

# Agenda

01

### **Executive Summary**

✓ System sales/peak/customer graphics



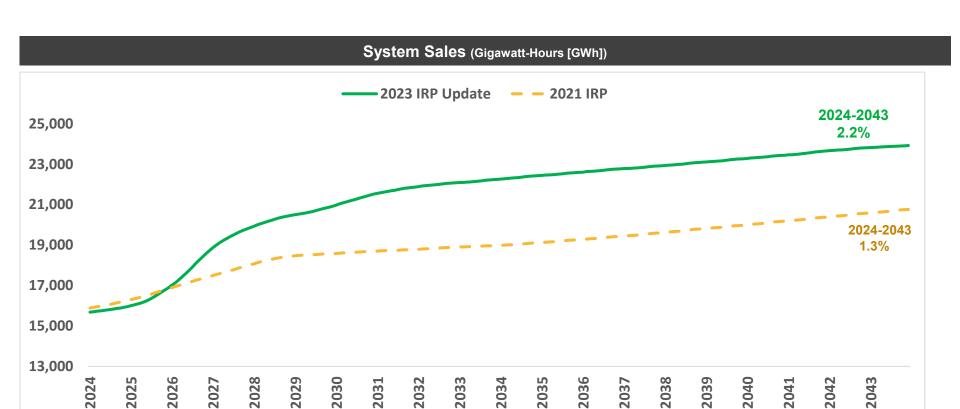
### **Class-Level Results**

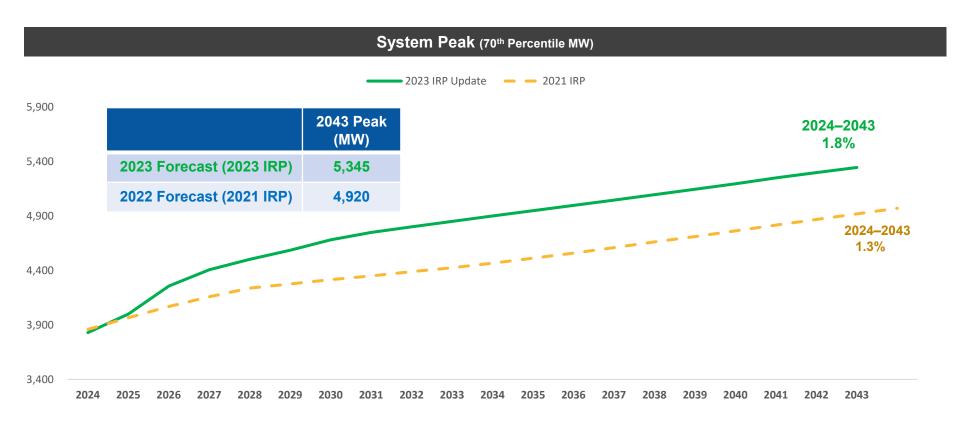
✓ Review of updated classes

02

### **Economic Discussion**

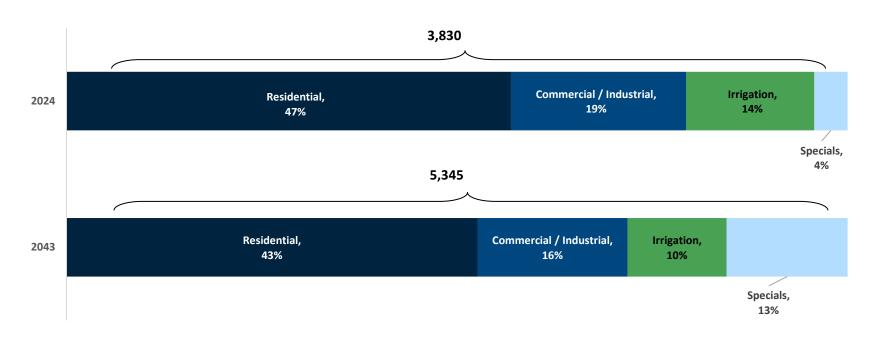
- ✓ Economic headline points
- ✓ New housing in Idaho Power service area
- ✓ Inflation
- ✓ Demographic backbone



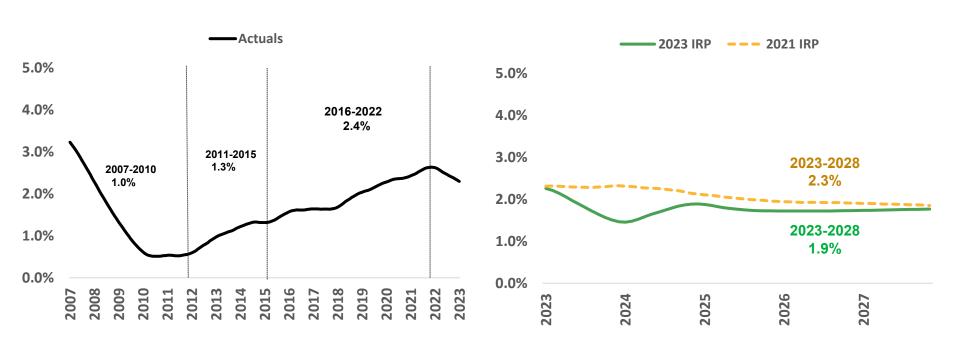


# **System Peak Forecast Contributions**

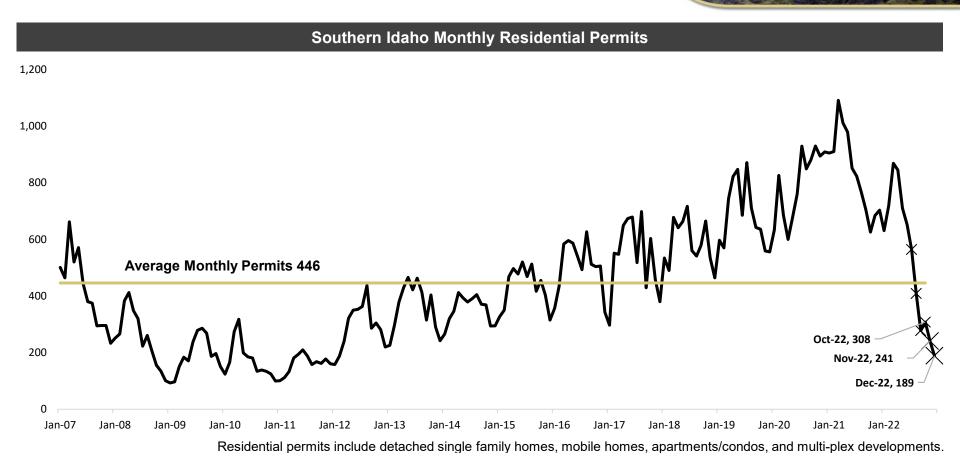
#### Customer Class Compositional Analysis of System Coincident Peak (MW) at 70th Percentile



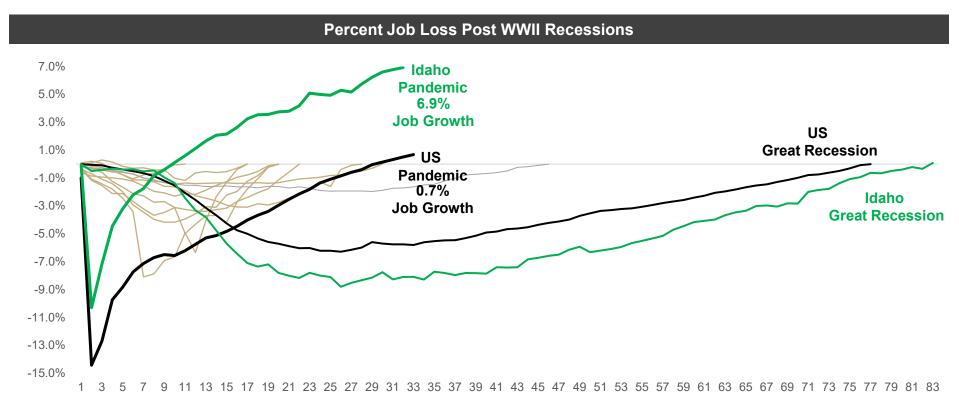
#### System Customer Growth (12 month % change)



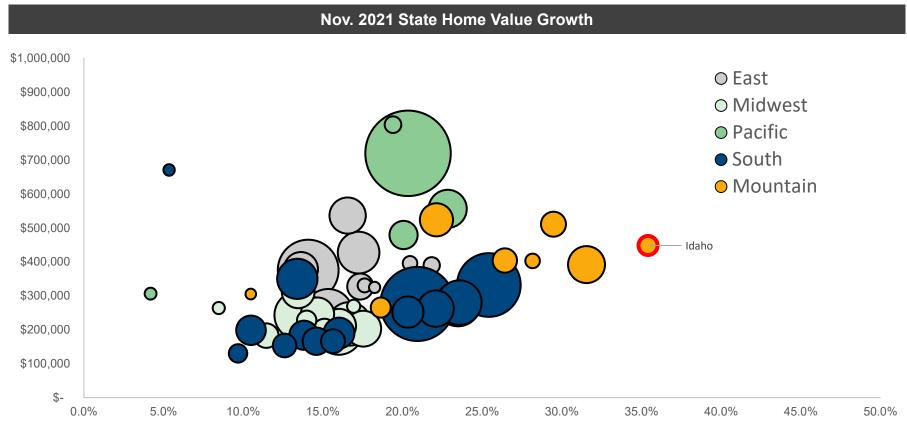
### **Residential Permits**



# **Comparative Analysis: US to Idaho**



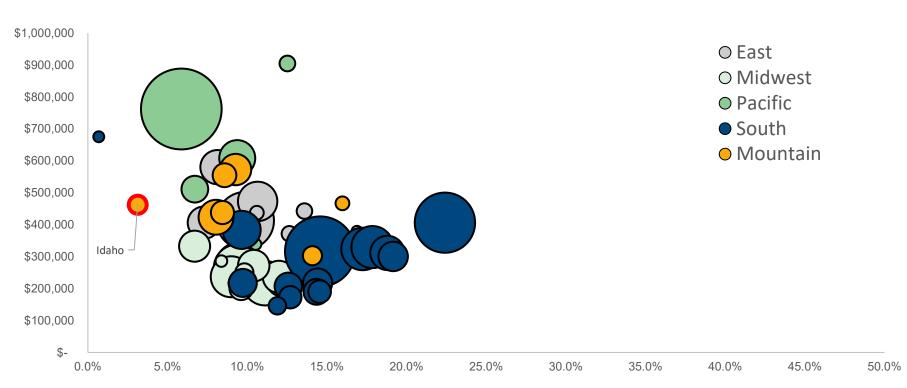
# **2021 Regional Home Value Growth**



Source: Zillow research. Zillow Home Value Index (ZHVI) of single-family homes through Nov. 30, 2021. Author's calculations.

## **2022 Regional Home Value Growth**

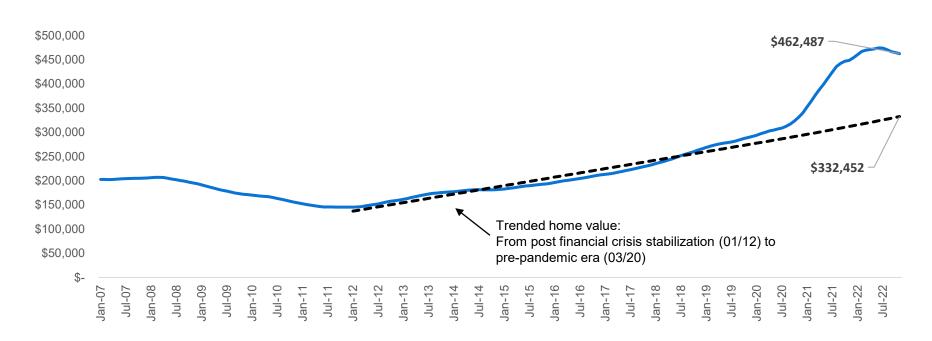
#### **Nov. 2022 State Home Value Growth**



Source: Zillow research. Zillow Home Value Index (ZHVI) of single-family homes through Nov.30, 2022. Author's calculations.

## Idaho Home Values Still High

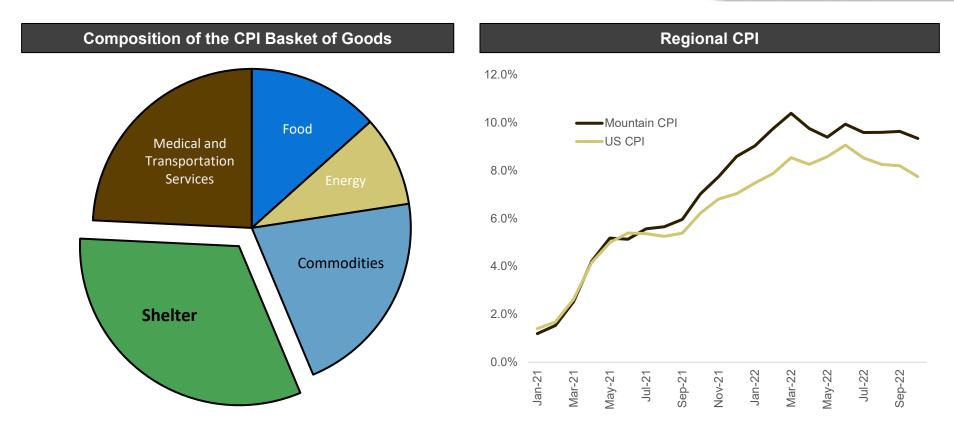




Source for home values: Zillow research. Zillow Home Value Index (ZHVI) of single-family homes. Source for income: U.S. Bureau of Economic Analysis (BEA); U.S. Bureau of Labor Statistics (BLS) Wage and salary disbursements: Total, (Mil. USD, SAAR).

Author's Calculations.

### Inflation's Intricacies



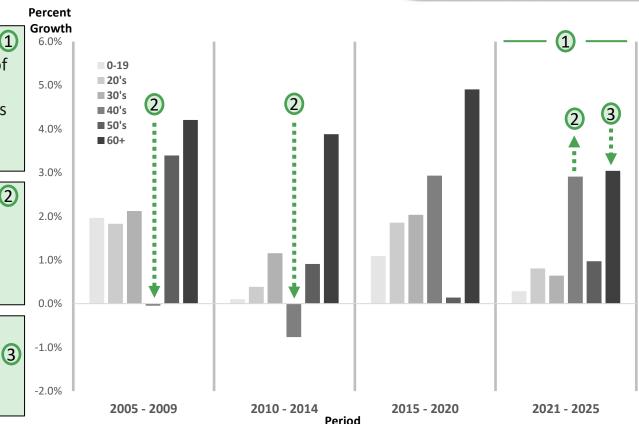
Source: Bureau of Labor Statistics. 2021 Basket of Consumer Price Index — Urban Consumers Bureau of Labor Statistics. Oct. 2022 Consumer Price Index Regional Report

# Age Demographics of Idaho

Continued above-average growth in (1) labor force that has, since the onset of the pandemic, expanded more in percentage terms than 45 other states is certainly being fueled, at least in part, by residents moving into Idaho.

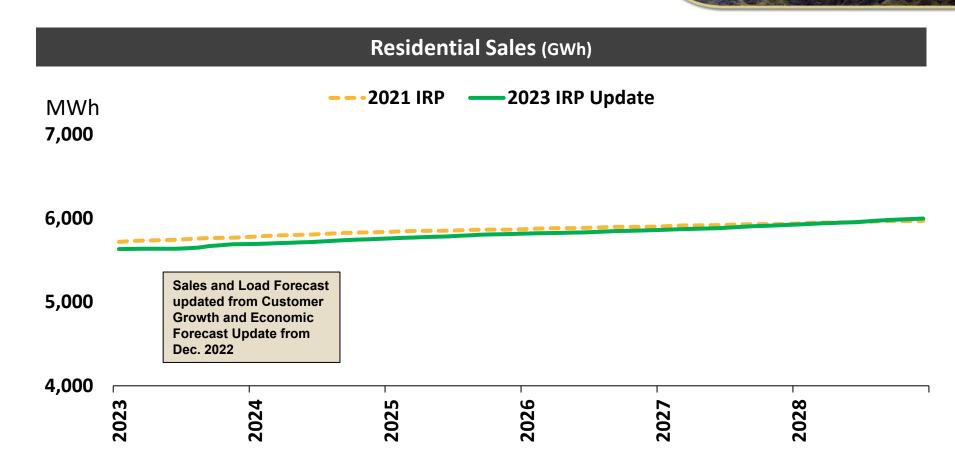
The growing popularity of Idaho among younger generations, coupled with expanding and diversifying employment opportunities, will support continued in-migration.

Rising mortgage rates and rents, combined with weak equity markets, may deter some retirees from relocating.

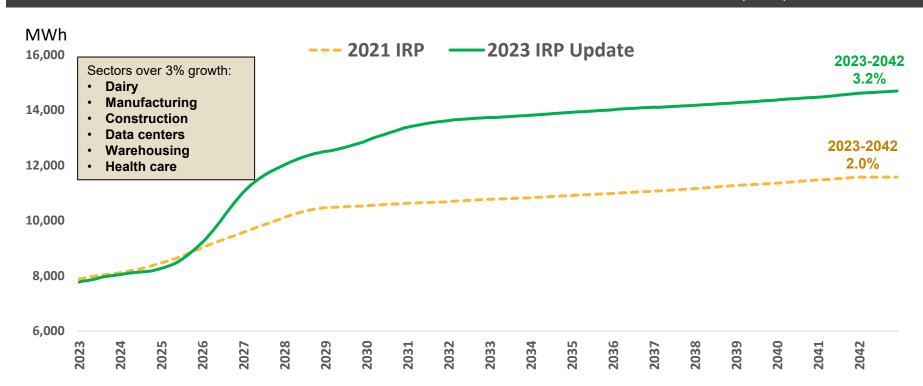


# **Class-Level Results**

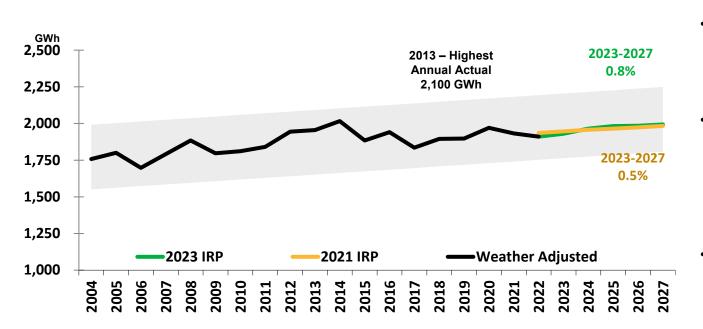
# **Residential Sales Forecast**



### Commercial and Industrial and Additional Firm Load Sales (GWh)







#### **Forecast Notes**

- Weather sensitive: Sales can be higher or lower by 225 GWh primarily due to weather.
- Main drivers include temperatures and precipitation, crop prices, agricultural output, and crop cycle water intensity (alfalfa and corn).
- Below 20-year trend: As forecast places more weight on near-term results and impact from on-site generation

## **Additional Considerations**

### **Load Sensitivities**

### → Rapid Electrification

- To include building electrification (e.g., heat pumps and heat pump H<sub>2</sub>O) as well as a geothermal heat pump configuration.
- Aggressive electric vehicle saturation (over ~150k baked into base).
  - Electrification load shape has been shifted to include some off-peak charging.

### → Load Flattening

Targeted residential load with a shift of 10% from peak to other hours.

#### → Extreme Weather

More frequent and extreme multi-day heat and cold events, higher peaks.