## Rate Design to Support and Utilize Transportation Electrification

December 13, 2024



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## About E3 & the Interagency Rates Working Group (IRWG)



### **Current all-volumetric rates do not guarantee operating cost savings for EV owners**



# Annual and daily load shapes indicate times during which adding load does not add to utility costs

Annual ISO-NE Gross Load
Normalized MW



Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec

Daily ISO-NE Gross Load, 2023 Normalized MW



### Multiple options can improve near-term electrification economics



Energy+Environmental Economics \*This content is not necessarily reflective of forthcoming IRWG recommendations 5

# As a winter peak forms, intraday EV load shifting will be the most reliable way to limit utility cost growth

#### **Annual ISO-NE Gross Load**



Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec



# Policy-compliant geospatial electrification adoption forecasting promotes system efficiency through improved planning

## MW High Electrification Moderate Electrification Reference 2025 2050

## Incremental EV Peak Load MW



**Incremental EV Peak Load** 



### Thank You

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#### **Relevant Links:**

- IRWG homepage
- Factsheet: What is in an Electric Rate and What Does it Do?
- MA Electricity Rates Database
- Rates Affordability Memo (Coming Dec 2024)
- E3 Near-Term Rate Strategy Report and IRWG Recommendations (Coming Dec 2024)
- E3 Long-Term Ratemaking Study and IRWG Recommendations (Coming Jan 2025)