Integrating More Renewable Energy
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VER Integration Challenges

• Limited or no dispatchability
• Sudden changes in VER output can jeopardize system reliability
  • Degradation of frequency response
• Over Generation
• Cost of integrating VERs may impact overall power costs
PacifiCorp’s Efforts to Effectively Integrate VERs

- Effective day-ahead and real-time forecasting of VERs
- Integration of VER forecasts into daily business and market operations practices
  - forecasts are not just for situational awareness
- Utilizing more dispatch flexibility across PacifiCorp’s entire generation fleet
- Reliance on natural gas storage to provide intra-day dispatch flexibility on gas turbines
- Regional Diversity
  - Energy Imbalance Market
  - Broader Balancing Authority Areas