



California ISO

2019 & 23 Draft LCR Study Results Big Creek/Ventura Local Area

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April 9, 2018

Big Creek/Ventura Area Loads & Resources

Load

Year	Bus Load (MW)	Pump Load (MW)	Transmission Losses (MW)	Total (MW)
2019	4704	379	79	5162
2023	4708	379	82	5169

- The above load values include:
 - Saugus substation load which is located in the BCV LCA
 - The impact of baseline BTM PV, AAPV and AAEE included in the CEC managed forecast

Available Generation

Year	QF (MW)	Muni (MW)	Pref. Res. & ES	Market (MW)	Max. Qualifying Capacity (MW)
2019	64	118	104	4587	4873
2023	64	118	108	3070	3360

- Available generation values for 2019 includes Ellwood and Ormond
- Available generation values for 2023 includes Ellwood (or equivalent replacement)

Key Resource Assumptions

- All Mandalay units unavailable since they were retired as of 02/06/2018.
- NRG has announced Ormond Beach and Ellwood will be retired by the end of the year. The units were used as needed in the 2019 case. A generic resource located near Goleta was used in the 2023 case.
- The Las Flores Canyon Cogeneration Facility (EXGEN) is OOS since 2015 due to a pipeline rupture and is assumed to be unavailable in both cases.

New Transmission Projects Included

- Big Creek Corridor Rating Increase Project (ISD - 12/31/2018) was modeled in both 2019 and 2023 cases.
- Pardee-Moorpark No. 4 230 kV Transmission Circuit (ISD – 12/31/2020) was modeled in the 2023 case.

Rector Sub-Area

Category B

LCR need is satisfied by the need in the larger Vestal sub-area.

Category C

LCR need is satisfied by the need in the larger Vestal sub-area.

Vestal Sub-Area

Category B

Contingency: Magunden-Vestal #1 or #2 230 kV line with Eastwood out of service.

Limiting component: Remaining Magunden-Vestal 230 kV line

or

Contingency: Magunden-Springville #1 230 kV line with Eastwood out of service.

Limiting component: Magunden-Springville #2 230 kV line.

2019 LCR need: 621 MW

2023 LCR need: 621 MW

Category C

Same as above.

Santa Clara Sub-Area

Category C

Contingency: Pardee-Santa Clara 230 kV line followed by
Moorpark-Santa Clara #1 and #2 230 kV DCTL.

Limiting component: Voltage collapse

2019 LCR need: 237 MW.

2023 LCR need: 287 MW.

- Ellwood will be needed to meet the LCR (until new resources become available)
- Approximately 90 MW of new capacity will be needed by 2023

Category B

No requirement.

Moorpark Sub-Area

Category C

Contingency: Pardee-Moorpark #1 230 kV line followed by
Pardee-Moorpark #2 and #3 230 kV DCTL.

Limiting component: Voltage collapse

2019 LCR need: 433 MW.

2023 LCR need: No requirement.

- One unit of Ormond Beach will be needed to meet the LCR (until Moorpark-Pardee #4 transmission project is in service).

Category B

No requirement.

Big Creek/Ventura Overall

Category C

Contingency: Sylmar-Pardee #1 or #2 230 kV line followed by Lugo-Victorville 500 kV or vice versa.

Limiting component: Remaining Sylmar-Pardee 230 kV line.

2019 LCR need: 2,614 MW.

2023 LCR need: 2,690 MW.

Category B

Contingency: Sylmar-Pardee #1 or #2 230 kV line with Ormond #2 (2018 case) or Pastoria combined cycle module (2023 case) out of service.

Limiting component: Remaining Sylmar-Pardee 230 kV line.

2019 LCR need: 2,333 MW.

2023 LCR need: 2,212 MW.

Changes

Since last year:

- 1) Updated NQC
- 2) 2019 load forecast is up by 332 MW vs. 2018. Overall LCR is up by 293 MW.
- 3) 2023 load forecast is up by 113 MW vs. 2022. Overall LCR is up by 93 MW.

THANK YOU

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