



Final Availability Assessment Hours

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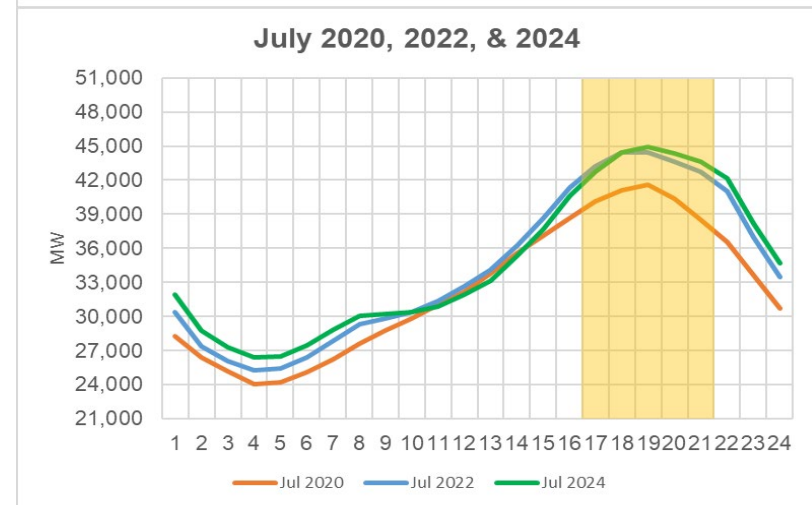
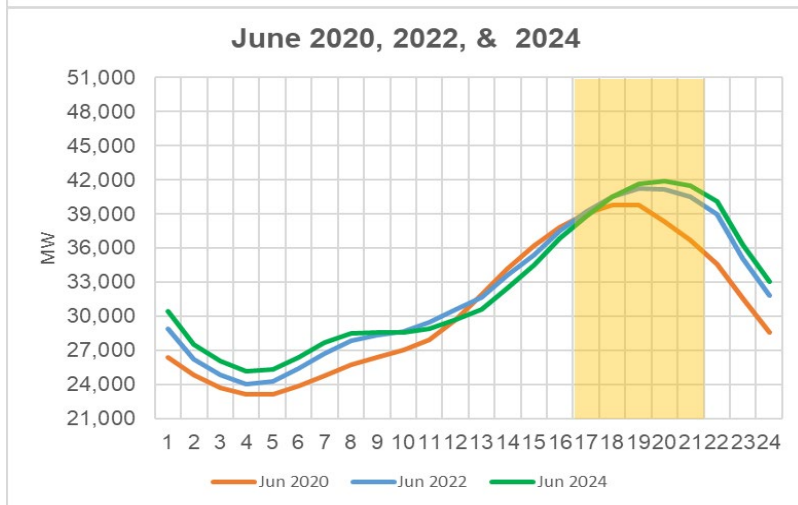
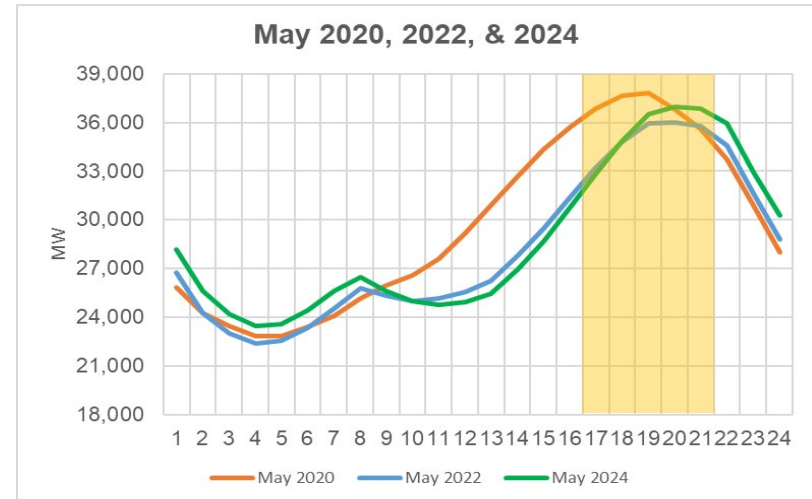
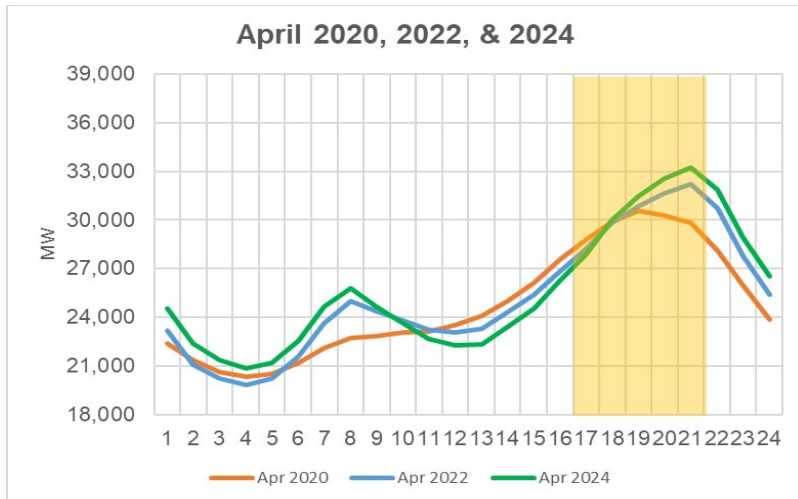
Availability assessment hours: Background and purpose

- 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

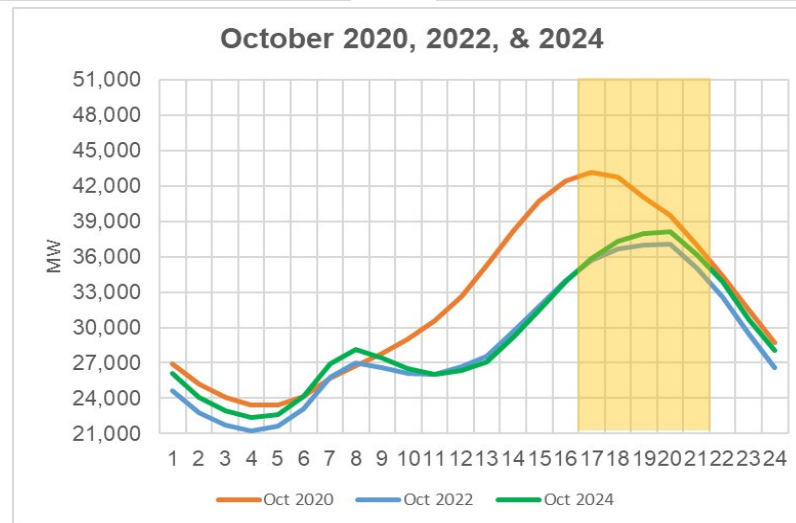
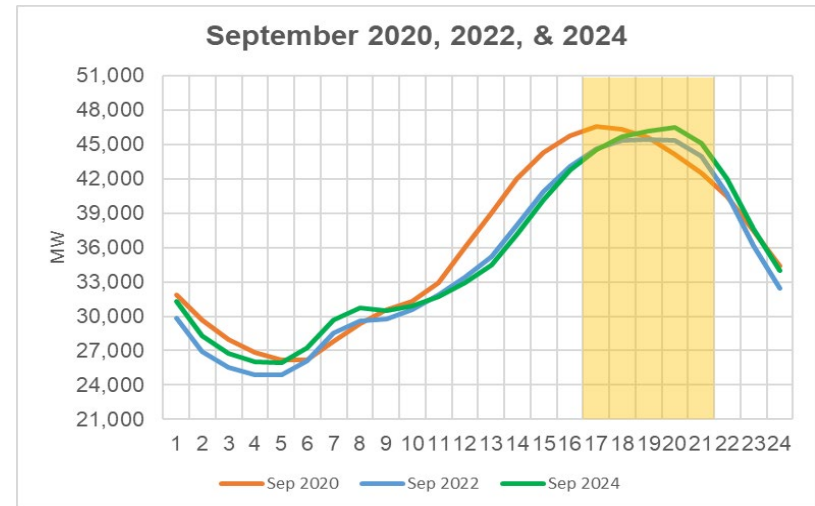
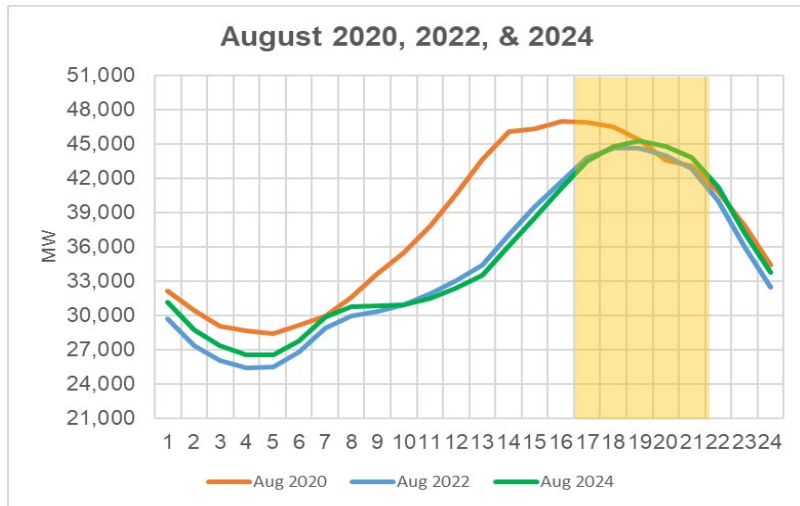
Methodology overview of system/local availability assessment hours

- Used CEC IEPR data described in previous slides to obtain:
 - Hourly Average Load
 - By Hour
 - By Month
 - Years 2020-2024
- Calculated:
 - Top 5% of Load Hours within each month using an hourly load distribution
 - Years 2022 - 2024

Expected load shape evolution: Summer season



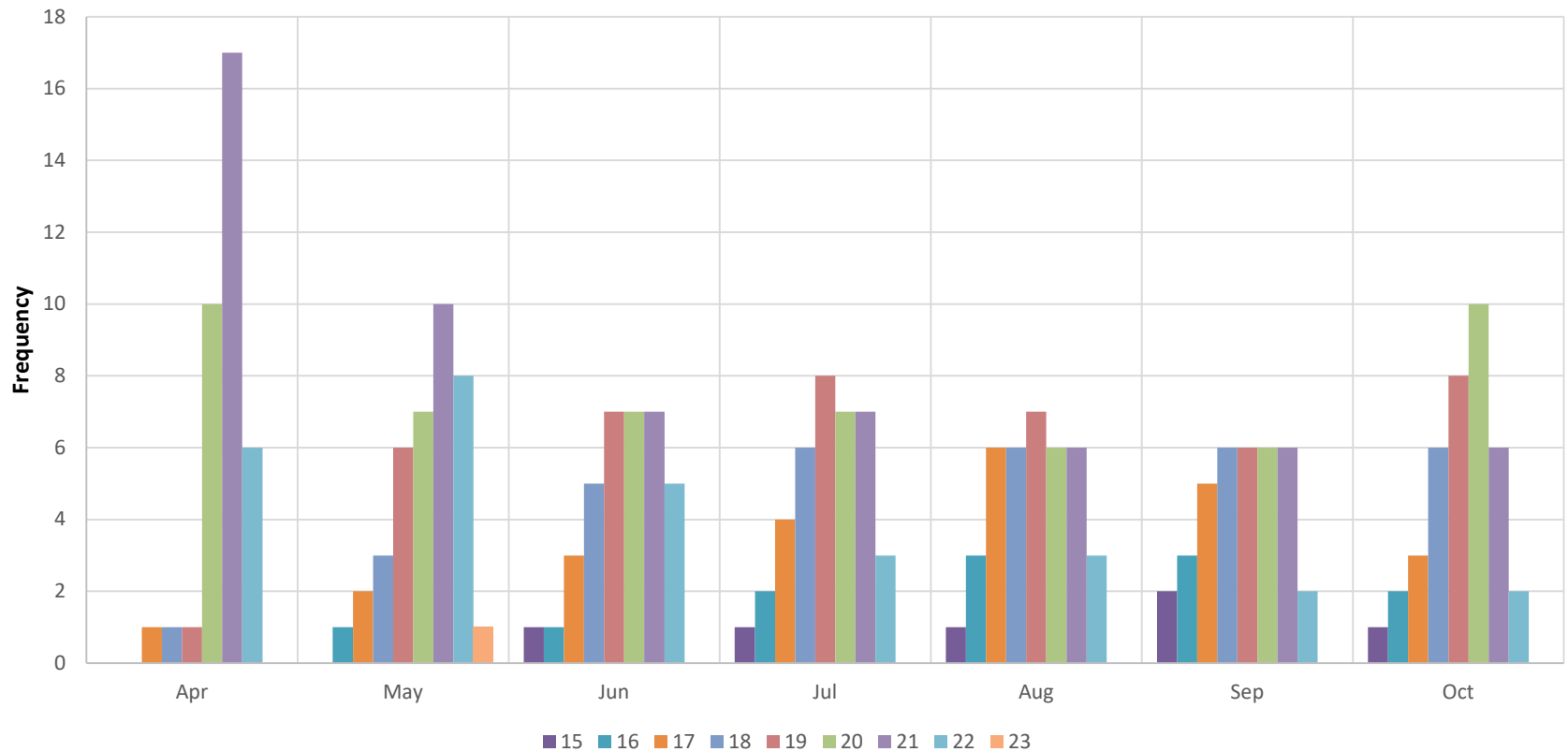
Expected load shape evolution: Summer season



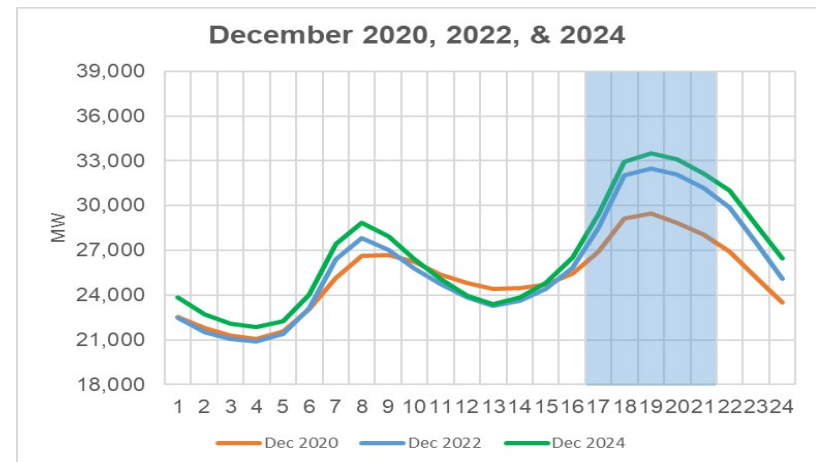
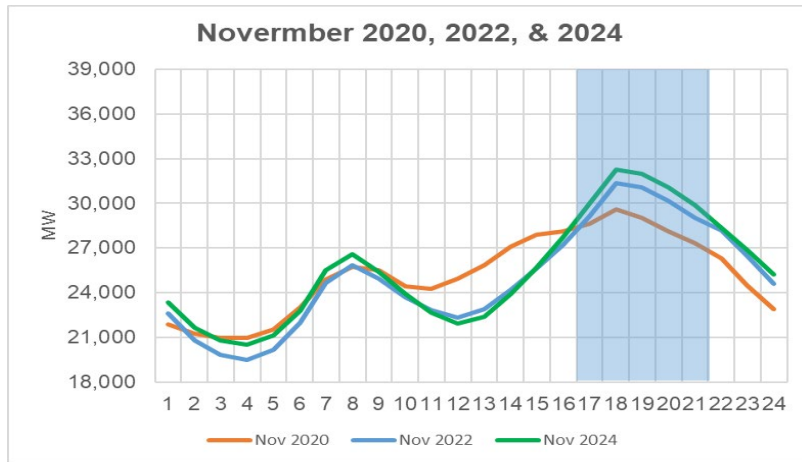
Summer Season

2022 top 5% of load hours (in HE)

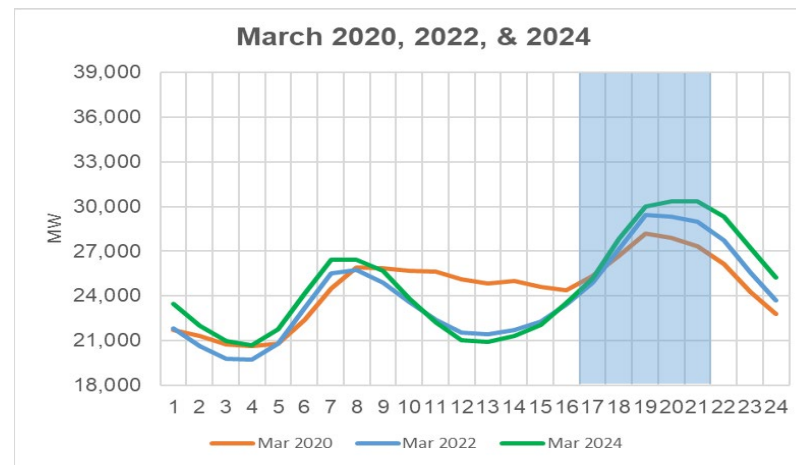
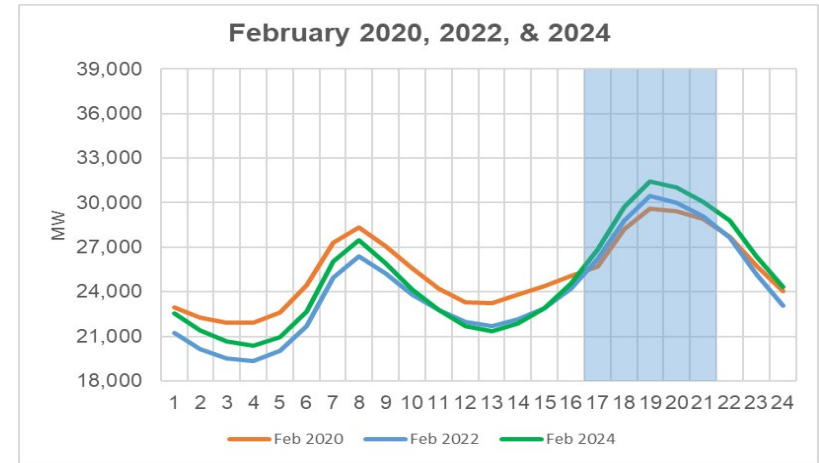
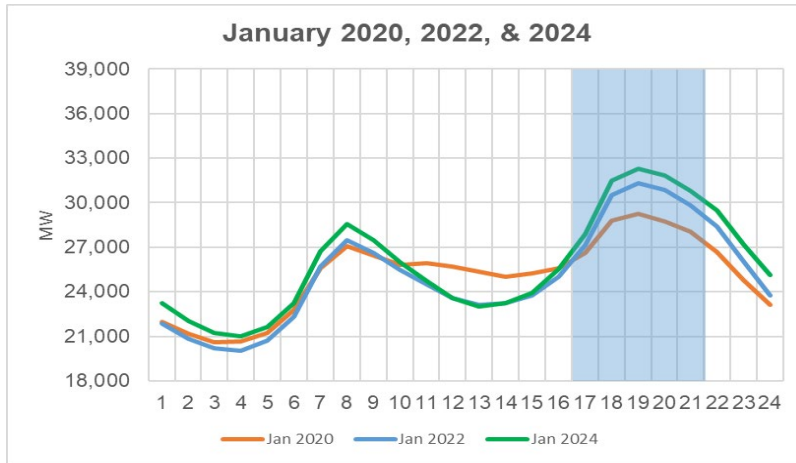
Summer Season: Frequency of Top 5% of Load Hours by Month (in Hour Ending)



Expected load shape evolution: Winter season



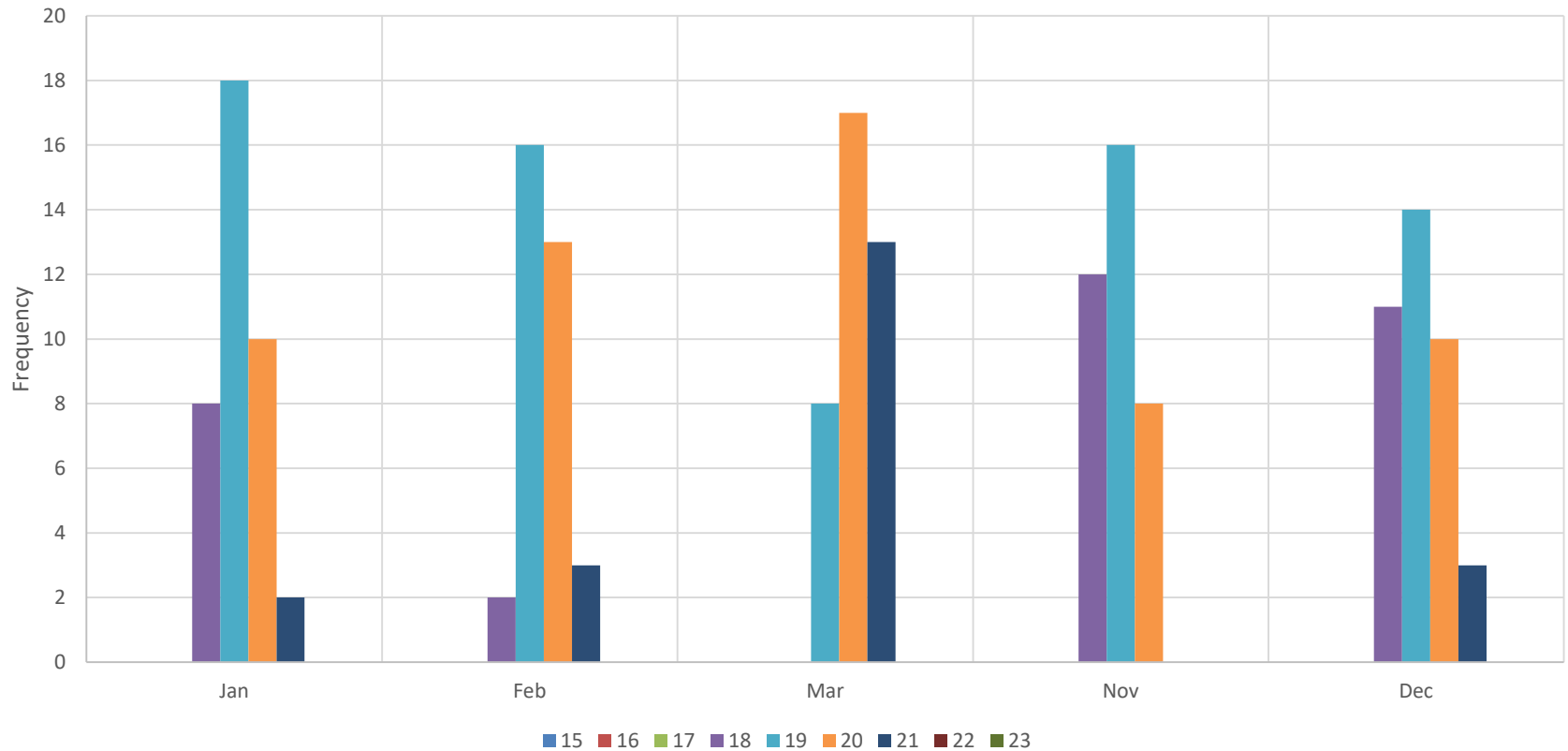
Expected load shape evolution: Winter season



Winter Season

2022 top 5% of load hours (HE)

Winter Season: Frequency of Top 5% of Load Hours by Month (in Hour Ending)



Availability assessment hours final recommendation

Winter Season Final Recommendation

Year	Start	End
2021 (Final)	HE 17	HE 21
2022 (Final)	HE 17	HE 21
2023 (Estimate)	HE 17	HE 21
2024 (Estimate)	HE 17	HE 21

Summer Season Final Recommendation

Year	Start	End
2021 (Final)	HE 17	HE 21
2022 (Final)	HE 17	HE 21
2023 (Estimate)	HE 17	HE 21
2024 (Estimate)	HE 17	HE 21

Reliability Requirements; Section 7 – No BPM Updates Needed

2022 System and Local Resource Adequacy Availability Assessment Hours

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

Summer: April 1 - October 31

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

Winter: November 1 - March 31

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

2022 Flexible Resource Adequacy Availability Assessment Hours and must offer obligation hours

Flexible RA Capacity Type	Category Designation	Required Bidding Hours	Required Bidding Days
January – February November – December			
Base Ramping	Category 1	5:00am to 10:00pm (HE6-HE22)	All days
Peak Ramping	Category 2	2:00pm to 7:00pm (HE15-HE19)	All days
Super-Peak Ramping	Category 3	2:00pm to 7:00pm (HE15-HE19)	Non-Holiday Weekdays*
March – August			
Base Ramping	Category 1	5:00am to 10:00pm (HE6-HE22)	All days
Peak Ramping	Category 2	4:00pm to 9:00pm (HE17-HE21)	All days
Super-Peak Ramping	Category 3	4:00pm to 9:00pm (HE17-HE21)	Non-Holiday Weekdays*
September – October			
Base Ramping	Category 1	5:00am 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*