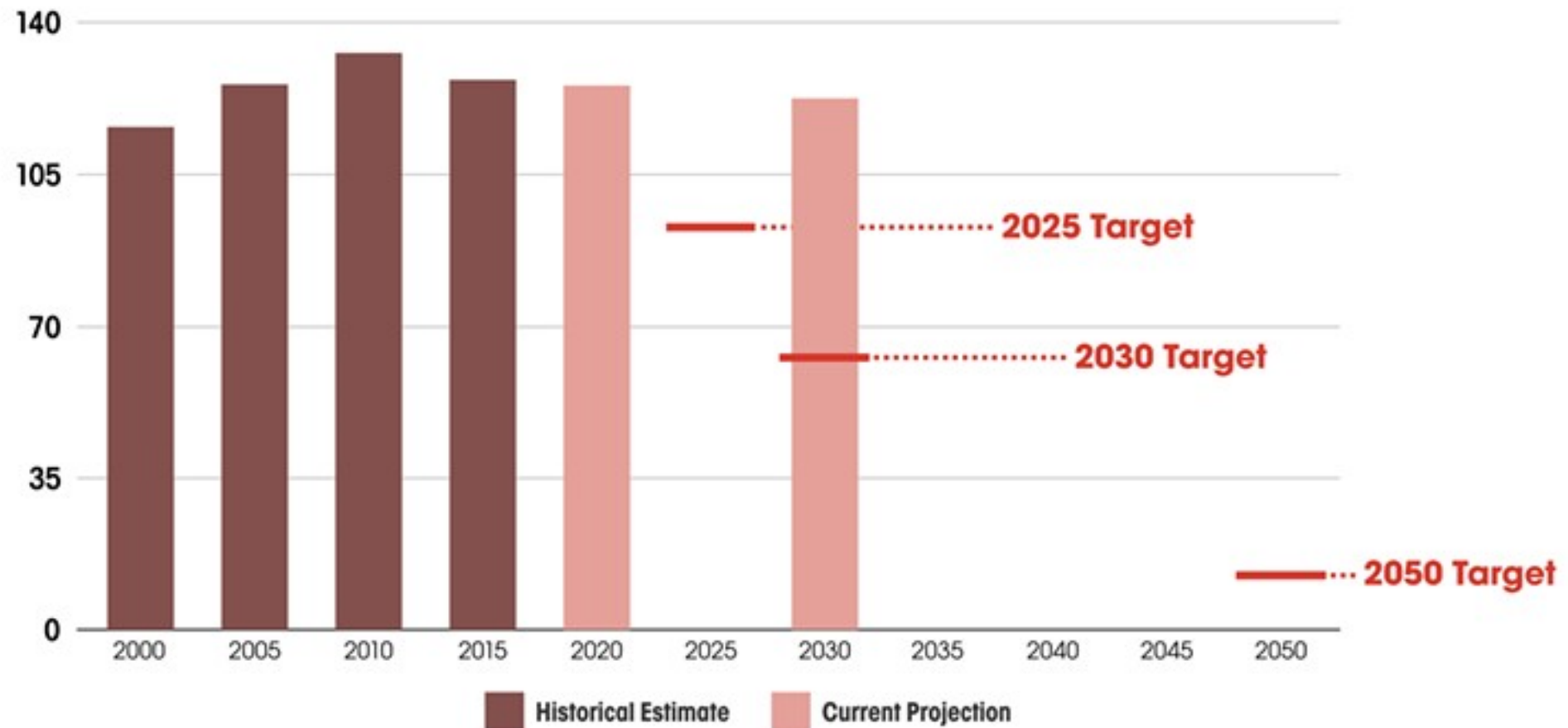


# Colorado Net Electricity Generation by Source (Feb 2020)

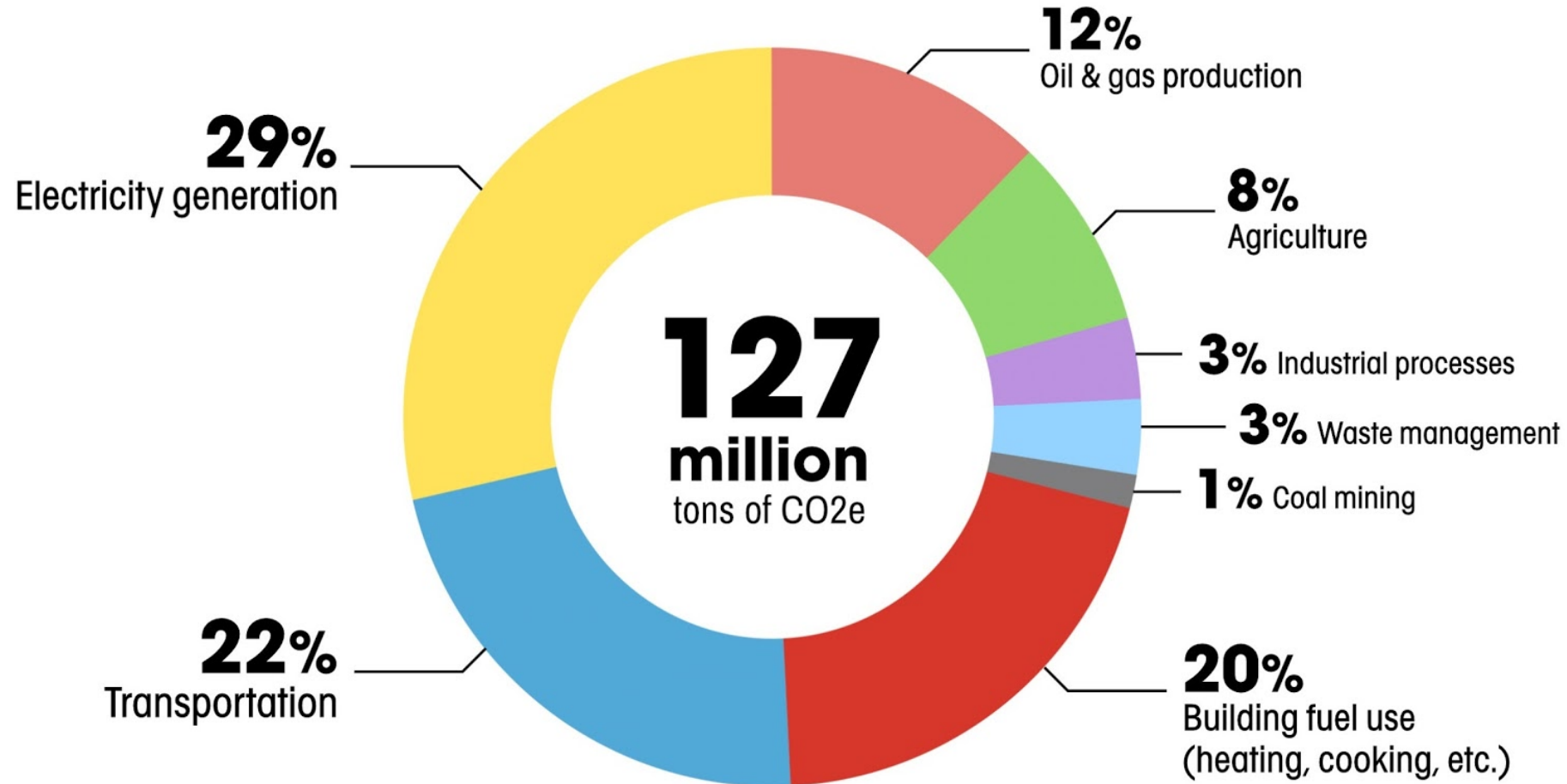


# Colorado's Greenhouse Gas Emissions vs. Climate Action Plan Targets

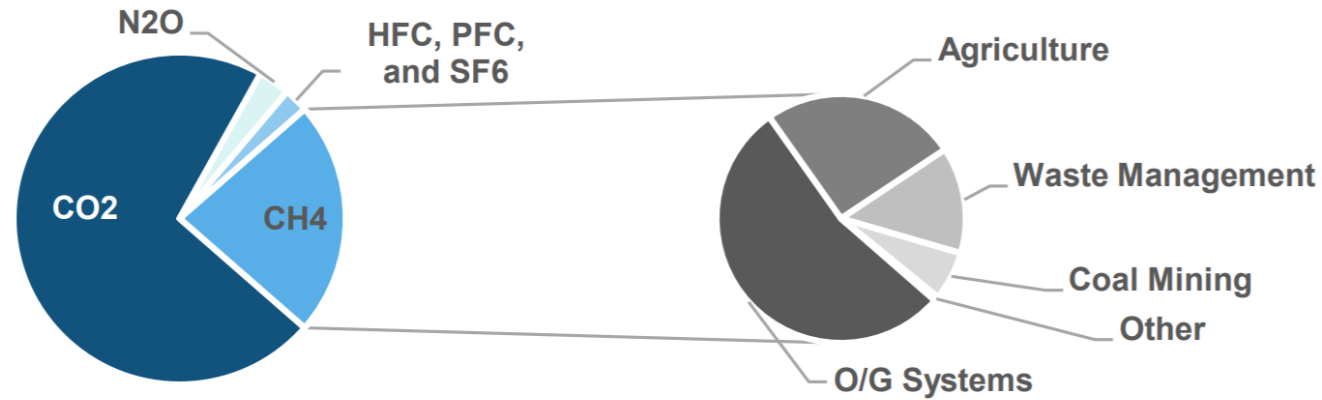
Millions of Metric Tons of CO<sub>2</sub>-Equivalent (MMTCO<sub>2</sub>e)



## Sources of Colorado's Greenhouse Gas Emissions, 2015



# Colorado's 2015 Methane Emissions by Source



Sector	Source	2015 Methane Emissions (MMT CO <sub>2</sub> e)
Agriculture	Enteric Fermentation*	6.19
	Manure Management	1.20
	Agricultural Residue Burning	0.00
Waste Management	Landfills	3.52
	Wastewater Treatment Plants	0.51
Coal Mining	Coal Mining	1.85
Oil and Gas Systems	Oil and Gas Systems	15.62

Source: Colorado Department of Public Health and Environment

\* Enteric fermentation is the microbial fermentation process during digestion in ruminant animals (e.g., cattle) that produces methane as a byproduct. This methane is either exhaled or belched by the animal.



# In 2019, SB19-181 strengthened AQCC's ability to regulate and curb methane emissions

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Requires the AQCC to:

- Review leak detection and repair rules
  - Consider more stringent provisions, including semi-annual leak detection and repair inspections at all well production facilities
- Adopt rules to minimize methane, hydrocarbons, volatile organic compounds, and nitrogen oxides emissions from oil and natural gas

Requires oil and gas companies to:

- Install methane emissions monitors at facilities with large emissions potential, at multi-well facilities, and at facilities in close proximity to occupied dwellings

# SB21-xxx: An opportunity for significant greenhouse gas reductions via GHG performance standard

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This bill establishes a phased in greenhouse gas performance standard for natural gas local distribution companies (LDCs) of:

- at least 5% emissions reduction by January 1, 2025;
- at least 10% emissions reduction by January 1, 2030;
- at least 15% emissions reduction by January 1, 2035 and every year thereafter

Eligible resources to accomplish the performance standard include:

- Renewable Natural Gas
- Emissions offsets that can include coal mine methane, forestry, and agriculture
- Leak detection and repair of the LDC
- MSW methane, wastewater biogas, MSW and tire pyrolysis

The bill also establishes different criteria for large and small investor owned natural gas utilities & provides guidance for municipally owned natural gas utilities



# Potential GHG emissions savings under SB21-xxx

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<b>Portfolio Targets under SB20-150</b>	<b>Quantity of Natural Gas displaced by RNG</b> Million cubic feet	<b>Potential GHG Savings from Displaced Geologic Natural Gas</b> Metric tons of CO2e	<b>Potential GHG Savings from Avoided Methane Emissions</b> Metric tons of CO2e
5%	6,727	0.4 million	up to 3.4 million
10%	13,453	0.7 million	up to 6.8 million
15%	20,180	1.1 million	up to 10.2 million

# Potential Displacement of Natural Gas by RNG for large and small utilities

Natural Gas Utility	Number of Meters	2018 Natural Gas Sales Million cubic feet	Quantity of Natural Gas Displaced by RNG under Large Utility Targets Million cubic feet		
			5%	10%	15%
PSCo (Xcel Enegy)	1,329,848	134,534	6,727	13,453	20,180
Black Hills Colorado Gas	84,586	9,180	459	918	1,377
Black Hills Gas Distribution	99,764	1,732	87	173	260
Colorado Natural Gas	21,831	1,790	90	179	269
Atmos Energy	114,866	4,086	204	409	613

Source: Public Utilities Commission.

Note: Atmos Energy retail sales based on 2020 gas cost recovery filings.

# Contact Information

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