



# THE POWER OF PEOPLE



## Review of Strategic Directive BP-SD-09, Energy Efficiency

NPPD Board of Directors Meeting  
Strategic Session  
May 2023

David Rich, Sustainable Energy Manager



Nebraska Public Power District

*Always there when you need us*

# EnergyWise<sup>SM</sup> Introduction

EnergyWise<sup>SM</sup> is the Program “umbrella” for:

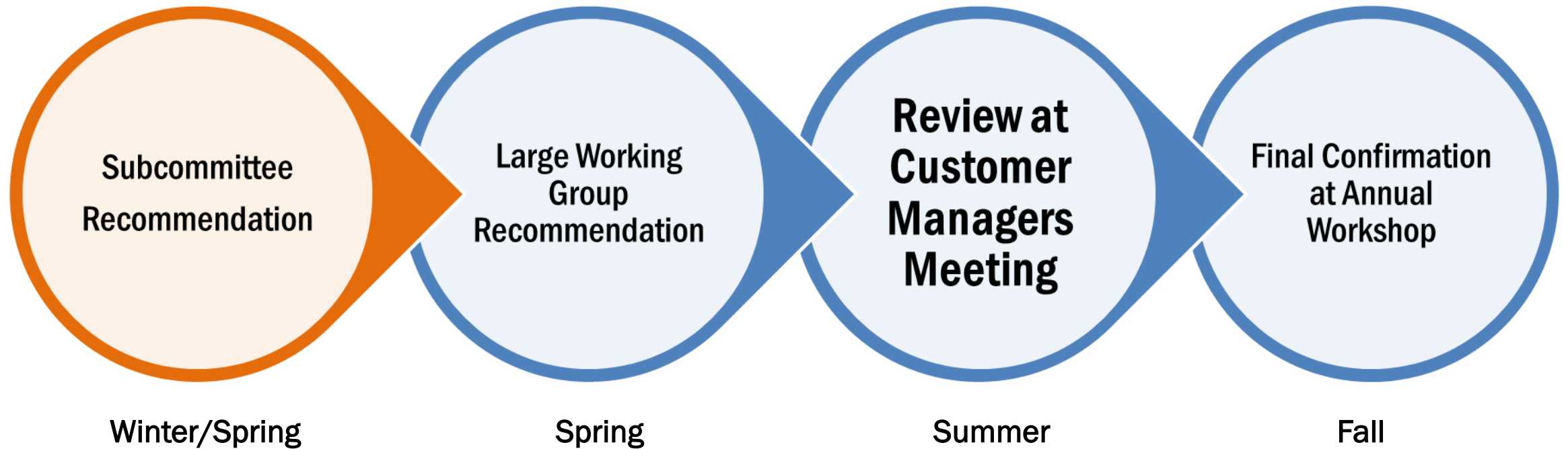
## Energy Efficiency

- Save energy and reduce costs for end-use customers
- Reduce the cost to serve load during peak usage
- Examples: Ground Source Heat Pump, Variable Frequency Drive

## Electrification

- Add load by converting fossil fuel sources
- Strategically add load that utilizes existing grid
- Reduction of CO<sub>2</sub>
- Save the customer money overall in energy purchases
- Examples: Electric Vehicles, Fossil Fuel Furnace / Water Heater to Electric Conversions, Battery Powered Mowers

# Wholesale Customer Process Flow





# 2023 Sustainable Energy Team



★  
  
**Chuck Vacha**  
 EE Consultant  
 Scottsbluff

★ Norfolk  
  
**Jim Loutzenhiser**  
 EE Consultant

**Aaron Jones**  
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**Brandon Gardels**  
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**Kelly Beiermann**  
 SE Coordinator  
  
**Chad Pinkelman**  
 Electrification Program Mgr  
  
**Dave Rich**  
 Manager  
  
**Steve Zach**  
 Supervisor

★ York  
  
**Ron Rose**  
 RE Consultant  
 ★ Lincoln  
  
**Cory Fuehrer**  
 EE Program Mgr

SE – Sustainable Energy  
 RE – Renewable Energy  
 SS – Sustainable Strategies  
 EE – Energy Efficiency

# **Review of Strategic Directive**

**BP-SD-09, Energy Efficiency**

**David Rich**  
**Sustainable Energy Manager**

# BP-SD-09, Energy Efficiency

**BOARD POLICY**  
**STRATEGIC DIRECTIVE**

Policy No. BP-SD-09  
Effective Date 06-09-22  
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## **ENERGY EFFICIENCY**

Nebraska Public Power District (NPPD) is committed to working in partnership with customers to maximize the value of their energy purchases in a cost-effective manner in order to:

- a. Help customers reduce costs, and improve business' bottom lines.
- b. Provide a service that engages customers in a positive way.
- c. Reduce the cost to serve load during peak usage.

NPPD will be a leader in promoting energy efficiency by:

- a. Partnering with our wholesale customers to develop and market cost effective energy efficiency programs, incentives, and services.
- b. Being a resource for efficiency information and technology for our wholesale customers.
- c. Building relationships with business partners (manufacturers, builders, dealers, etc.) and community colleges.
- d. Partnering with the Nebraska Department of Environment and Energy and other utilities in Nebraska to promote the efficient use of energy.
- e. Taking advantage of state and federal incentives, grants, and other opportunities as available.
- f. Educating customers and colleagues about energy efficiency principles and benefits.
- g. Offering energy use audits, calculators, information, and recommendations for improving energy usage.

# BP-SD-09, Energy Efficiency

**Nebraska Public Power District (NPPD) is committed to:**

- Using all available tools to keep affordable for wholesale and end-use customers
- Reduce the cost to serve load during peak usage periods
- Partnering with our wholesale customers to develop programs and services
- Being a resource for technical information for our wholesale customers
- Help end-use customers reduce costs and improve business' bottom lines
- Provide a service that engages customers in a positive way



# BP-SD-09, Energy Efficiency (Cont'd)

## NPPD is committed to:

- Building relationships with business partners and community colleges
- Partnering with the Nebraska Department of Environment and Energy and other Nebraska utilities
- Taking advantage of state and federal incentives, grants, and other opportunities
- Continually sharing helpful information with customers and teammates
- Offering energy use audits, calculators, information, and recommendations



# EnergyWise<sup>SM</sup> Programs: Energy Efficiency

## Residential

- Heat Pumps
  - Loan or Incentive
- Attic Insulation
- Cooling System Tune-Up
- Smart Thermostat
- Heat Pump Water Heaters



**ENERGYWISE**<sup>SM</sup>  
Use less. Spend less. Do more.

[www.EnergyWiseNebraska.com](http://www.EnergyWiseNebraska.com)

## Commercial / Industrial

- LED Lighting
- Variable Frequency Drives (VFD)
- Industrial Process
- HVAC Equipment
- HVAC System Optimization



## Agricultural

- LED Lighting
- Corner Pivot VFD
- Prescriptive Irrigation
- Custom Ag
- Agricultural Efficiency



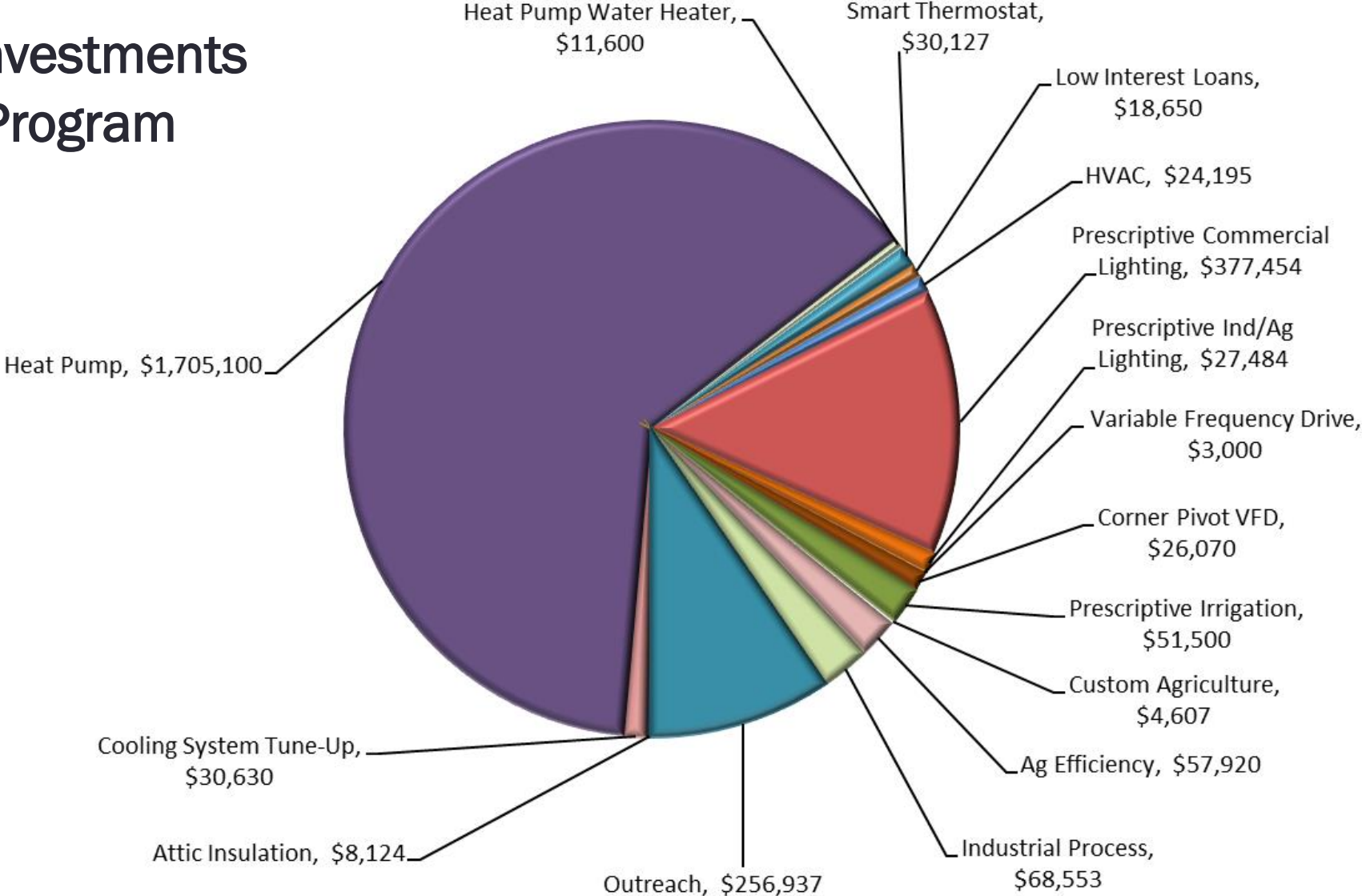
# BP-SD-09, Energy Efficiency

## 2022 EnergyWise<sup>SM</sup> Energy Efficiency Results

- \$2.6 M budgeted
- \$2.70 M invested\*
  - ✓ \$1.71 M - High Efficiency Heat Pumps (Residential)
    - 1,592 incentives
  - ✓ \$0.40 M - Lighting (Commercial/Industrial/Ag)
    - 701 incentives
  - ✓ \$0.59 M - Remainder of Programs
    - 2,565 incentives
- \*EnergyWise<sup>SM</sup> Annual Report for 2022, provides more details.
- Overall cost effectiveness of energy efficiency programs: \$0.01/kWh over LOM (Life of Measure)

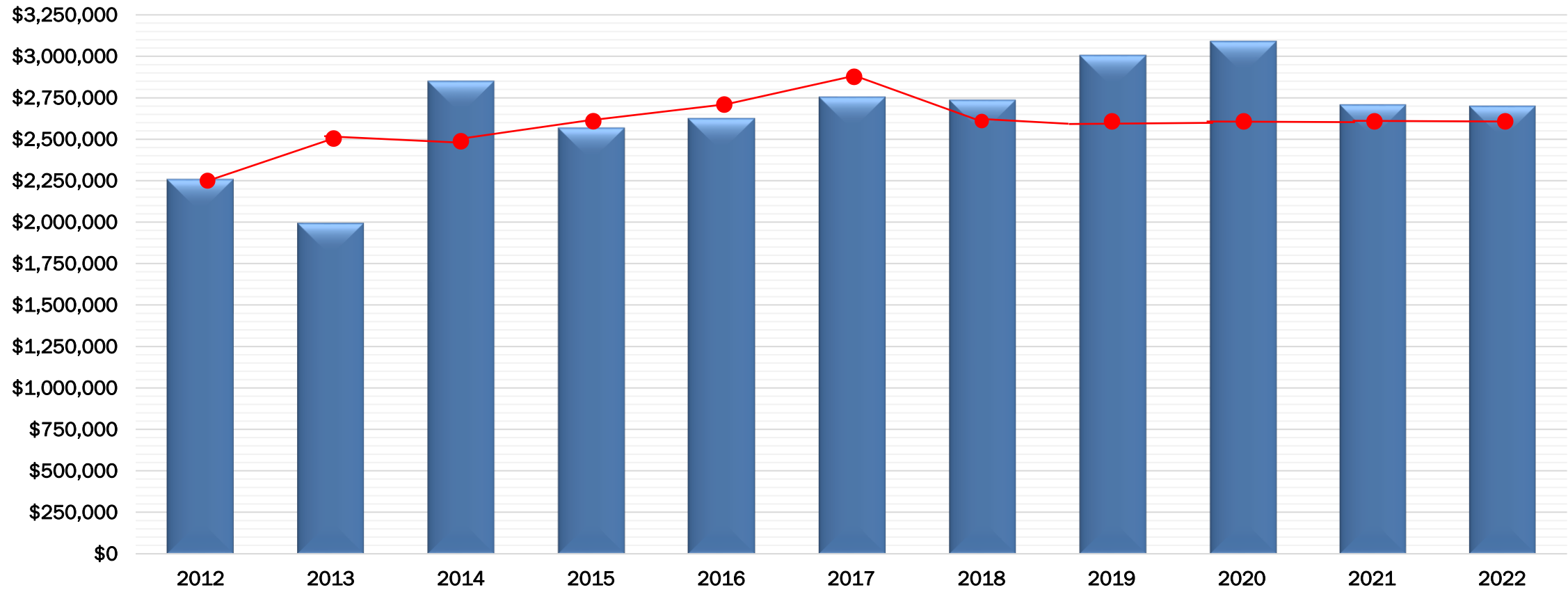
# BP-SD-09, Energy Efficiency

## 2022 Investments per Program



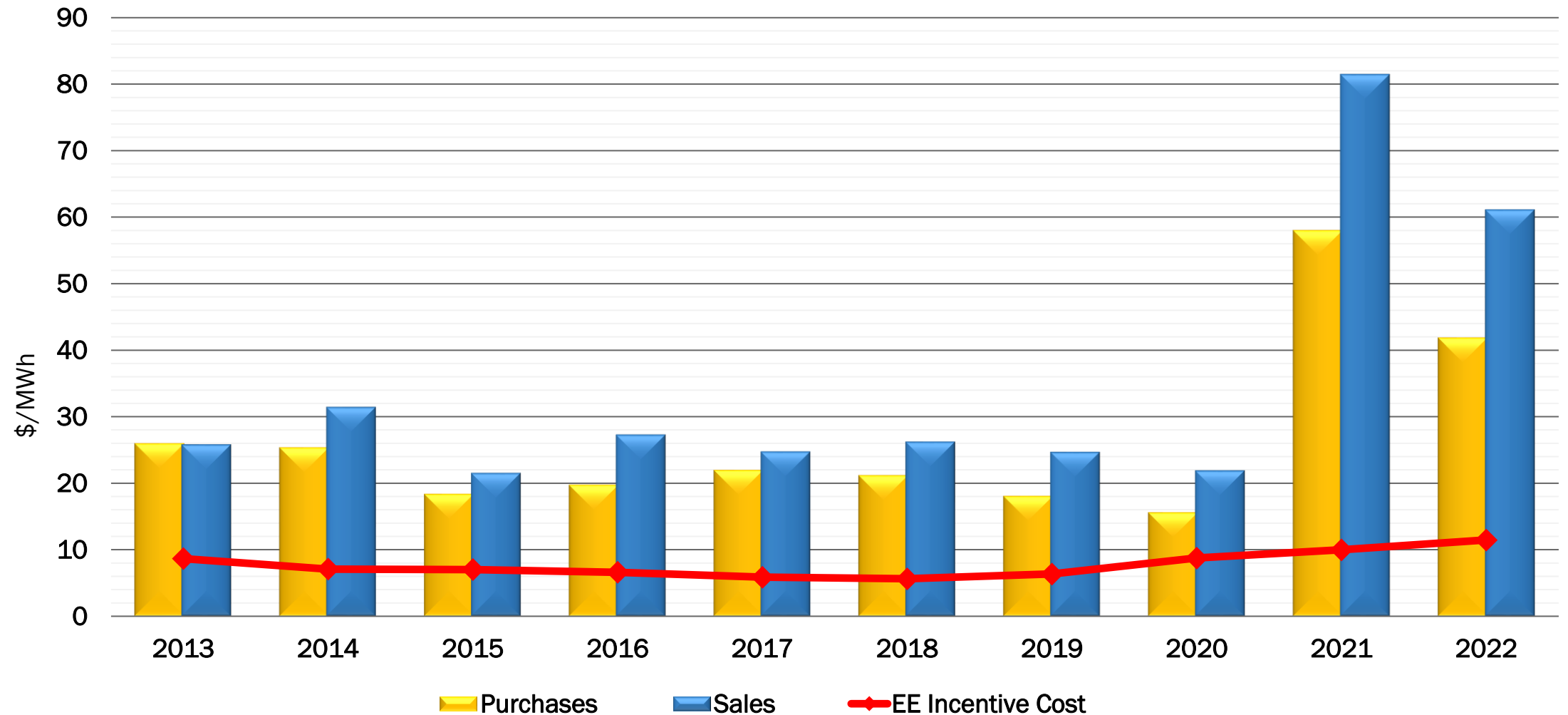
# Energy Efficiency Incentives by Year

● Budgeted amount

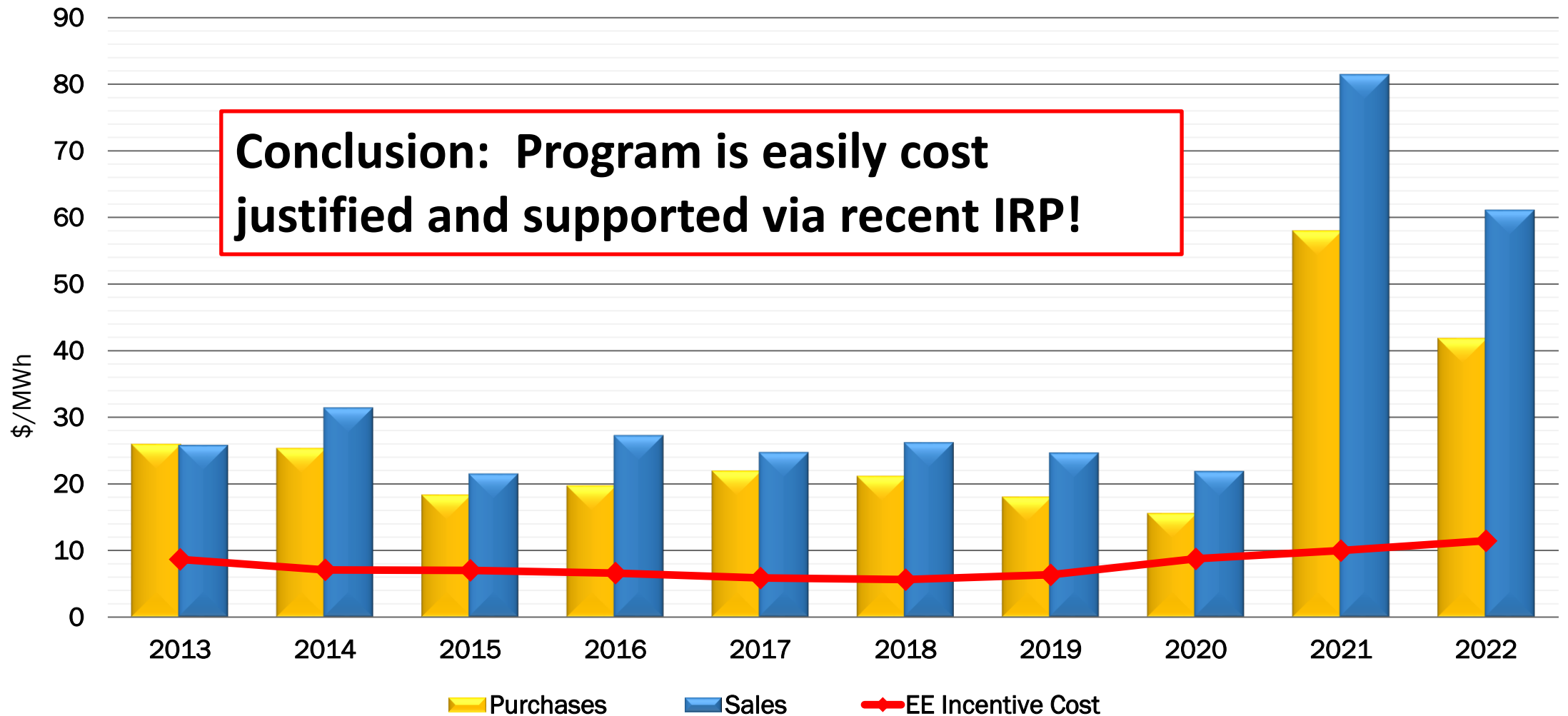


2023 EnergyWise<sup>SM</sup> Budget = \$2.6 M

# Energy Efficiency Incentive Cost vs Price of Non-Firm Purchases and Sales



# Energy Efficiency Incentive Cost vs Price of Non-Firm Purchases and Sales





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## Questions

Stay connected with us.



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