



# All Eyes on 2024: Charting a Path for Clean Energy in the Pivotal Year Ahead

December 13, 2023



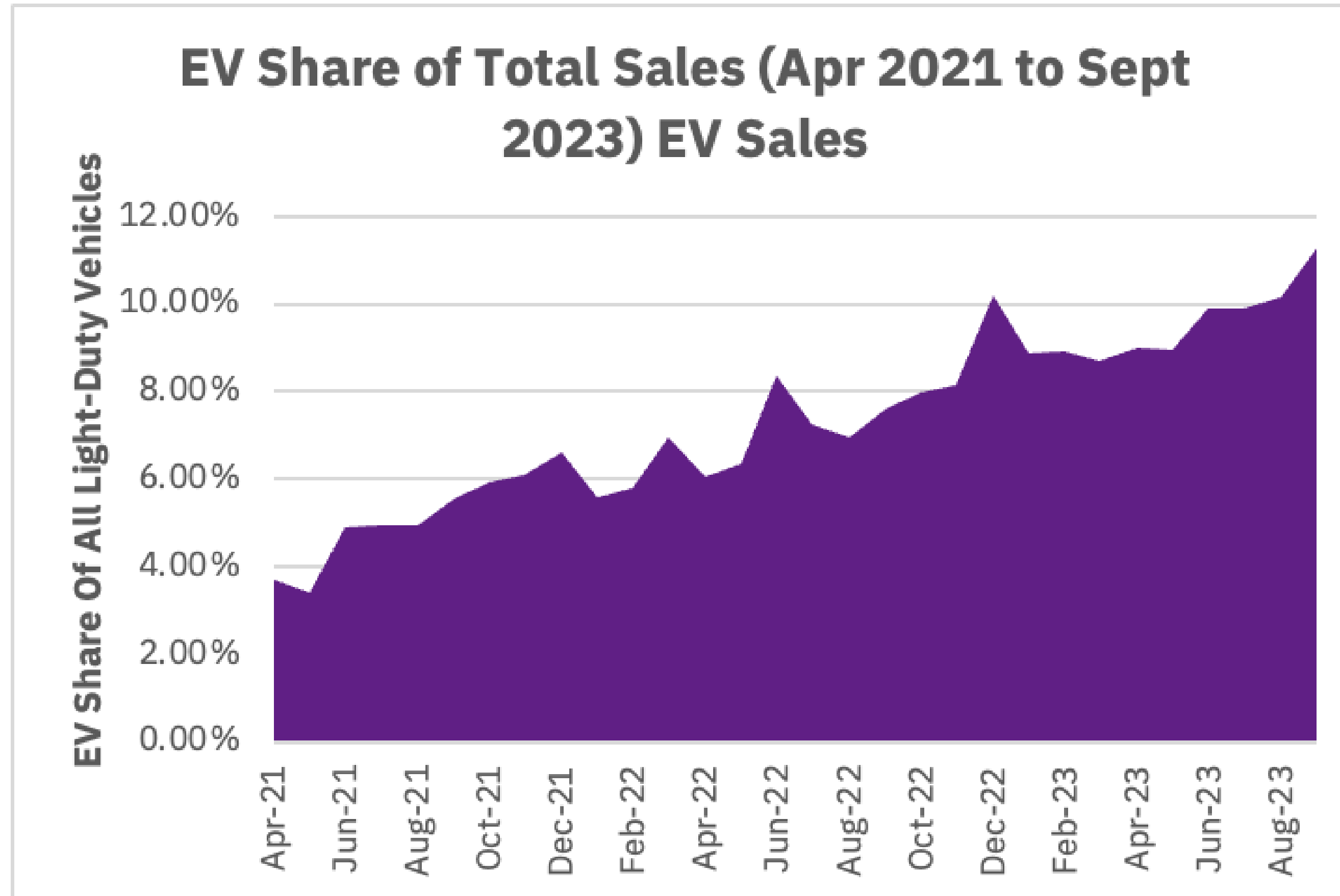
# Transmission Trends & 2024 Opportunities

# Key trends and priorities

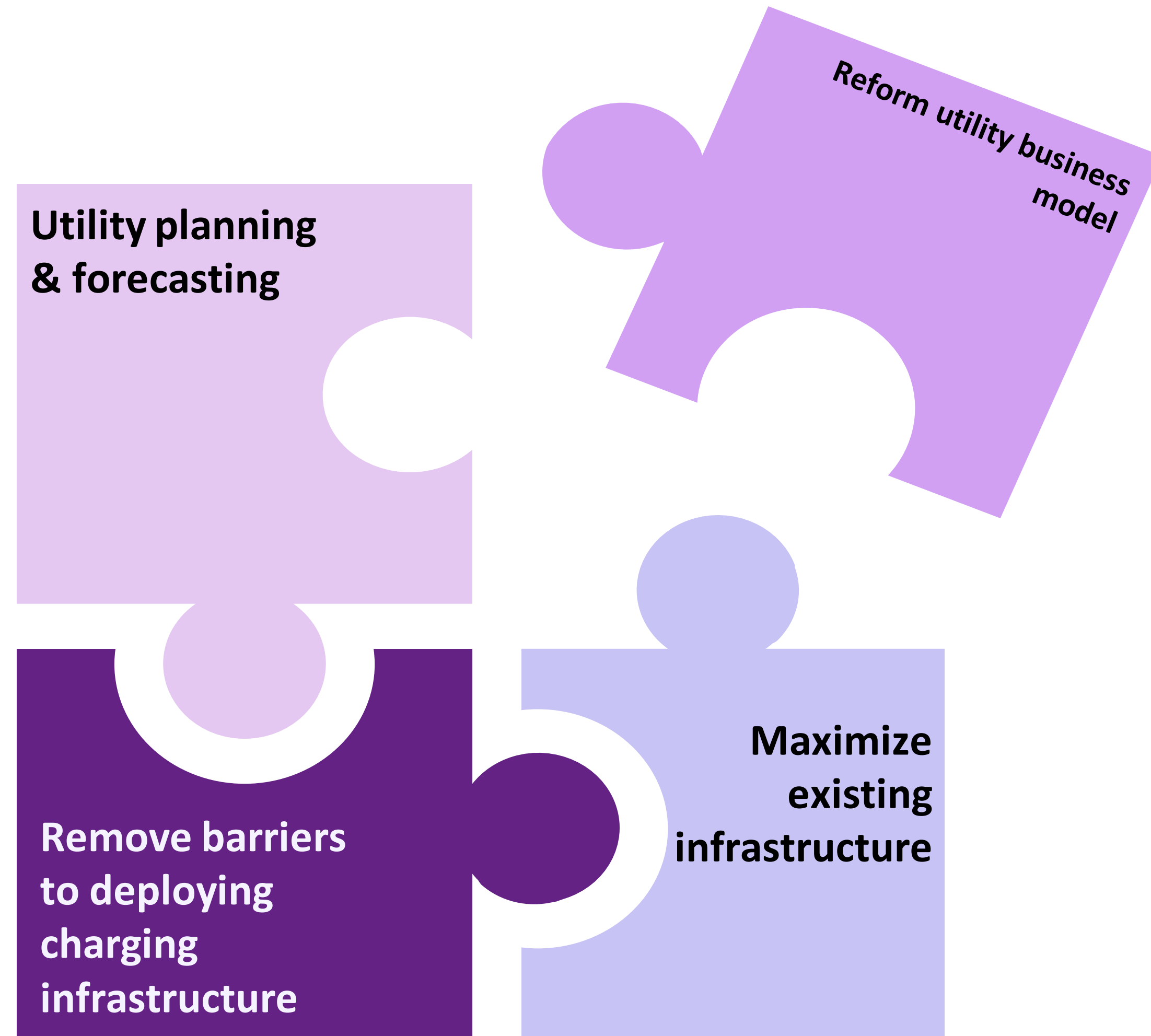
- Grid Enhancing Technologies
- Interregional Transmission Planning
- Transmission Authorities
- Education and Engagement - Transmission Possible

# Electrifying Transportation & Grid Readiness

# EVs are growing about 50% YOY



# Building an EV Ready Grid: 4 Areas of Focus



# Focus Area 1: Utility Planning & Forecasting

- Planning for short- and long-term charging needs
- Interagency coordination and robust stakeholder engagement
- Integrated grid planning

# Focus Area 2: Update Utility Business Model

- Anticipatory capital deployment
- Public-private partnerships
- Utility business model reform



# Focus Area 3: Remove Barriers to Building Charging Quickly

- Updated interconnection/energization timelines and standards
- Streamline permitting and zoning processes
- Incentives and rate structures to grow the EV charging industry

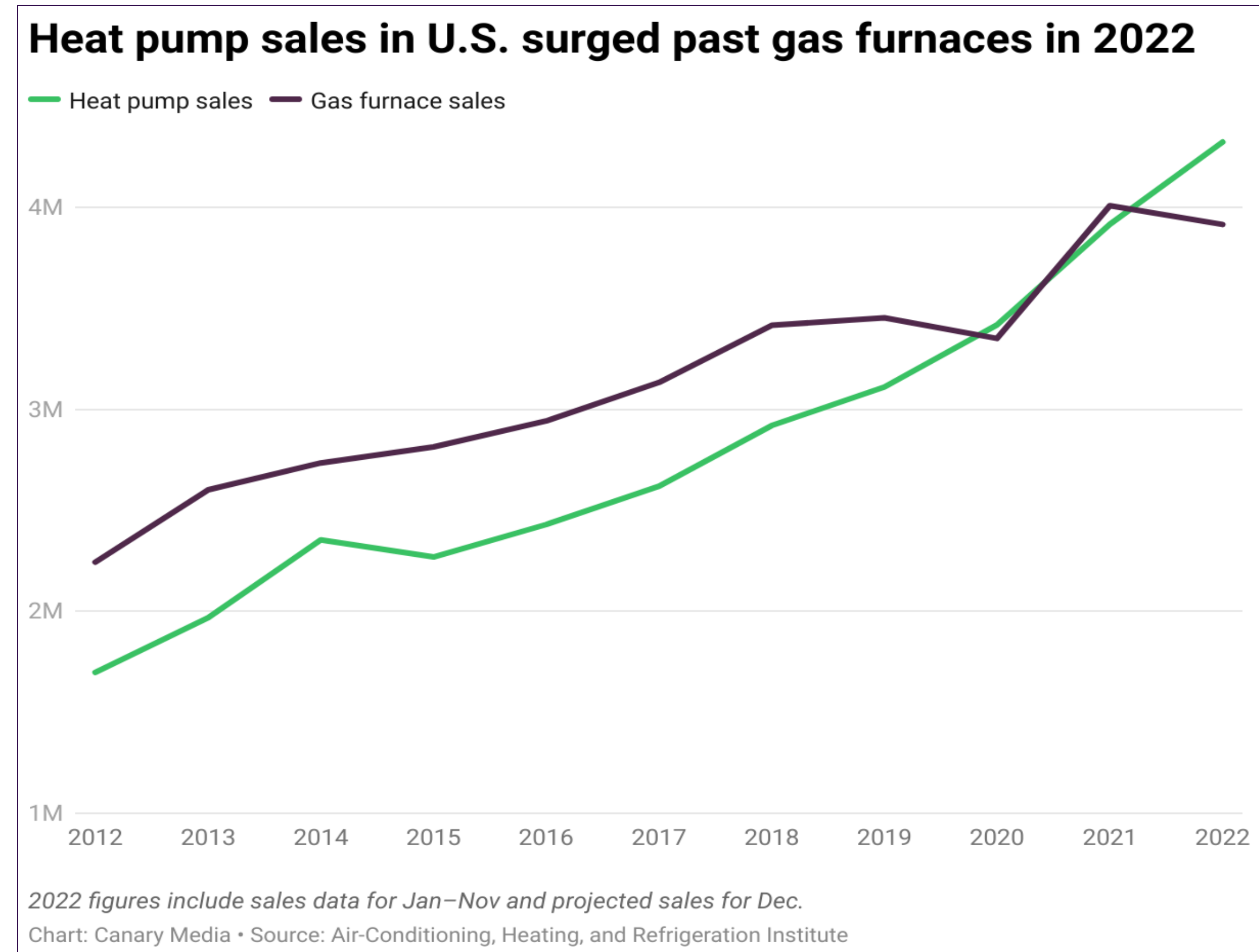
# Focus Area 4: Maximize Existing Infrastructure

- Rate design to realize savings and reduce expensive peaks
- Integrate DERs and load management
- Improve grid transparency
- Compensation structures and standardization for bidirectional charging

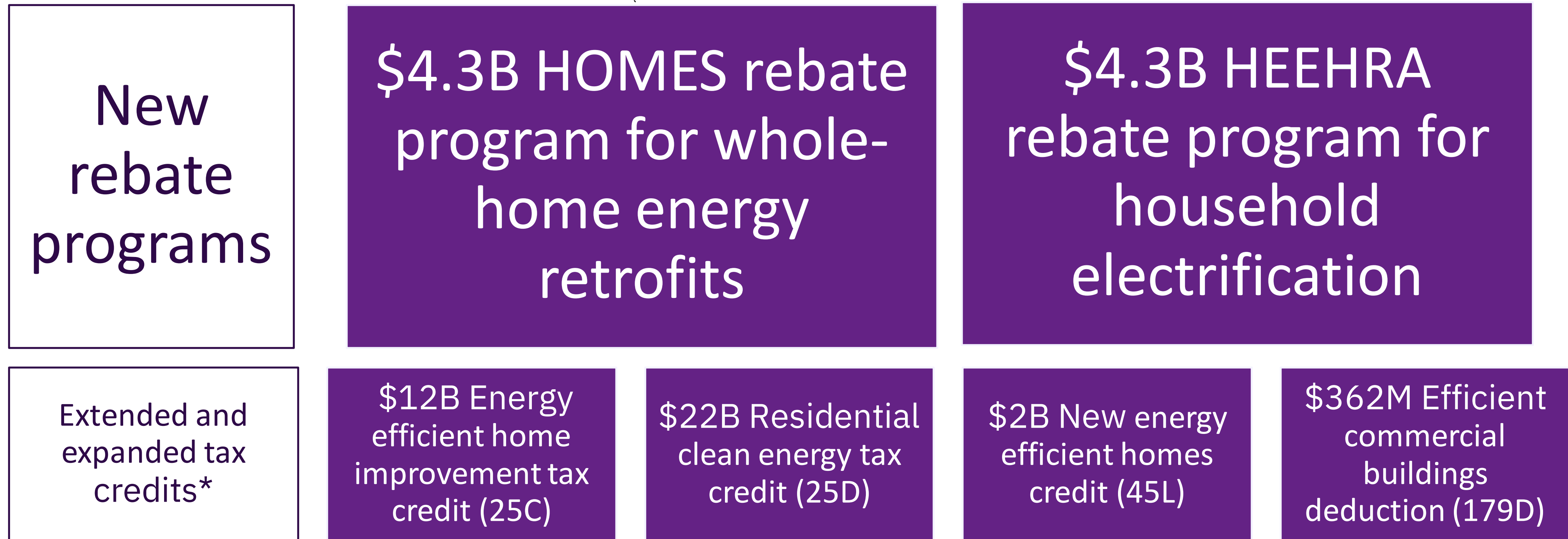
# Building Electrification & Grid Readiness

# Trend 1: Market growth of efficient electric appliances

- The U.S. heat pump market has more than doubled in the last 10 years.

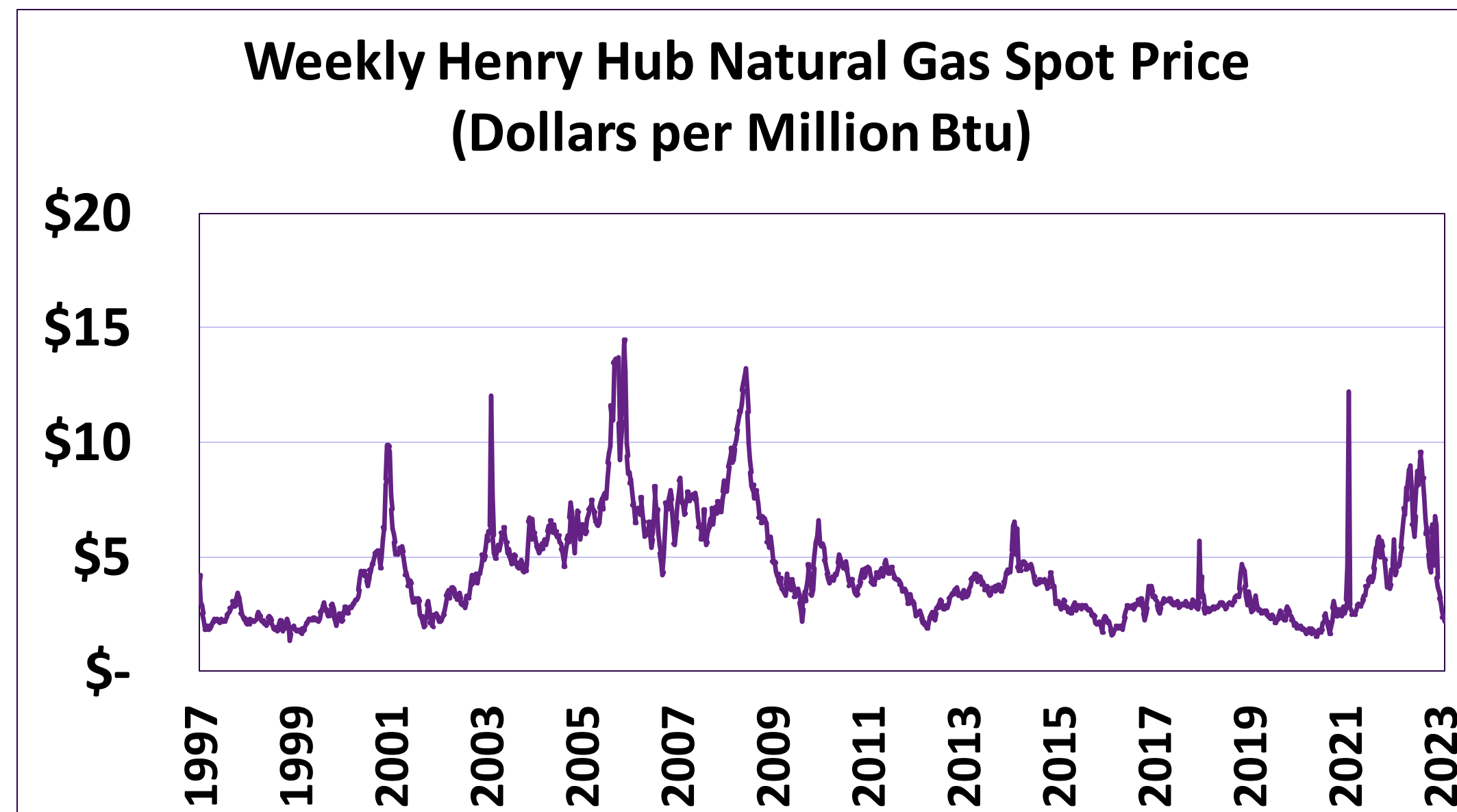


# Trend 2: Inflation Reduction Act



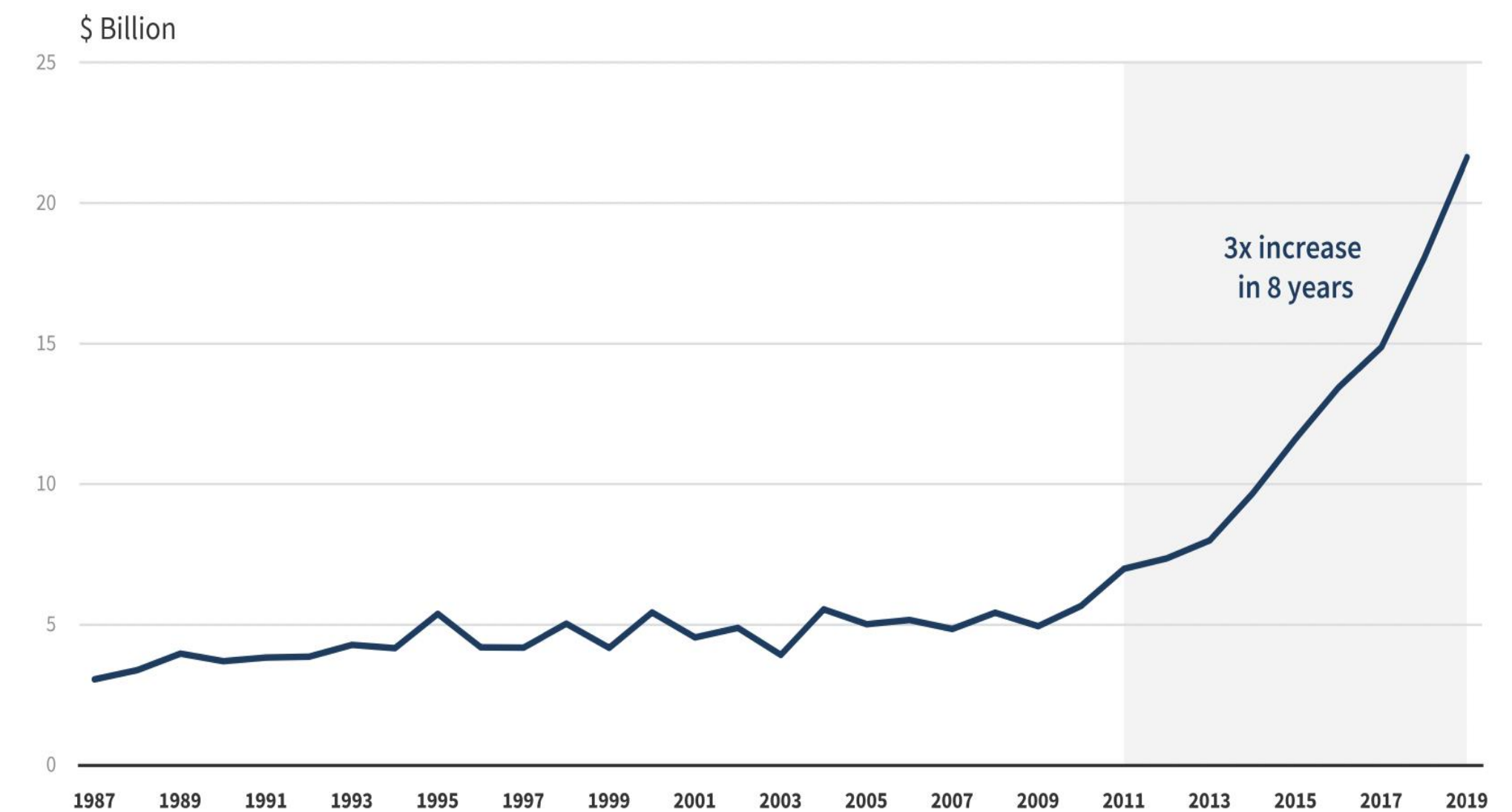
\* Estimated budgetary effects of tax credits from the Congressional Budget Office (CBO), each over 10 years (2022-2031). Available at: [https://www.cbo.gov/system/files/2022-09/PL117-169\\_9-7-22.pdf](https://www.cbo.gov/system/files/2022-09/PL117-169_9-7-22.pdf).

# Trend 3: Rising and volatile gas commodity and infrastructure costs



### Utility spending on the gas distribution system has grown rapidly in recent years

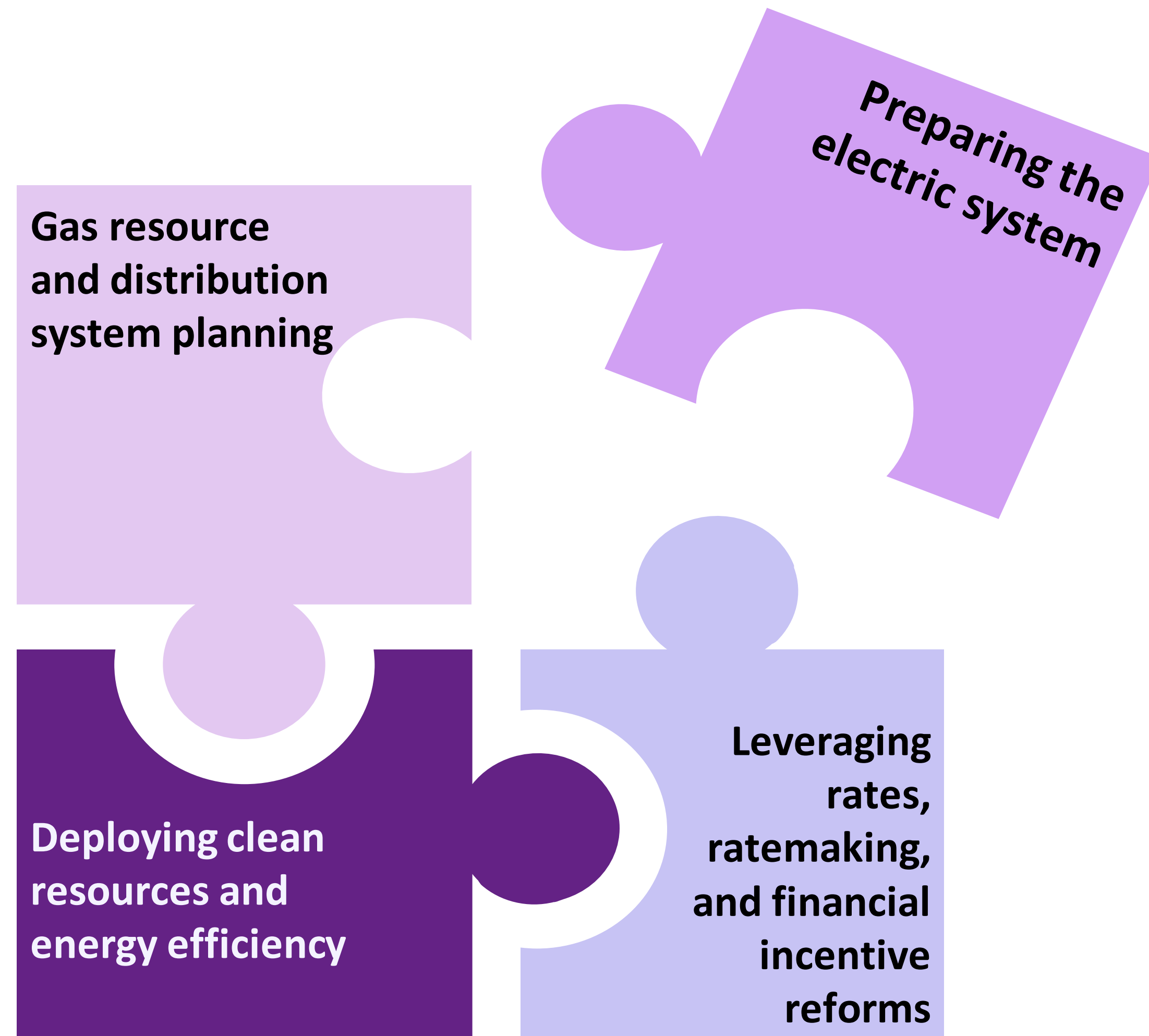
US gas utility distribution system construction expenditures, 1987-2019



Source: American Gas Association, <https://www.aga.org/research/data/construction-expenditures/>

Abigail Lalakea Alter, Sherri Billimoria, and Mike Henchen, *Overextended: It's Time to Rethink Subsidized Gas Line Extensions*, RMI, 2021, <https://rmi.org/insight/its-time-to-rethink-subsidized-gas-line-extensions/>.

# Policy Needs: Managing the transition to a decarbonized built environment



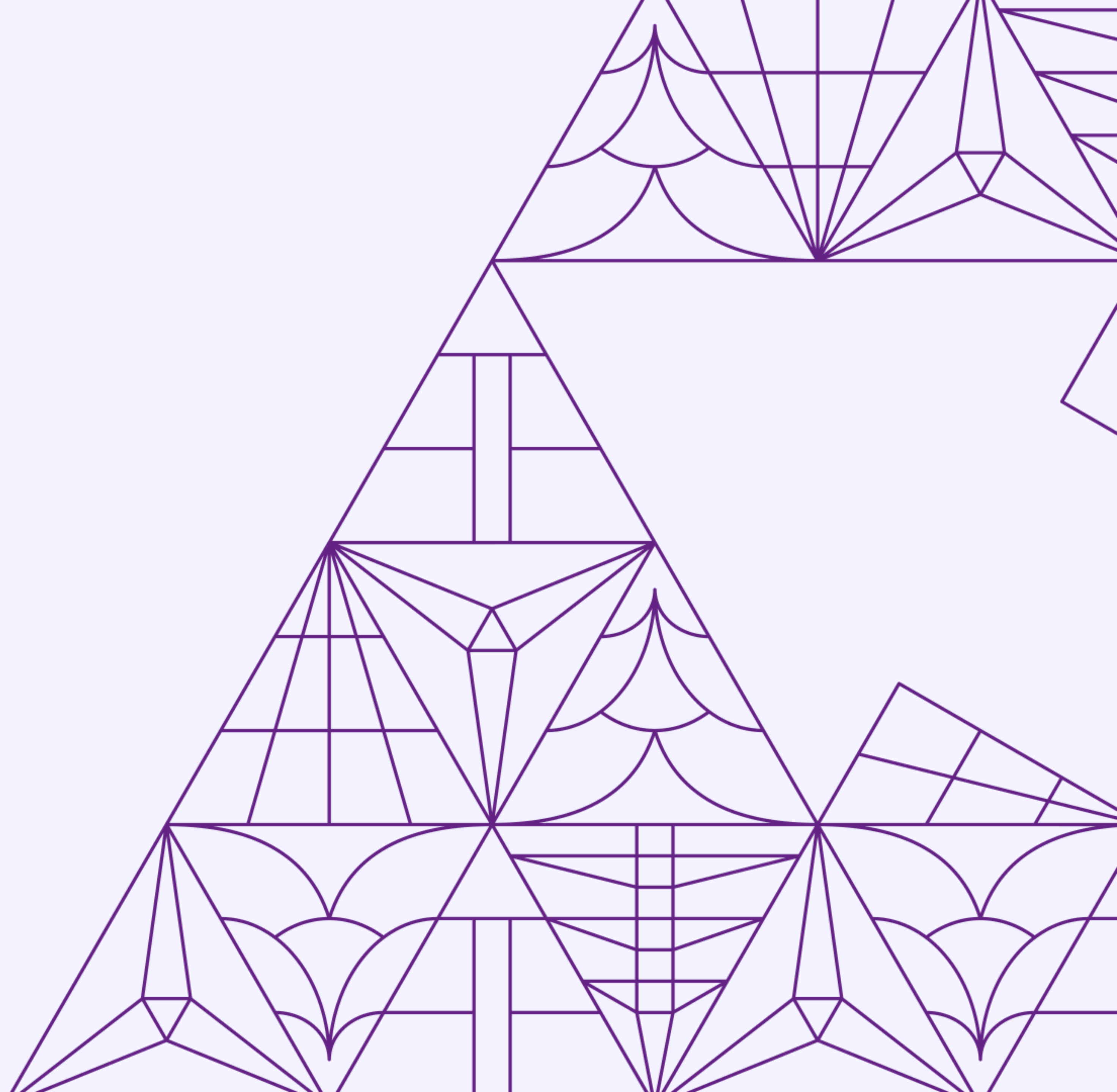
# Regulatory Arena



# Winning the win and moving the ball

- Large-scale clean energy supply
- Integrated Resource Planning and competitive procurement
  - Clean energy for reliability and affordability
  - When clean energy competes on a level playing field, clean wins
- Distributed Energy Resources and the distribution grid
  - Proactive planning for the electrified future
  - Leveraging the efficiency and capabilities of distributed supply and demand

# Thank you.



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[@AdvEnergyUnited](https://twitter.com/AdvEnergyUnited)

1801 Pennsylvania Avenue NW, Suite 410  
Washington, DC 20006