

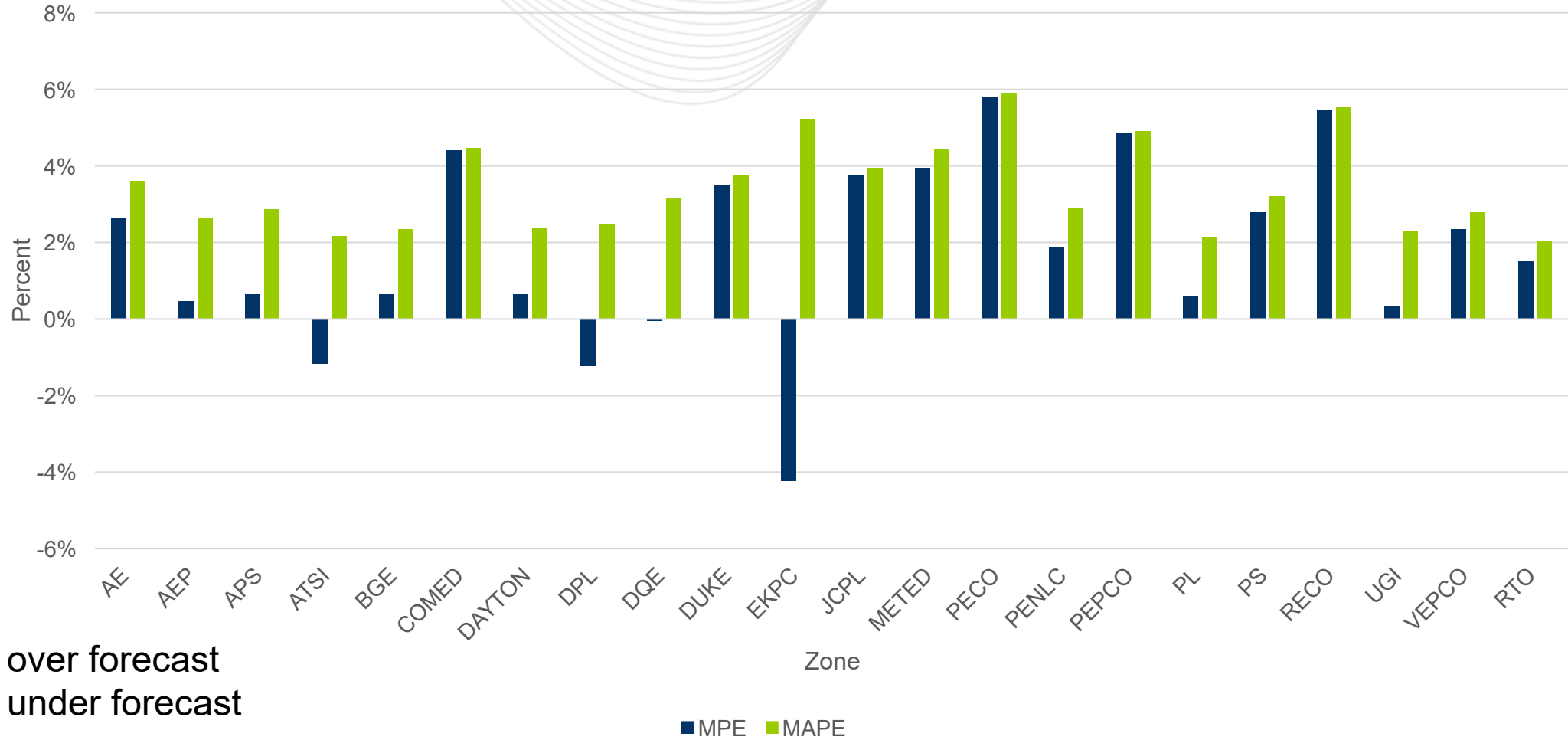
# Forecast vs Actual Fall & Winter 23-24

Patrick Cobb

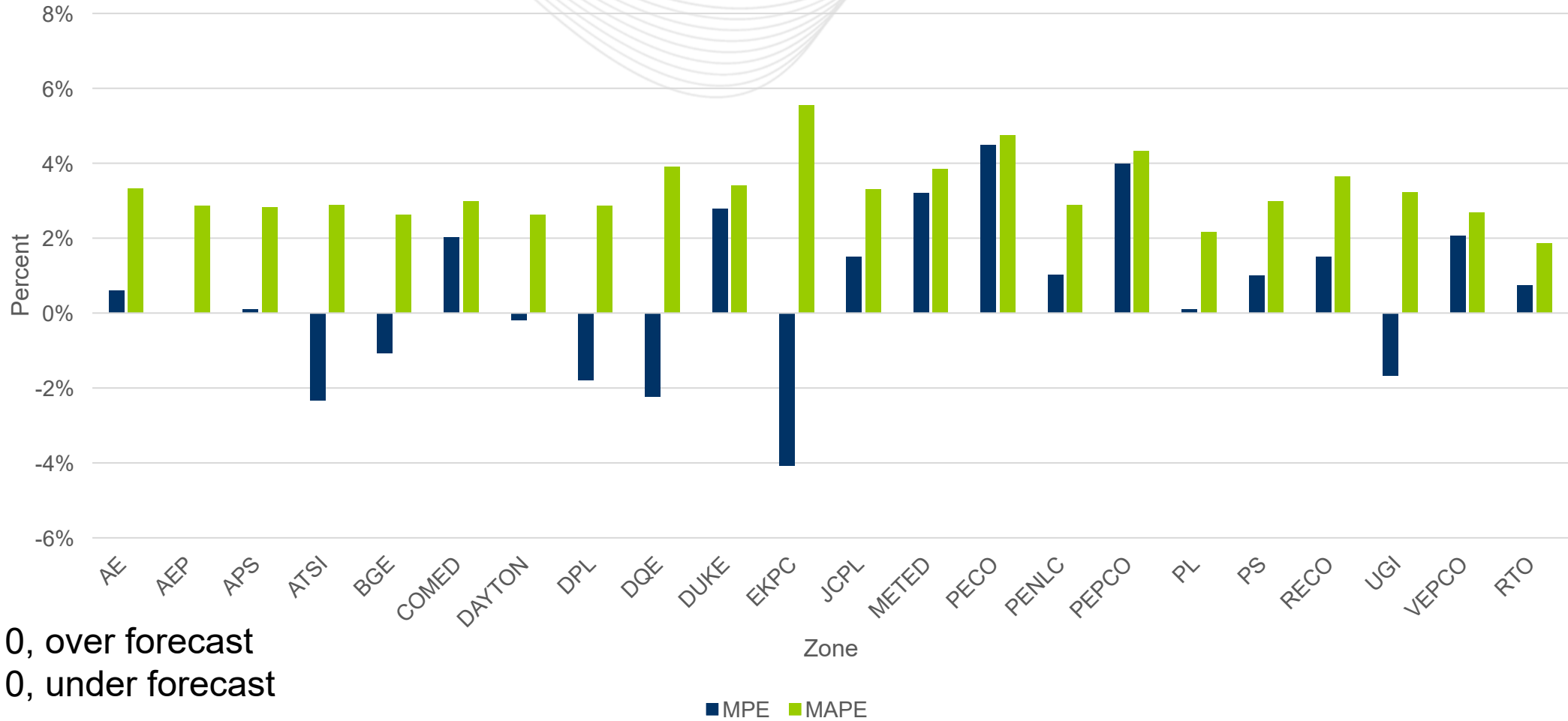
Resource Adequacy Planning

- Actual weather from September 2023 through February 2024 was run through the 2024 Load Forecast Model
- Results were compared to observed loads to determine forecast accuracy
  - RTO Daily Peak Mean Percent Error (MPE): 0.96%
  - RTO Daily Peak Mean Absolute Percent Error (MAPE): 1.78%
  - RTO Hourly MPE: 0.7%
  - RTO Hourly MAPE: 1.9%

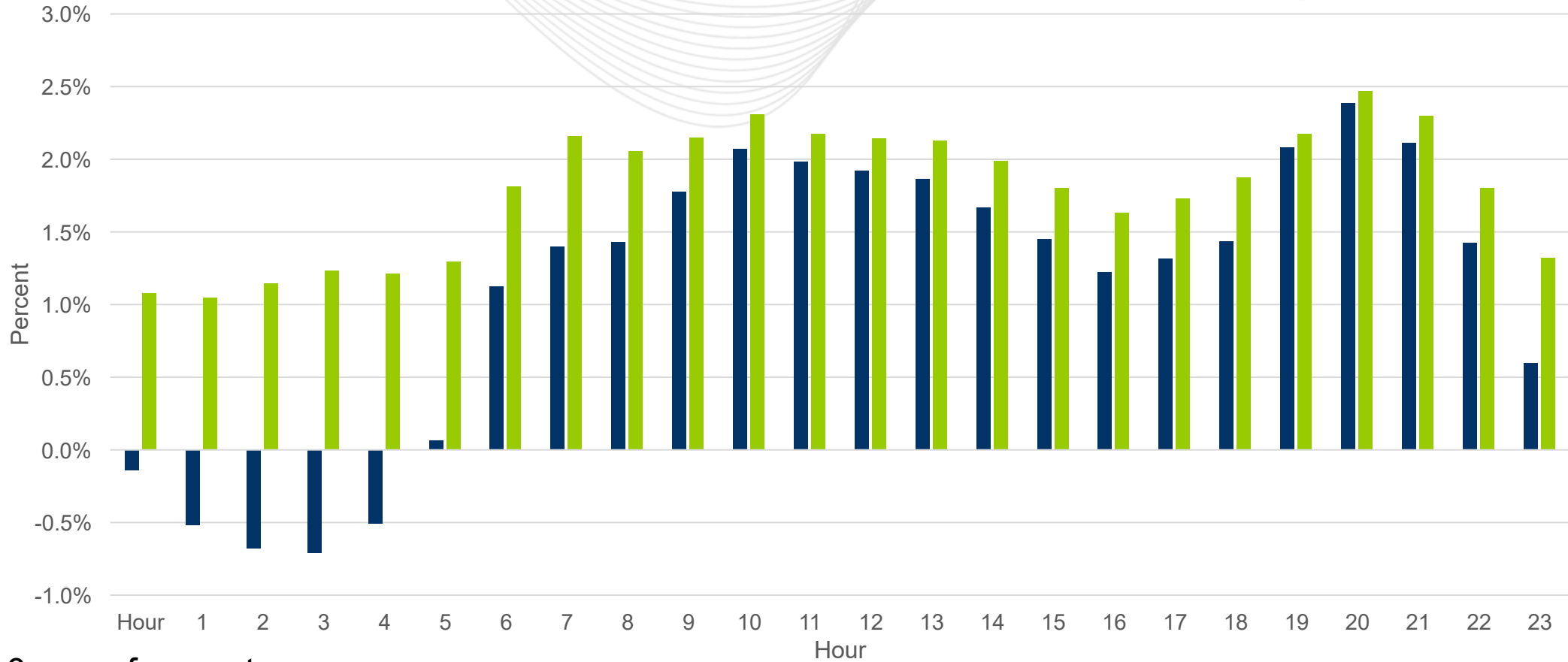
MPE & MAPE by Zone, Peak Hours September 2023-February 2024



MPE & MAPE by Zone, All Hours September 2023-February 2024



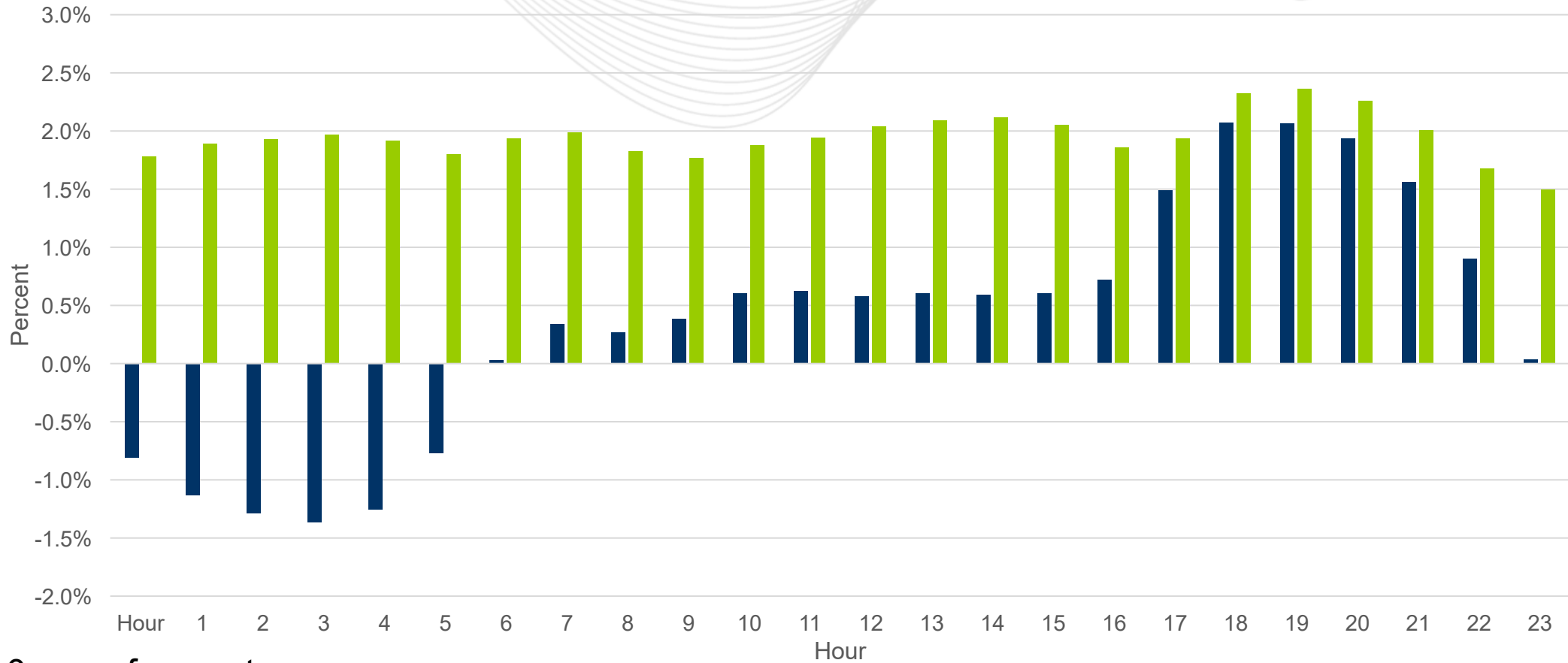
## MPE & MAPE by Hour Fall 2023



MPE > 0, over forecast  
 MPE < 0, under forecast

■ MPE ■ MAPE

## MPE & MAPE by Hour Winter 2023/2024



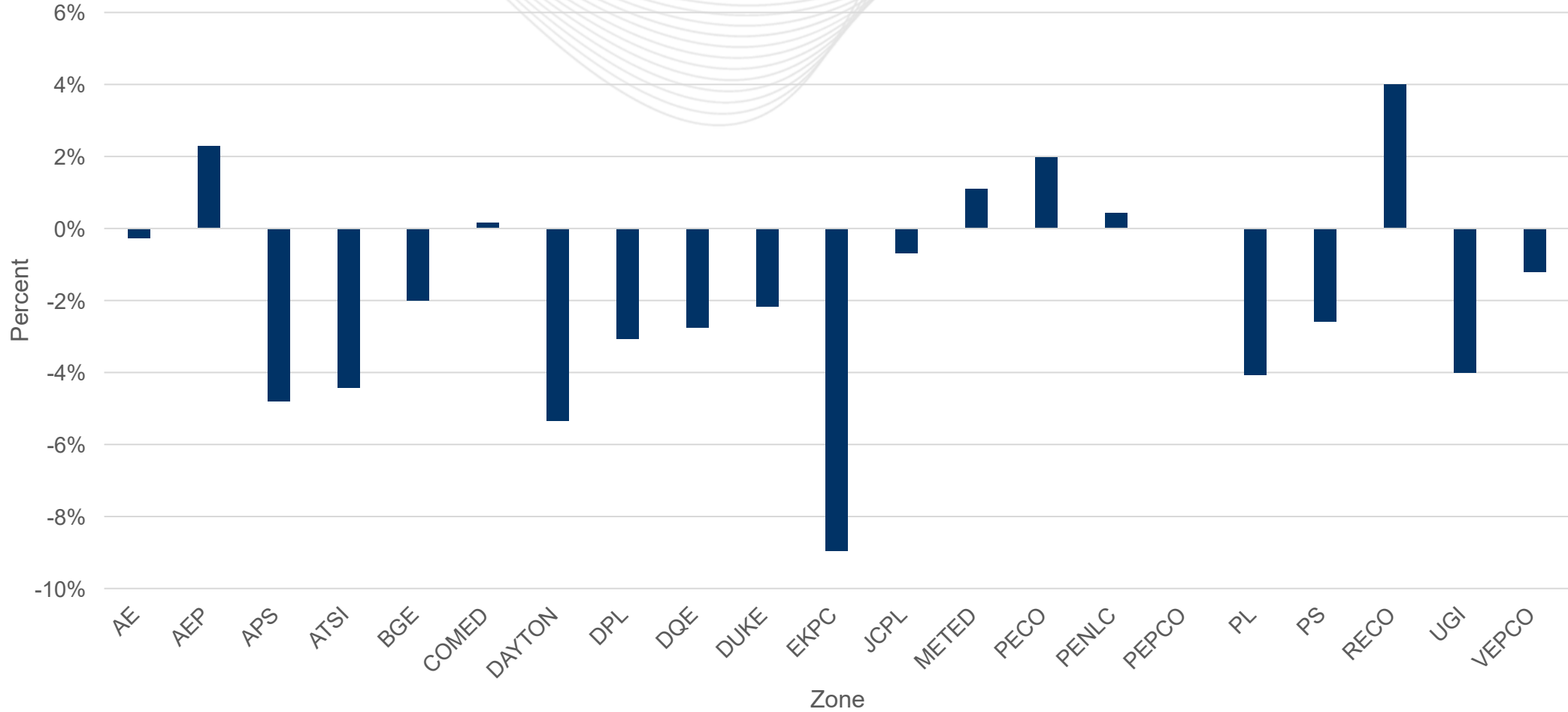
MPE > 0, over forecast  
 MPE < 0, under forecast

■ MPE ■ MAPE



# Zonal Winter Peaks Forecast vs Actual

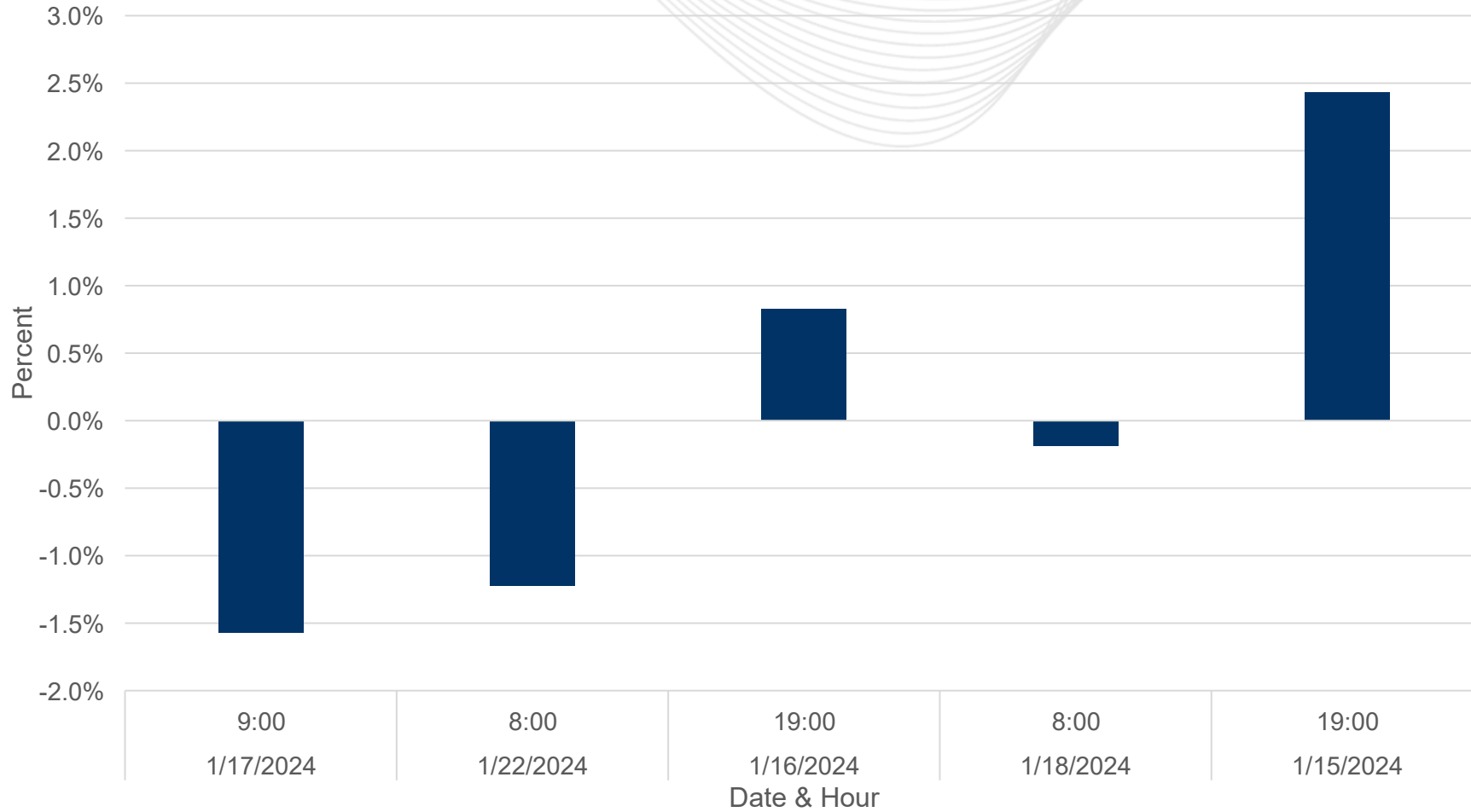
Percent Difference Forecast vs Actual Zonal Winter Peaks





# 5 Coincident Peak (5CP) Comparison

5CP Percent Difference Forecast vs Actual



MPE: 0.06%

MAPE: 1.25%

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**Forecast with Actual Weather**



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