

#### Introduction

- Cooperation and trading among utilities is not new.
  - It is critical to have utility trading partners to maintain reliability and to reduce costs to our customers.
- NorthWestern supports an evolutionary and incremental approach to regional cooperation.
- Energy Independence and participation in these regional programs are completely consistent.

# Characteristics of Good Markets and Programs

- Connectivity
  - Adequate transmission connections to other participants
- Large Footprint
  - Diversity of loads and resources drives the benefits
- Transparency
  - Clearly defined and consistently applied rules for participants
- Capacity
  - Rules that ensure that each entity carries its share of capacity
- Governance
  - Equitable structure that ensures a meaningful voice for NorthWestern and its customers as well as the State of Montana

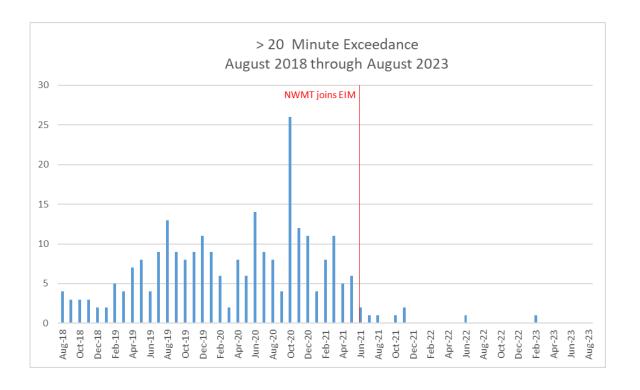
# Western Energy Imbalance Market

Within-hour dispatch of energy to economically meet load across the market footprint

- Market was initiated by CAISO and PacifiCorp in 2014 and now includes over 20 participants
- NorthWestern joined in 2021

NorthWestern's customers have experienced consistent benefits from both the economic and reliability perspectives.

 CAISO estimates that the gross benefits for NorthWestern's Balancing Authority have totaled over \$60 million since June of 2021



## Western Resource Adequacy Program

- Not a market, but a voluntary program
  - If we did not participate, costs for our customers would be significantly higher in order to provide the same level of reliability
- NorthWestern has been involved in the development since its beginning in 2019
- Helps ensure each participating entity owns or control enough capacity to meet its own expected peak load, plus a planning reserve margin
- Provides benefits through diversity of loads and resources

### EDAM and Markets+

- EDAM and Markets+ represent further incremental steps
  - Both markets would provide day-ahead resource commitment, greatly increasing the benefits we have seen in the intra-hour energy imbalance markets
- NorthWestern is closely watching the development of both markets
  - We will very likely join one of the markets
    - It would be very difficult to operate outside the day-ahead markets when virtually all of our trading partners are in one or the other
  - Our decision will depend on the factors discussed earlier (connectivity, footprint, transparency, capacity, governance)

# Going Forward

NorthWestern will continue to closely follow and participate in regional development

- Montana's voice matters
  - Important for both public and private sectors to participate in discussions
  - All of the regional development efforts include forums for participation by state commissions, energy offices, etc.
  - All include stakeholder forums for participation by other stakeholder groups