

#### Final Availability Assessment Hours

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# AVAILABILITY ASSESSMENT HOURS



## Availability assessment hours: Background and purpose

- Concept originally developed as part of the ISO standard capacity product (SCP)
  - Maintained as part of Reliability Service Initiative Phase
     1 (i.e. RA Availability Incentive Mechanism, or RAAIM)
- Determine the hours of greatest need to maximize the effectiveness of the availability incentive structure
  - Resources are rewarded for availability during hours of greatest need
  - Hours determined annually by ISO and published in the BPM
    - See section 40.9 of the ISO tariff

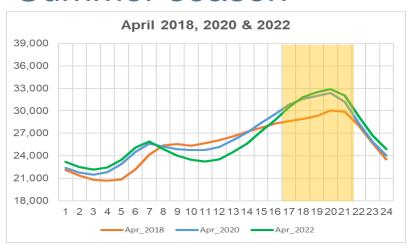


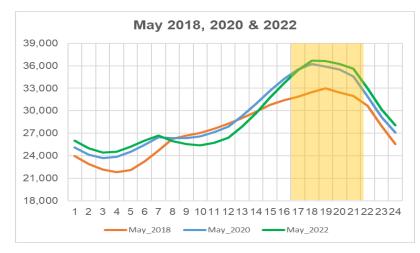
### Methodology overview of system/local availability assessment hours

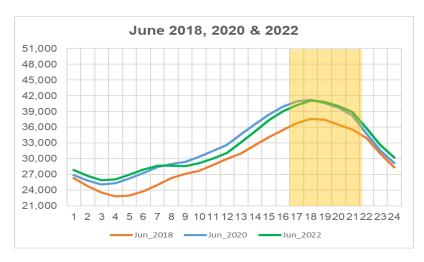
- Used data described in previous slides to obtain:
  - Hourly Average Load
    - By Hour
    - By Month
    - Years 2020-2022
- Calculated:
  - Top 5% of Load Hours within each month using an hourly load distribution
  - Years 2020 through 2022

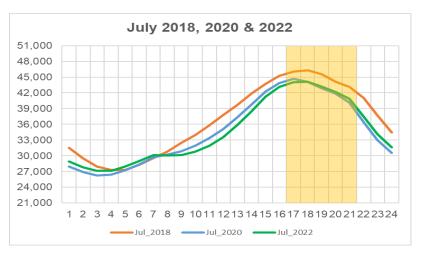


## Expected load shape evolution: Summer season





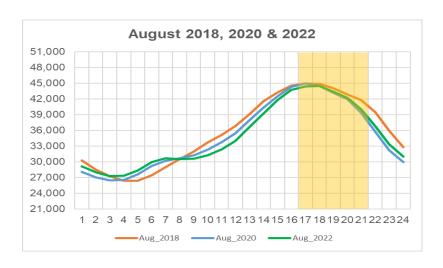


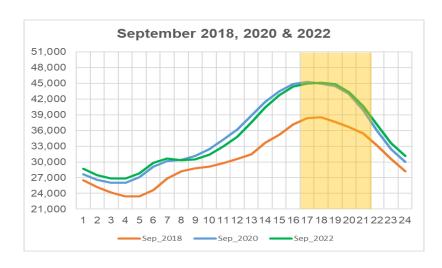


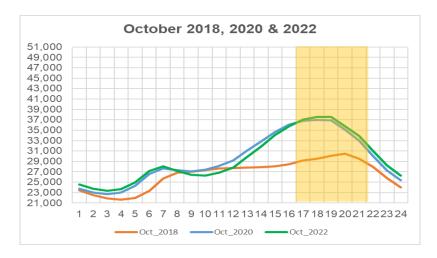


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## Expected load shape evolution: Summer season



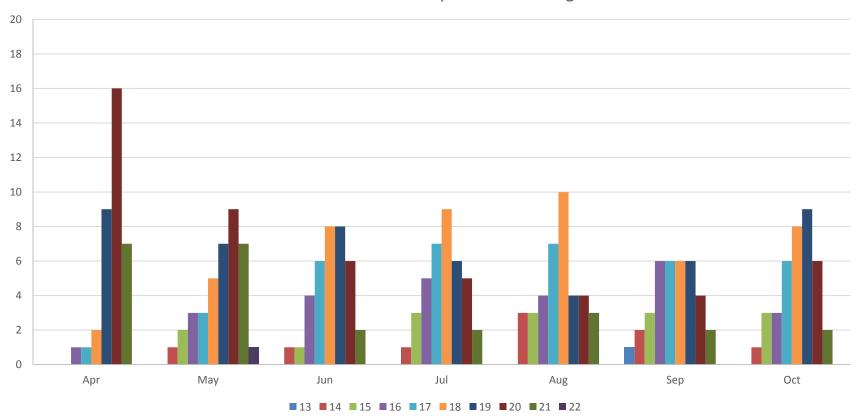




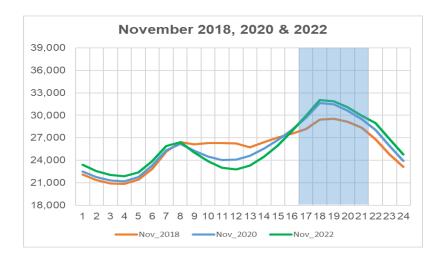


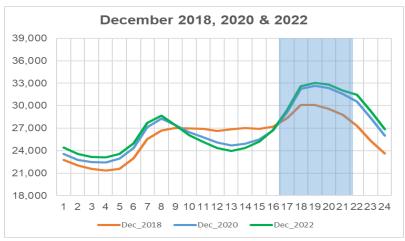
#### Summer Season 2020 top 5% of load hours (in HE)

Summer Season: Top 5% Hour Ending



## Expected load shape evolution: Winter season

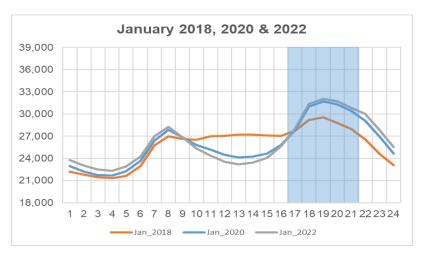


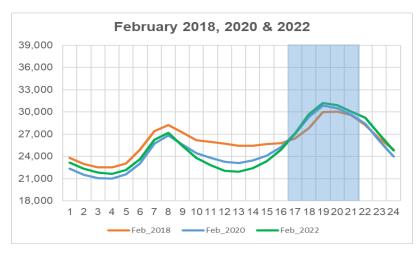


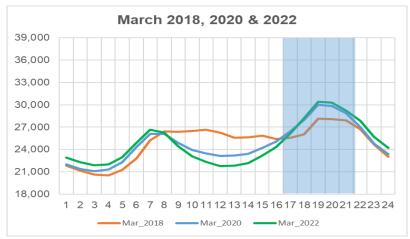


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## Expected load shape evolution: Winter season



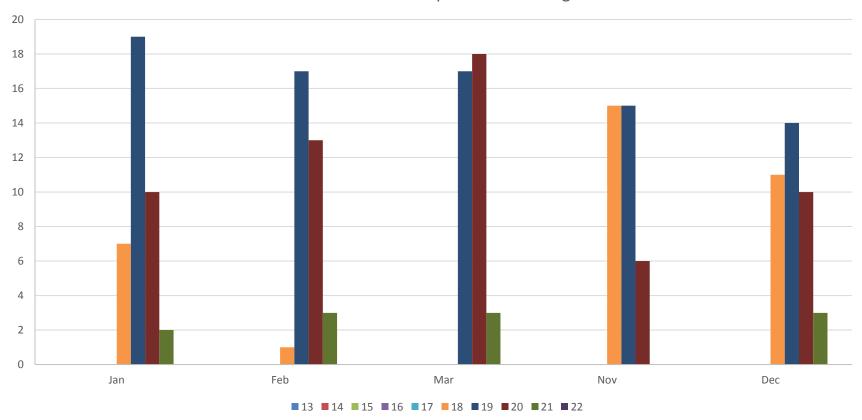






#### Winter Season 2020 top 5% of load hours (HE)

Winter Season: Top 5% Hour Ending





## Availability assessment hours draft recommendation

#### Winter Season Draft Recommendation

Year	Start	End
2019 (Final)	HE 17	HE 21
2020 (Final)	HE 17	HE 21
2021 (Estimate)	HE 17	HE 21
2022 (Estimate)	HE 17	HE 21

#### Summer Season Draft Recommendation

Year	Start	End
2019 (Final)	HE 17	HE 21
2020 (Final)	HE 17	HE 21
2021 (Estimate)	HE 17	HE 21
2022 (Estimate)	HE 17	HE 21

#### Reliability Requirements; Section 7 –No BPM Updates Needed

#### **2020 System and Local Resource Adequacy Availability Assessment Hours**

Analysis employed: Top 5% of load hours using average hourly load

Summer – April 1 through October 31

**Availability Assessment Hours: 4pm – 9pm (HE17 – HE21)** 

Winter – November 1 through March 31

**Availability Assessment Hours: 4pm – 9pm (HE17 – HE21)** 

#### 2020 Flexible Resource Adequacy Availability Assessment Hours and must offer obligation hours

Flexible RA Capacity Type	Category Designation	Required Bidding Hours (All Hour Ending Times)	Required Bidding Days
January - April			
October – December			
Base Ramping	Category 1	05:00am to 10:00pm (HE6-HE22)	All days
Peak Ramping	Category 2	3:00pm to 8:00pm (HE16-HE20)	All days
Super-Peak Ramping	Category 3	3:00pm to 8:00pm (HE16-HE20)	Non-Holiday Weekdays*
May – September			
Base Ramping	Category 1	05:00am to 10:00pm (HE6-HE22)	All days
Peak Ramping	Category 2	3:00pm to 8:00pm (HE16-HE20)	All days
Super-Peak Ramping	Category 3	3:00pm to 8:00pm (HE16-HE20)	Non-Holiday Weekdays*

