



Demand Response as a Resource

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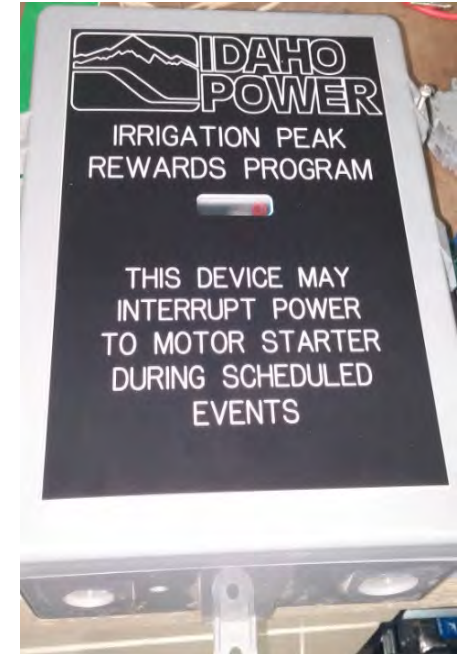
Idaho Power's Current Demand Response Programs

- Irrigation Peak Rewards ~ 315 megawatts (MW)
- Flex Peak ~ 36 MW
- A/C Cool Credit ~ 28 MW

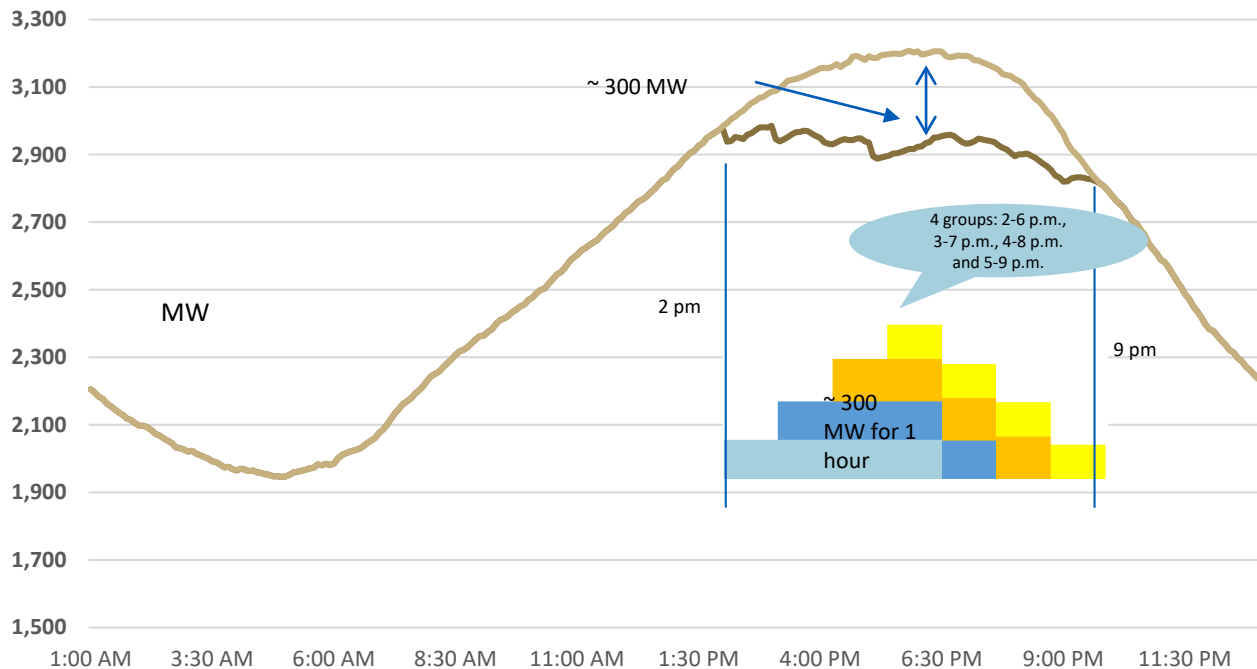


Premise of our Current Programs

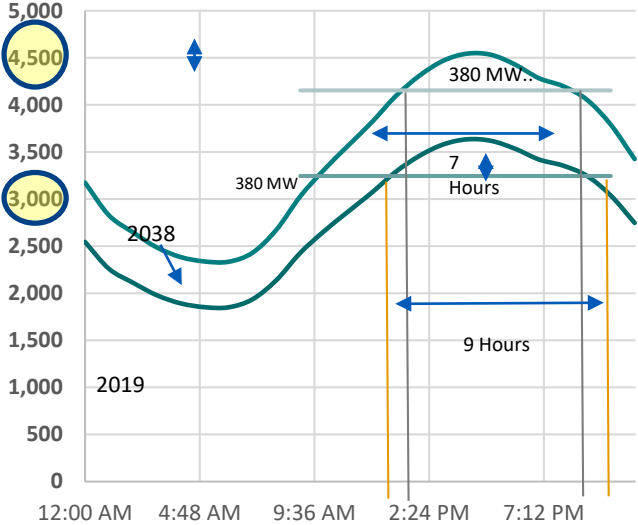
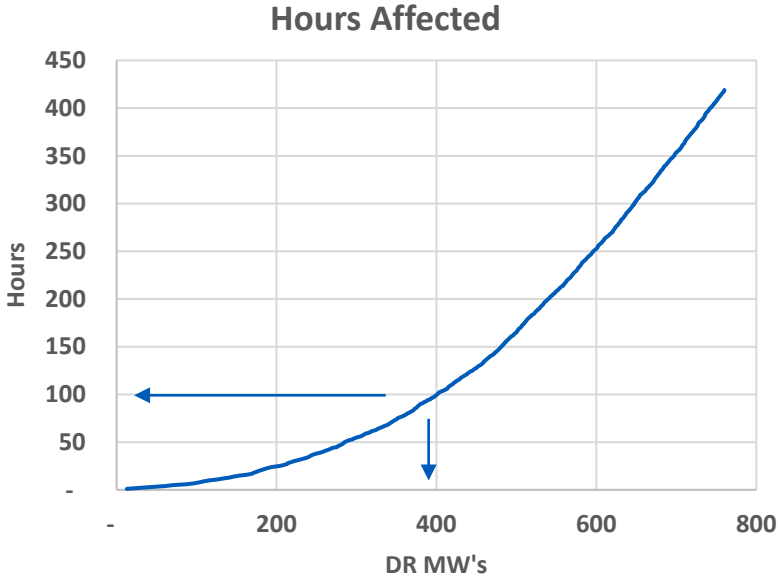
- As result of low-cost planning in IRP
- Designed to **avoid or delay** the need to build **new** supply-side **peaking** resources
- Capacity resource: very limited hours; low-cost to have, but not low-cost to use
- Cheaper than building another resource that would only run occasionally
- Planned as a last-resort resource even after market purchases on firm transmission



Irrigation Demand Response Event



Past IRP Analysis

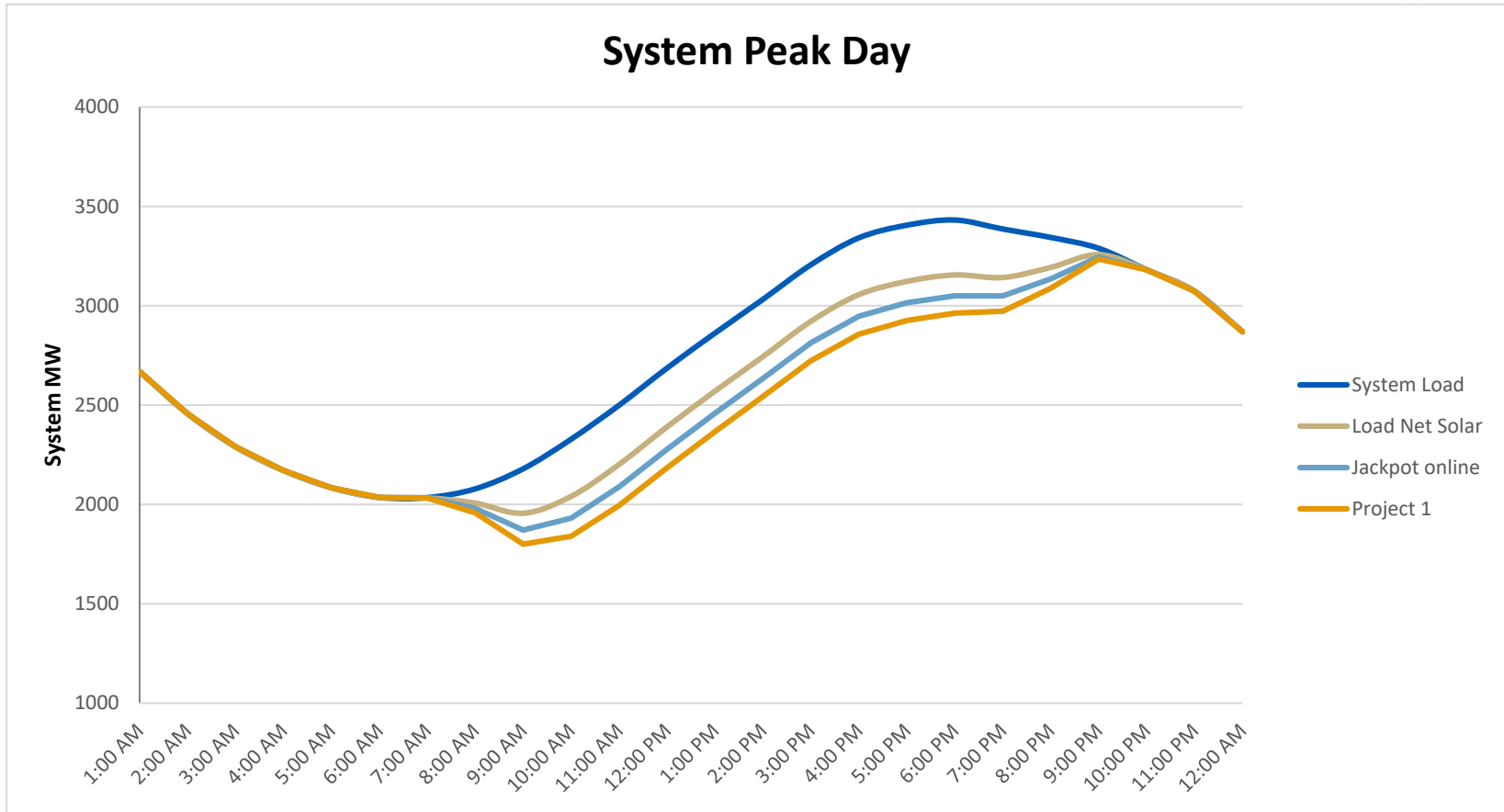


2021 IRP Analysis

- Net peak load drives the need
- Need is on extremely hot summer evenings after solar falls off
- Modifies a fundamental premise of the programs

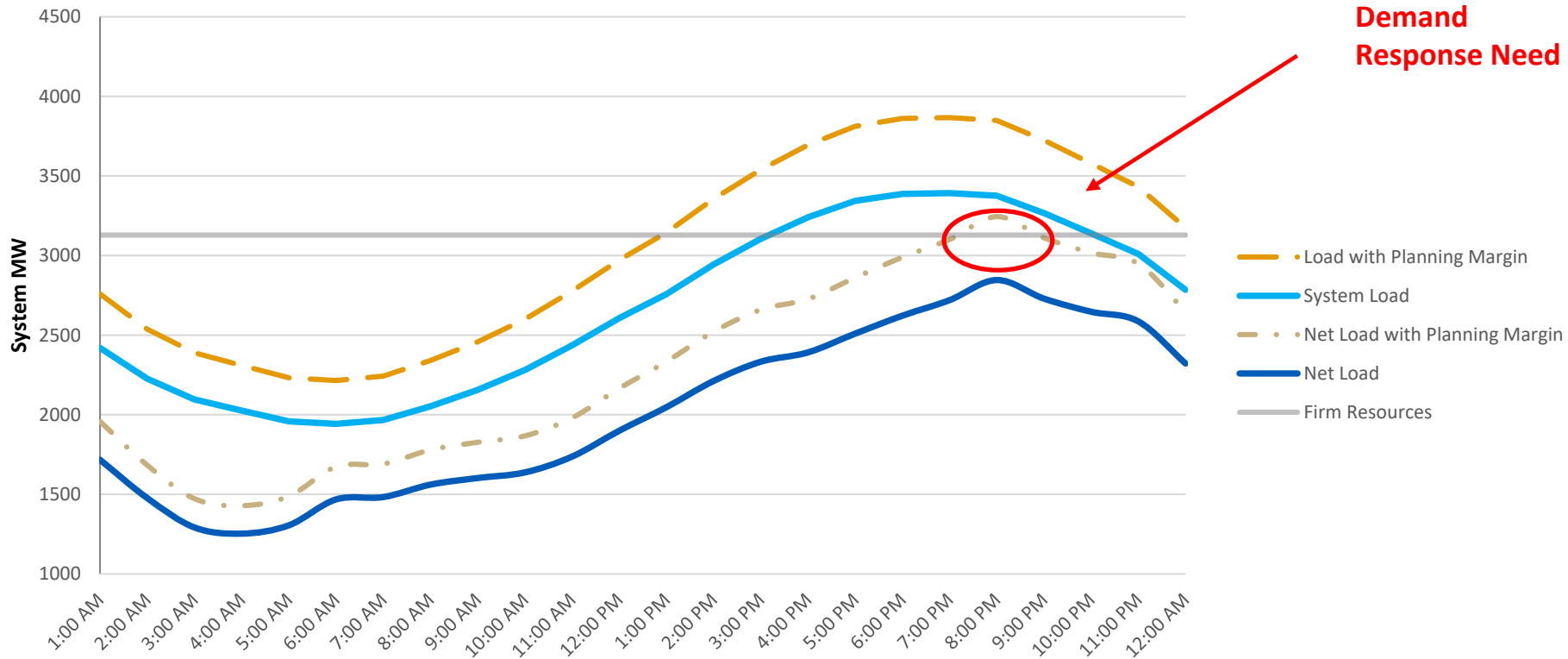


A New Paradigm

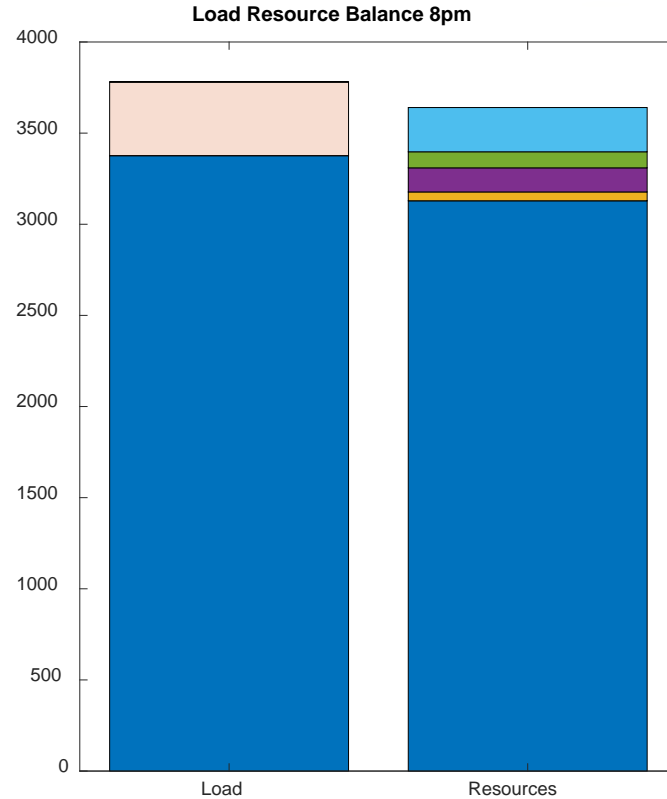
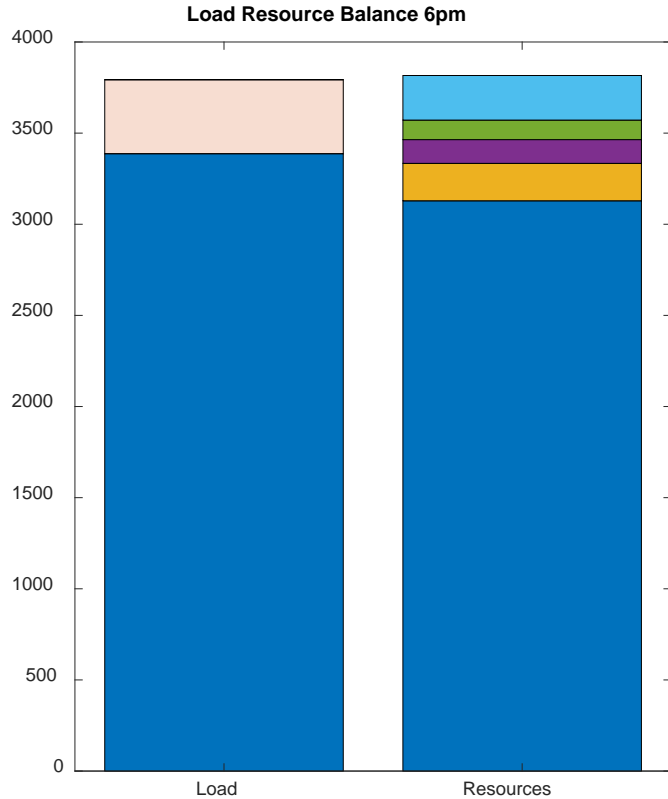


A New Paradigm

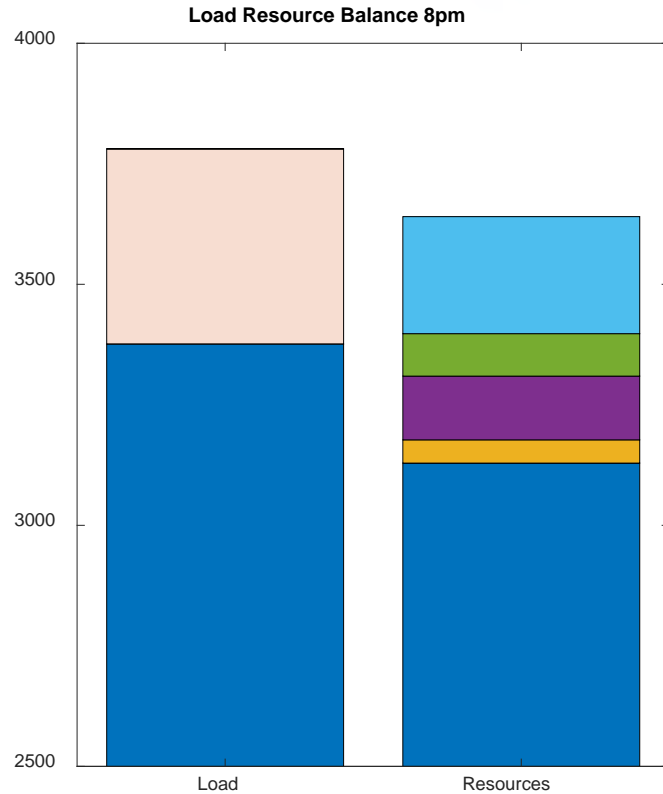
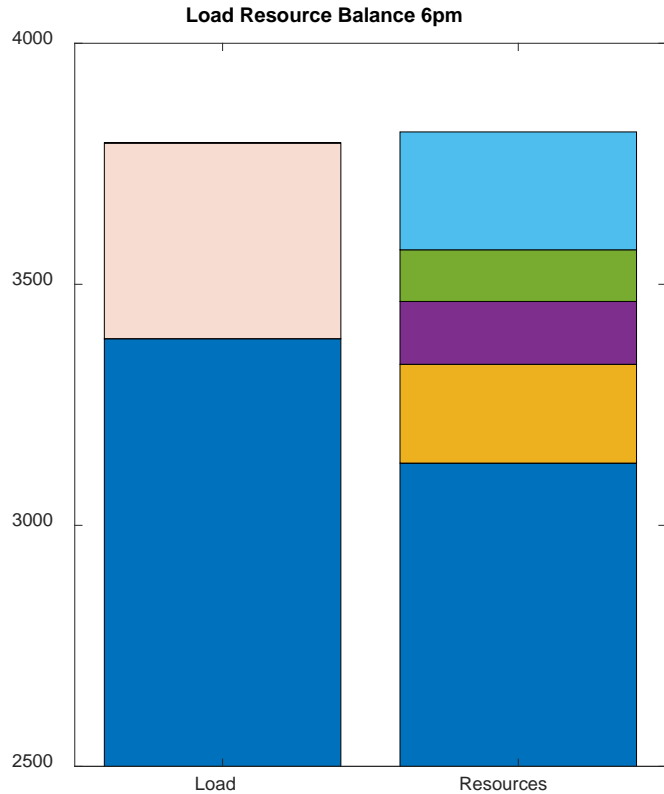
System Load vs Net System Load



Load Compared to Resources



Load Compared to Resources



- Firm Gen
- Planning Margin
- PV
- Cogen
- Wind
- Run of River

Additional IRP Informed Analysis



- Determine:
 - Demand response season
 - Maximum demand response that could be utilized
 - Costs of demand response to model in Aurora

2021 IRP Analysis Impacts



- Reconsider effectiveness of current programs
- Parameters informed by Effective Load Carrying Capability methodology
- Current program criteria may need to change
 - ✓ Hours of use
 - ✓ Length of season
 - ✓ Other details
- Estimate impact on participation



2021 Plans

- Verify/identify changes
 - ✓ Engage with customers and other interested parties
 - ✓ Define new program parameters to support needs
 - ✓ Plan to file needed changes to program tariffs late summer/early fall 2021
- Implementation in 2022 season

Questions/Comments?

