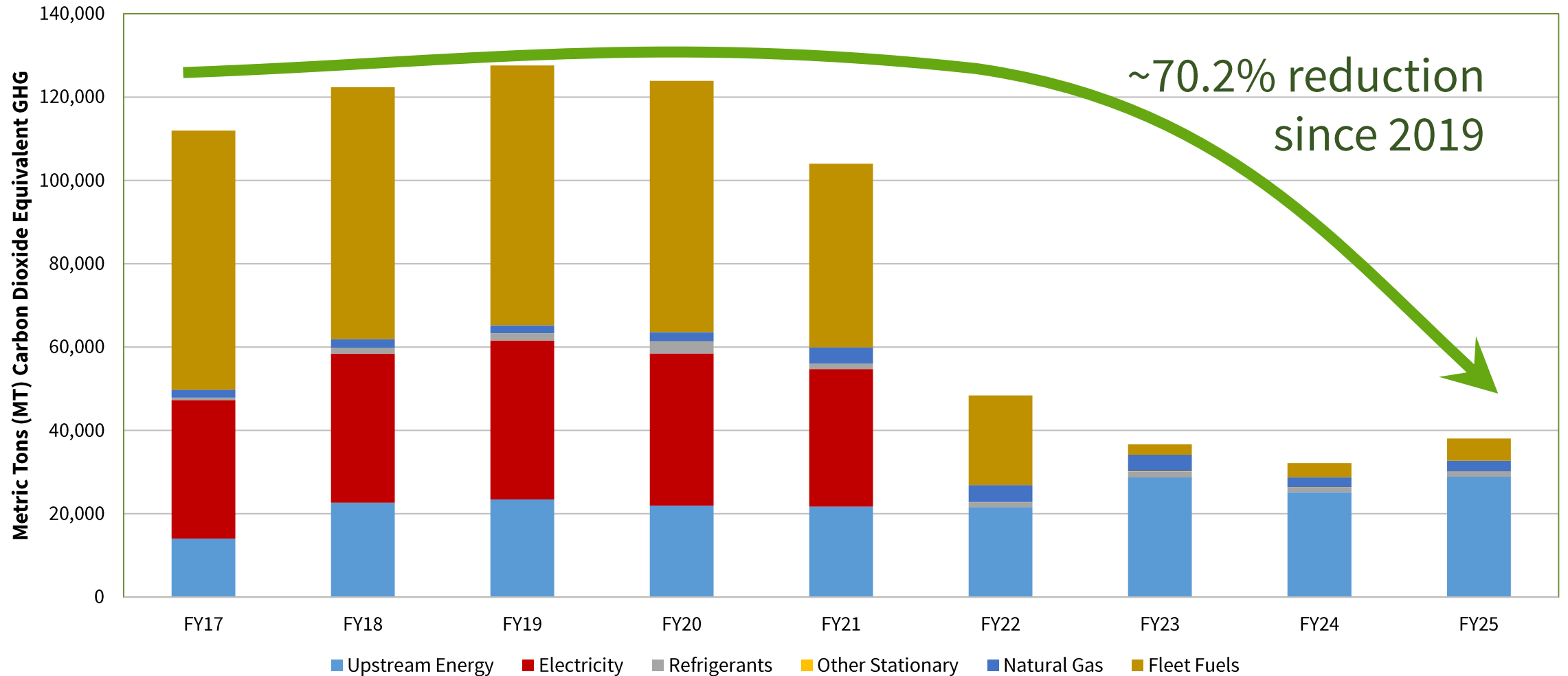


# Hydrogen and 82<sup>nd</sup> Ave Update

April 2026

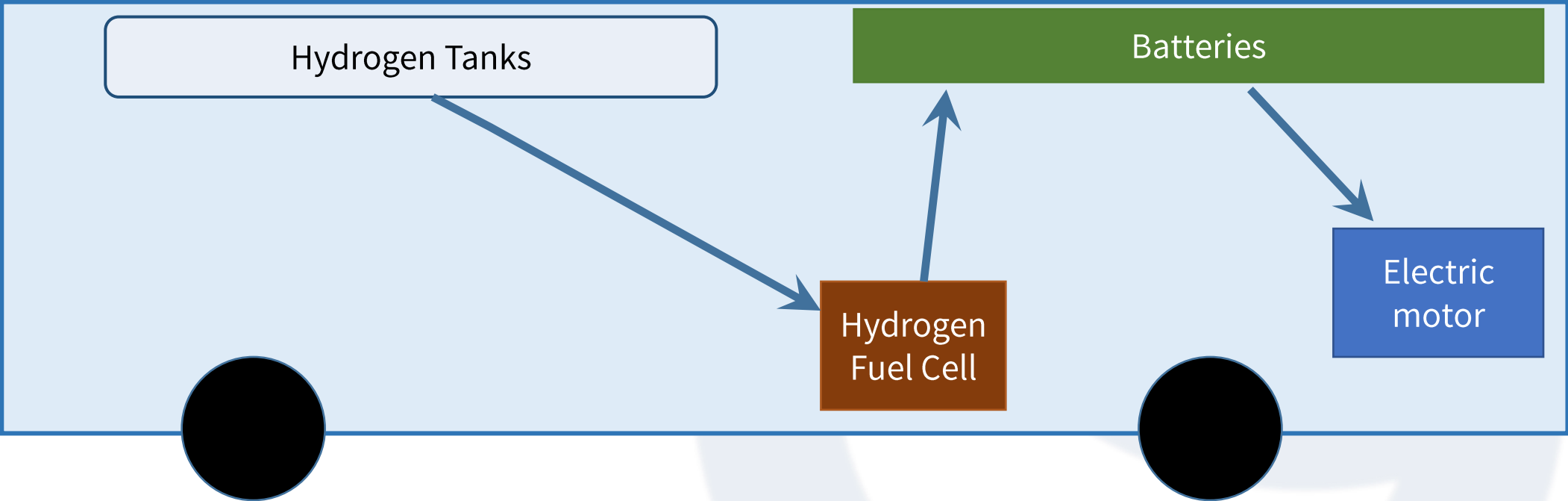
# TriMet Operational Emissions

TriMet Operational Emissions, FY2017 - FY2025  
(Including upstream emissions from fleet fuels and natural gas production)



... and in FY2025, nearly 23 million boardings were on MAX (about 35% of our system total) a fully-electric transit mode

# Hydrogen Fuel Cell Electric Buses are like Battery Electric Buses but with hydrogen to recharge the batteries



# 82<sup>nd</sup> Ave FX Project Summary Funding Sources

- Hydrogen buses and infrastructure funded by grants

Source	Amount
FTA Low-No Emissions Grant	\$23.8M
ODOT Carbon Reduction Program (for 1 FCEB)	\$3M
Other Carbon Reduction Program and HSIP	\$11M
City of Portland	\$16M
RFFA	\$28M
PCEF	\$49.5M
FTA AOPP	\$0.6M
TriMet	\$64.1M
FTA CIG Small Starts	\$150M
<b>Total</b>	<b>\$346M</b>

# Hydrogen Status

At the May 27 meeting,

- The TriMet Board will be presented with resolution for a contract for hydrogen supply for five years (almost 2 years of testing, commissioning, and training while the project is being built followed by about 3 years of regular operation).
- The Board will also be presented with a resolution for a contract for 15 hydrogen fuel cell electric buses.

# Hydrogen Supply: BayoTech/Ivys Partnership

- Can meet awarded Bid Price Form
- Can meet 35 CI score mandate
- Primary source of fuel is InEnTec in Arlington, OR; backup source is K2 Pure Solutions in Pittsburg, CA
- Additional backups identified



## **INENTEC®**

### Waste-to-Gas Project in Arlington, OR

- ❖ 1-1.5 MTPD facility w/TT Filling
- ❖ Ivys Adsorption PSA H2 purification (SAE-Grade)



### Chlor-Alkali Project in Pittsburg, CA

- ❖ 6 MTPD facility w/TT Filling
- ❖ Ivys Adsorption PSA H2 purification (SAE-Grade)

# Basic schedule for hydrogen and buses

- 4/22/2026 – TriMet Board Item approved (Hydrogen infrastructure design)
- 5/27/2026 – TriMet Board Items
  - Hydrogen supply
  - 15 FCEBs
- Q4 CY2027 – Pilot Bus Delivered
- Q3 CY2028 – All 15 FCEBs on site; start extensive safety & testing
- June 2029 – Start of Revenue Service on 82<sup>nd</sup> Ave FX Project