Texas Winter Outage

IDAHO POWER®
An IDACORP Company

ercot

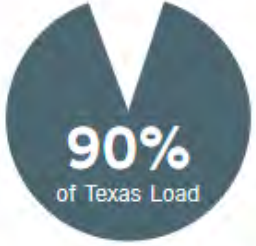
Your Power. Our Promise.

Quick Facts

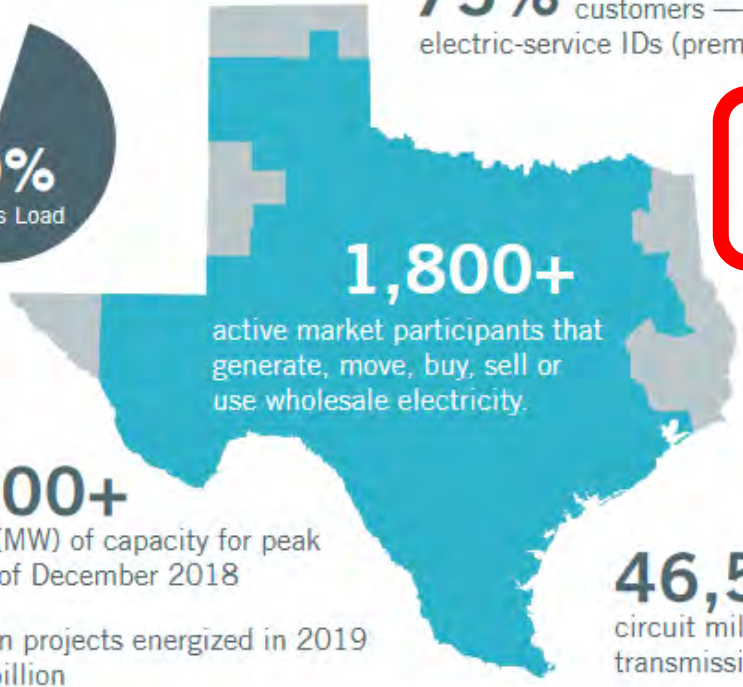
The Texas Legislature restructured the Texas electric market in 1999 by unbundling the investor-owned utilities and creating retail customer choice in those areas, and assigned ERCOT four primary responsibilities:

- System reliability – planning and operations
- Wholesale market settlement for electricity production and delivery
- Retail switching process for customer choice
- Open access to transmission

ERCOT Region



75% of load is competitive-choice customers — nearly 8 million electric-service IDs (premises)



650+ generating units, excluding PUNs

1,800+ active market participants that generate, move, buy, sell or use wholesale electricity.

More than **25** million consumers in the ERCOT region

78,000+ megawatts (MW) of capacity for peak demand as of December 2018

Transmission projects energized in 2019 total $1.3 billion

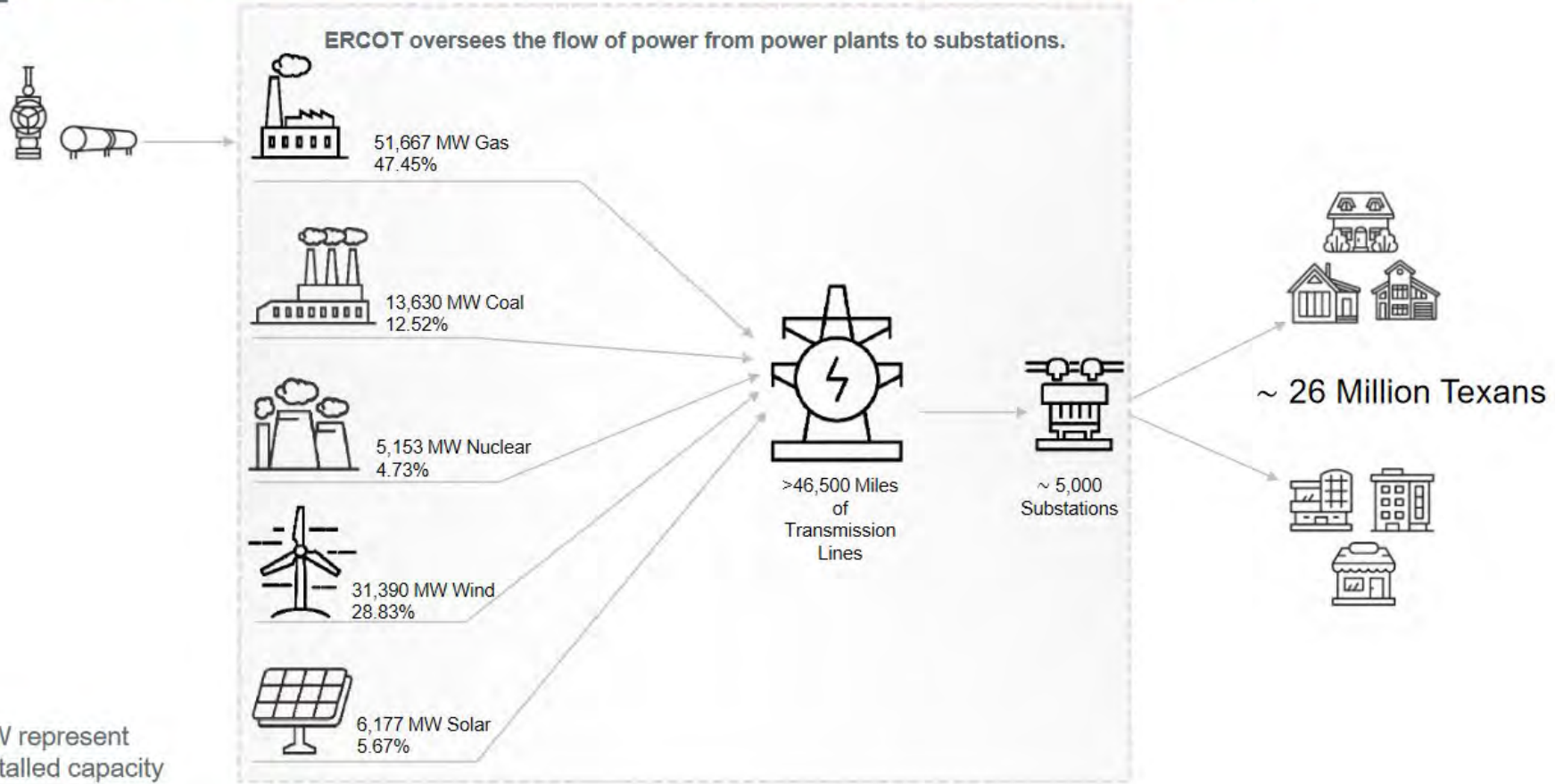
46,500+ circuit miles of high-voltage transmission

74,820 MW Record peak demand (August 12, 2019)

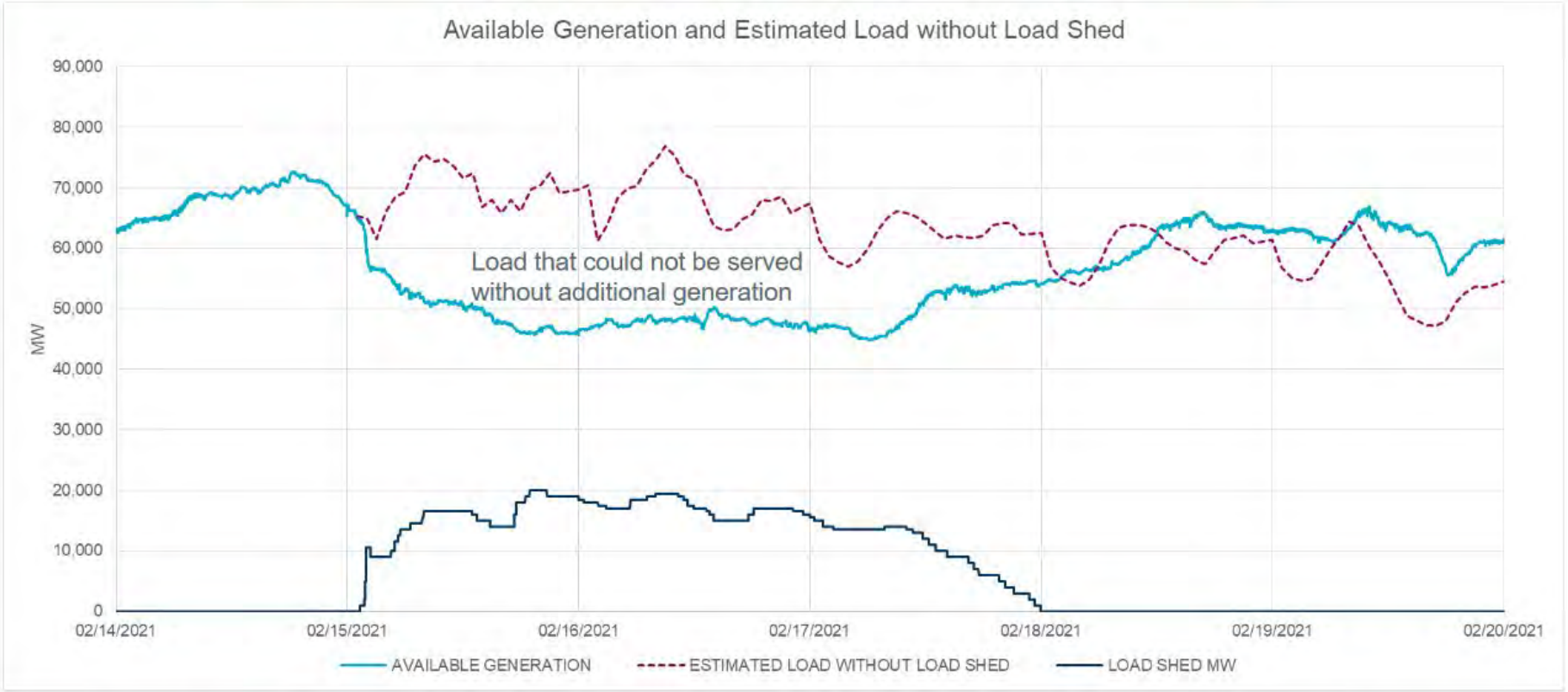
71,930 MW Weekend peak demand record (August 11, 2019)

1 MW of electricity can power about 200 Texas homes during periods of peak demand.

Electric Generation, Transmission & Distribution Overview

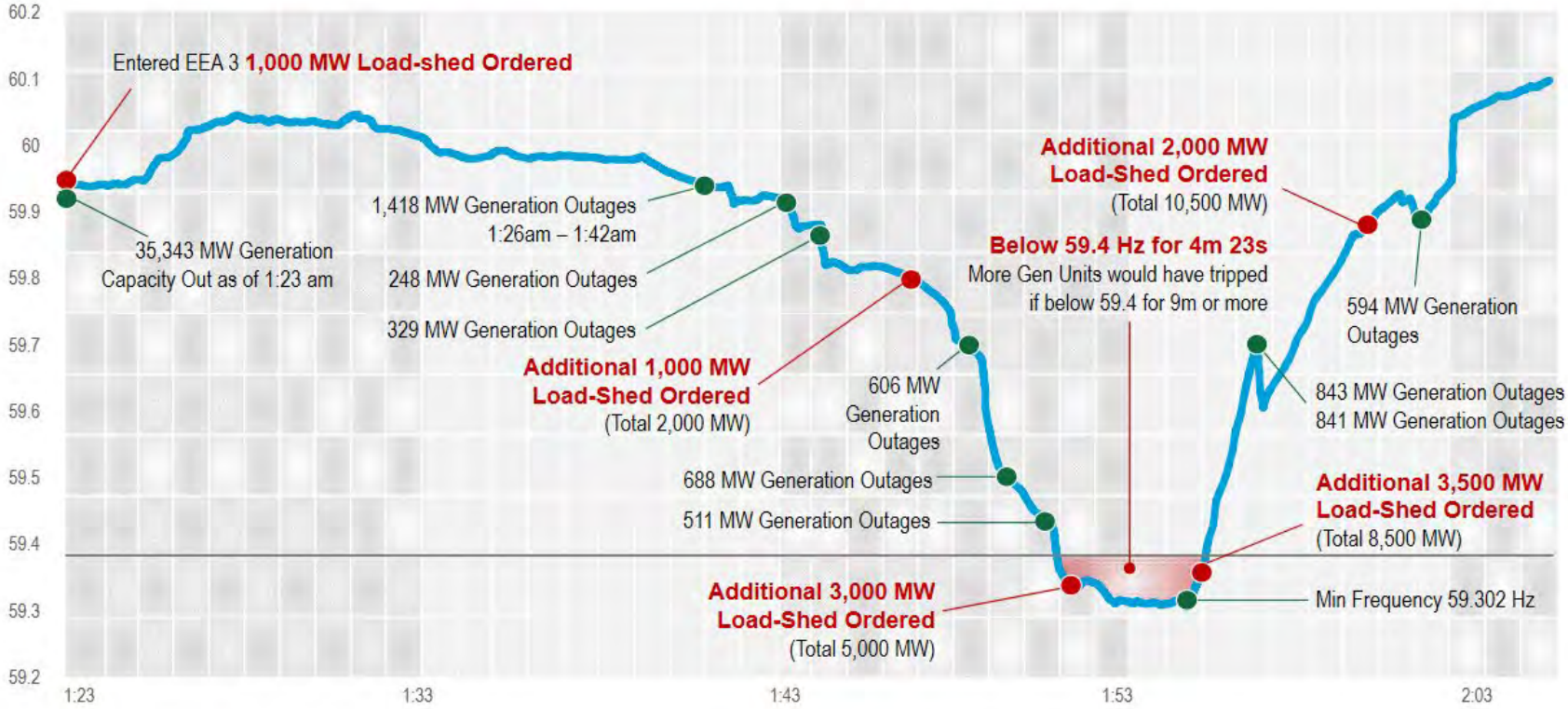


Available Generation and Estimated Load Without Load Shed

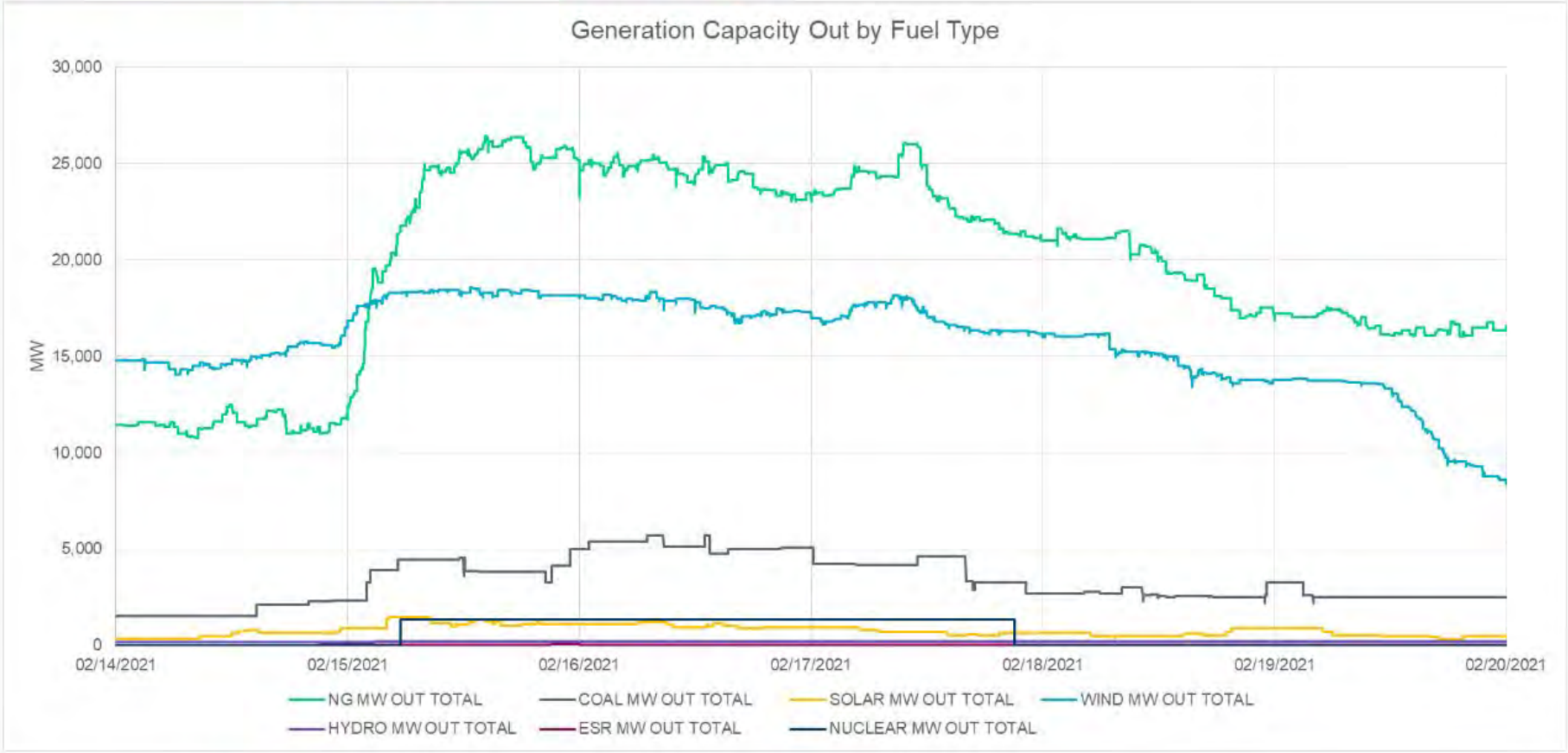


Available Generation shown is the total HSL of Online Resources, including Quick Starts in OFFQS. The total uses the current MW for Resources in Start-up, Shut-Down, and ONTEST.

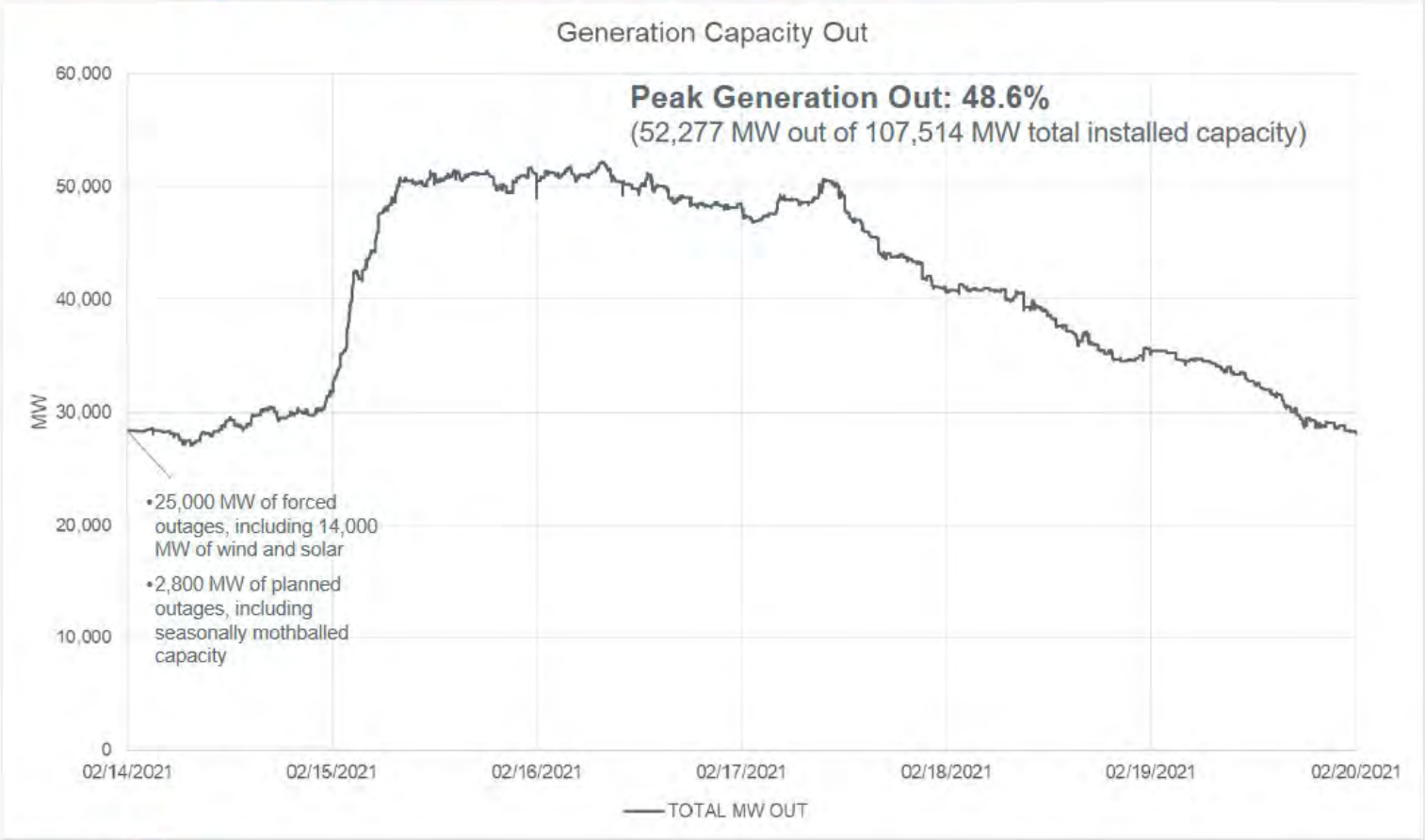
Rapid Decrease in Generation Causes Frequency Drop



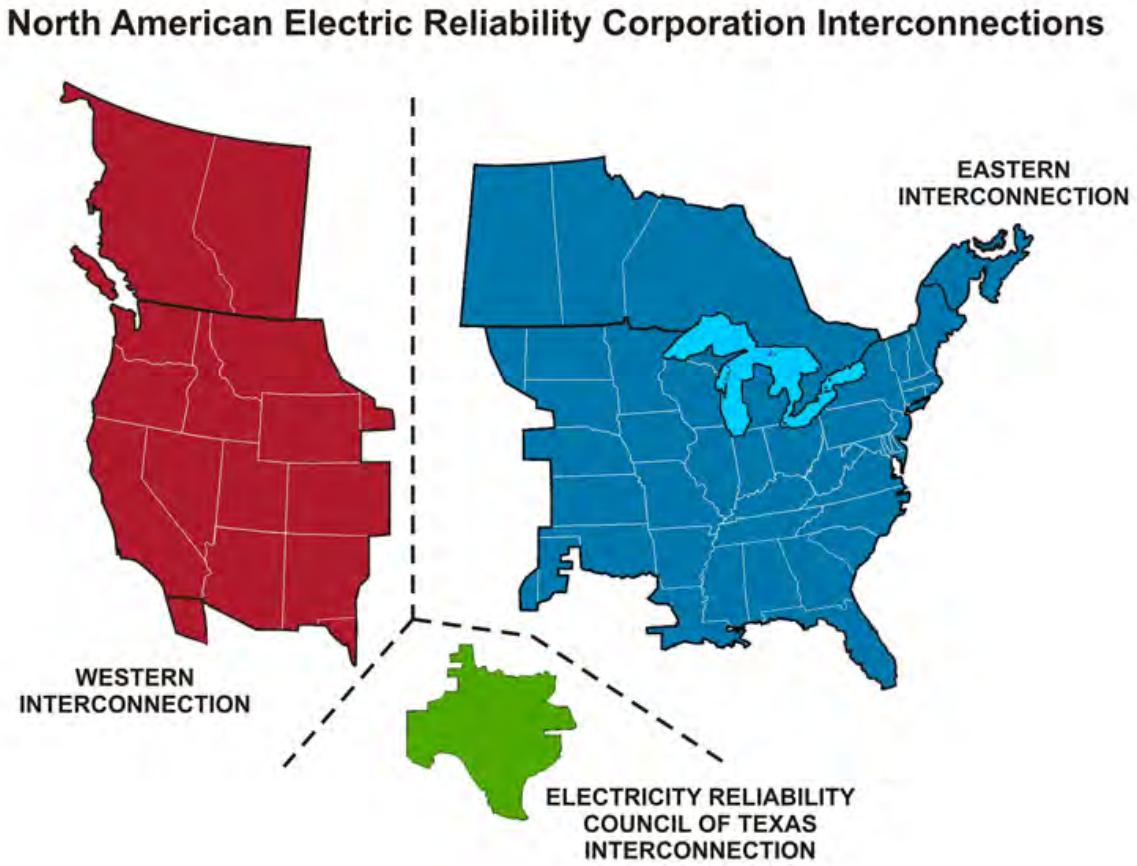
Generation Capacity Out by Fuel Type

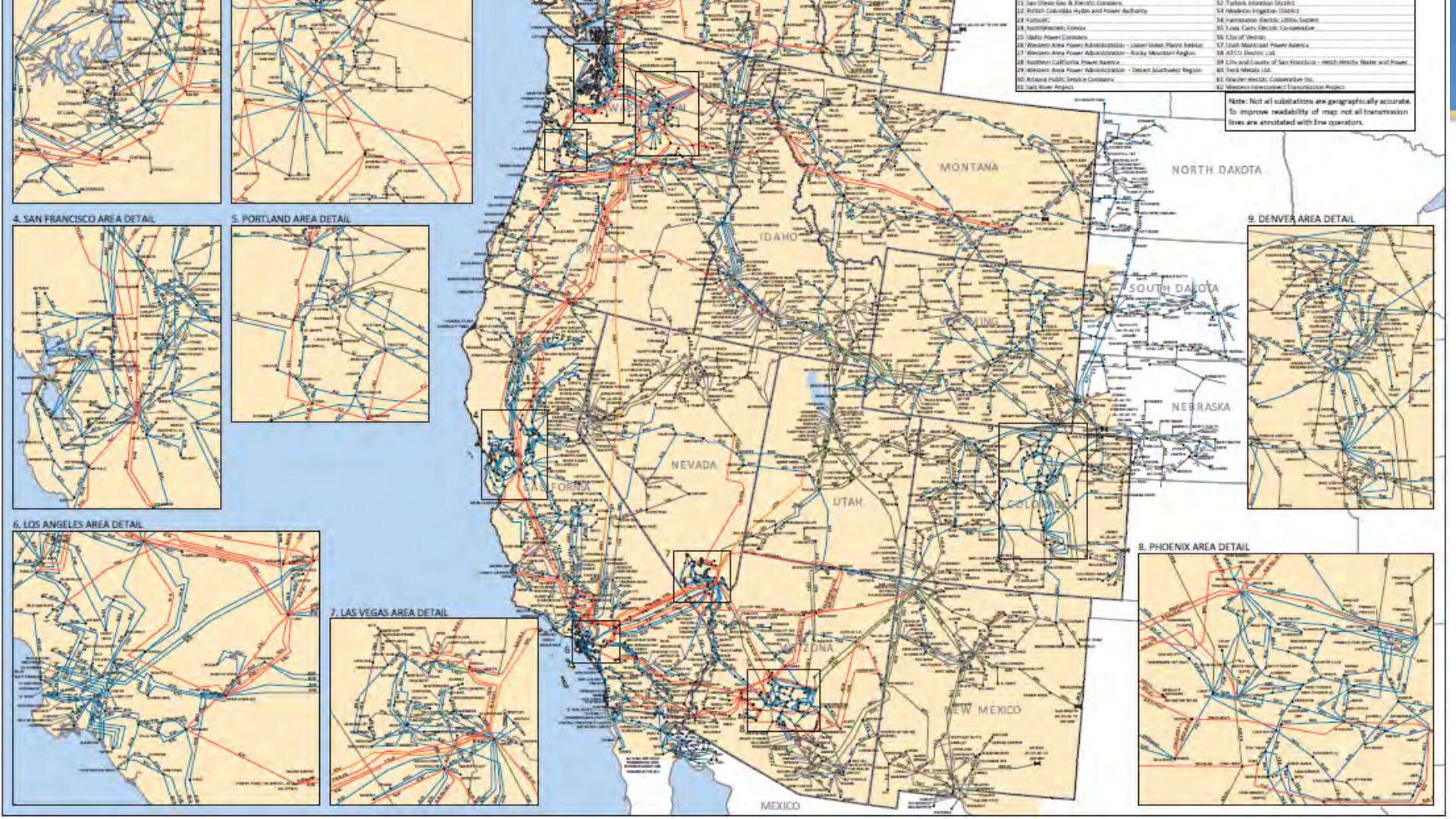


Generation Capacity Out February 14 – 19, 2021

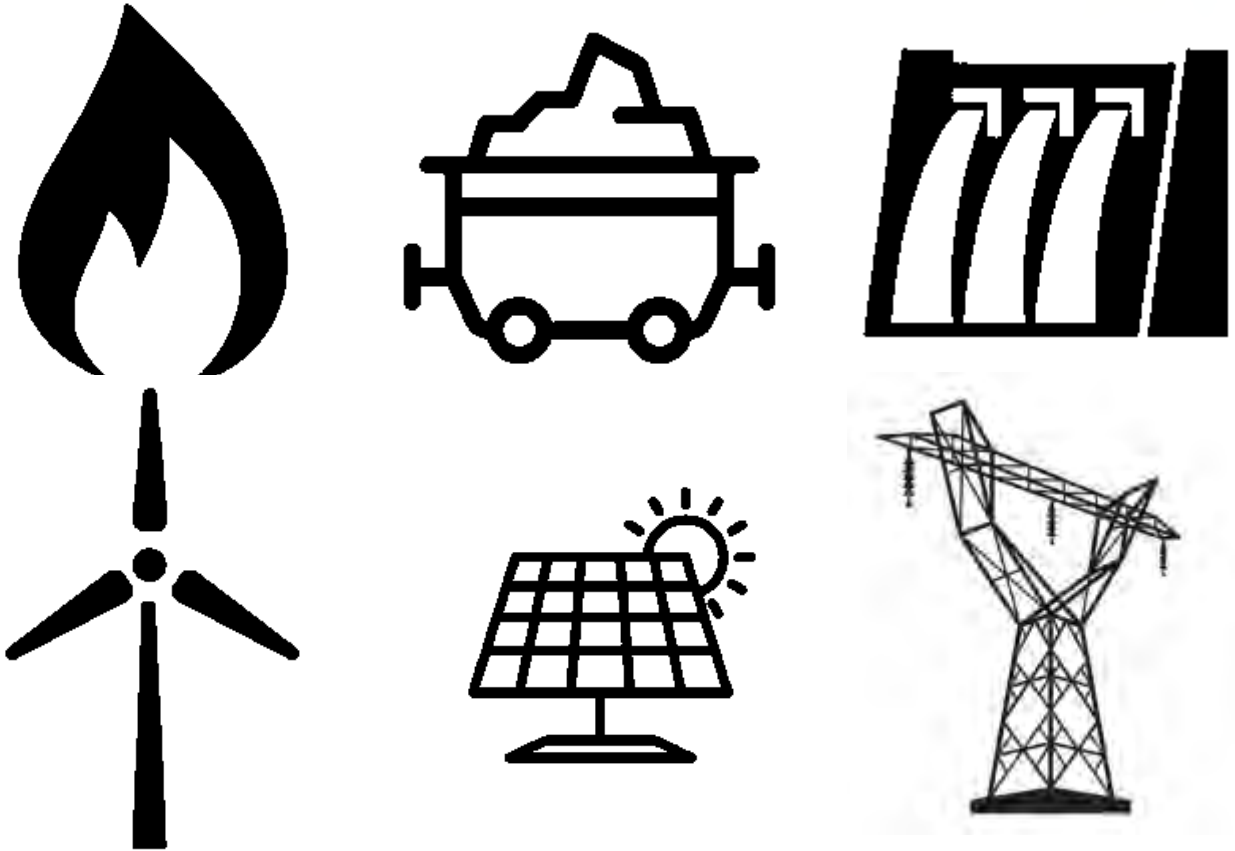


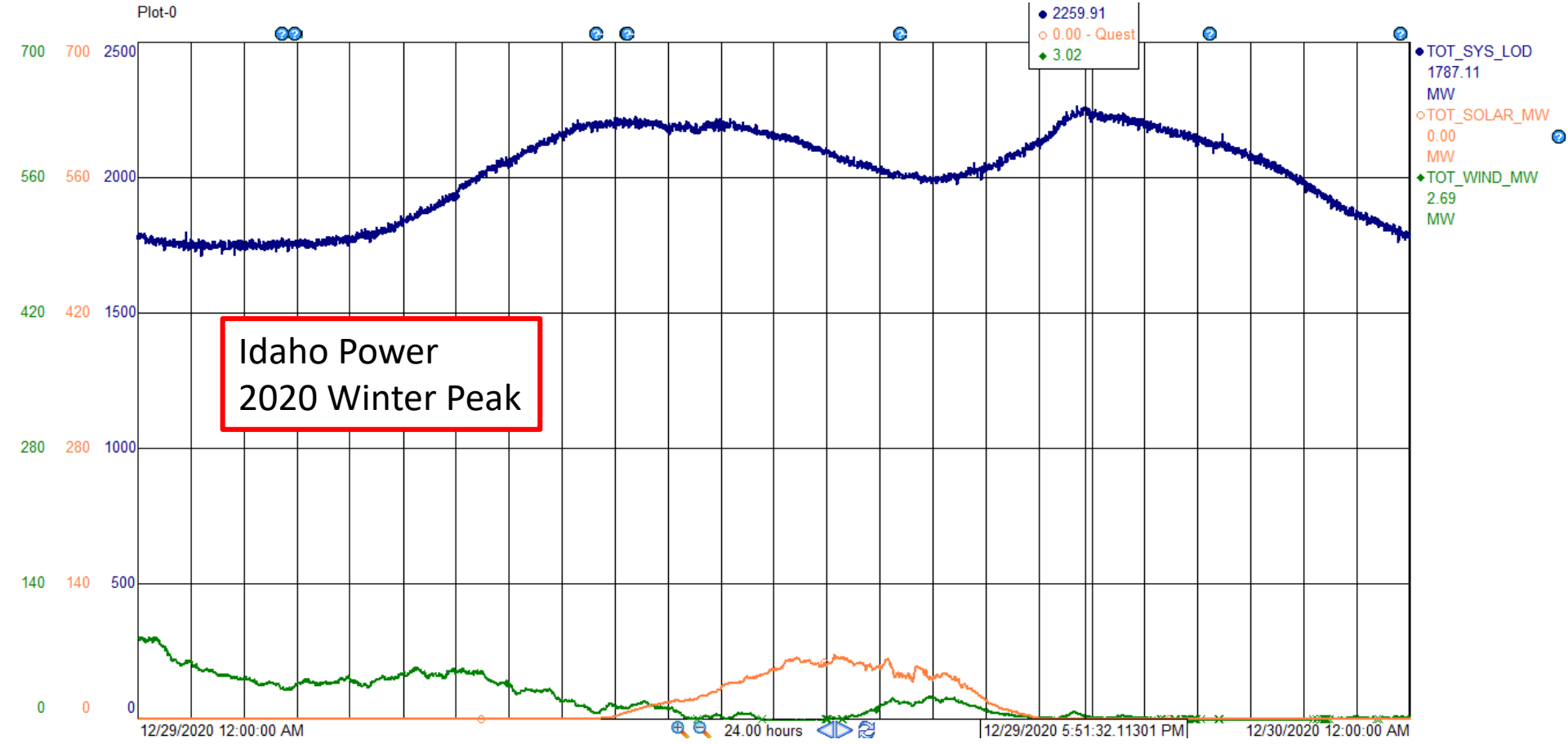
Isolation


North American Electric Reliability Corporation Interconnections
EASTERN
INTERCONNECTION
WESTERN
INTERCONNECTION
ELECTRICITY RELIABILITY
COUNCIL OF TEXAS
INTERCONNECTION


4. SAN FRANCISCO AREA DETAIL
5. PORTLAND AREA DETAIL
6. LOS ANGELES AREA DETAIL
7. LAS VEGAS AREA DETAIL
8. PHOENIX AREA DETAIL
9. DENVER AREA DETAIL
WASHINGTON
OREGON
IDAHO
MONTANA
NORTH DAKOTA
SOUTH DAKOTA
WYOMING
NEBRASKA
NEVADA
UTAH
COLORADO
ARIZONA
NEW MEXICO
MEXICO
1 San Diego Gas & Electric Company
2 British Columbia Hydro and Power Authority
3 Avista Corp.
4 NorthWestern Energy
5 Idaho Power Company
6 Western Area Power Administration - Upper Great Plains Region
7 Western Area Power Administration - Rocky Mountain Region
8 Northern California Power Agency
9 Western Area Power Administration - Desert Southwest Region
10 Arizona Public Service Company
11 Salt River Project
12 Turlock Irrigation District
13 Modesto Irrigation District
14 Farmington Electric Utility System
15 Lost Cany Electric Co-operative
16 City of Vernon
17 Utah Municipal Power Agency
18 ATCO Electric Ltd.
19 City and County of San Francisco - Hetch Hetchy Water and Power
20 Teck Metals Ltd.
21 Glacier Electric Cooperative Inc.
22 Western Interconnect Transmission Project
Note: Not all substations are geographically accurate. To improve readability of map not all transmission lines are annotated with line operators.

Idaho Power's Resources

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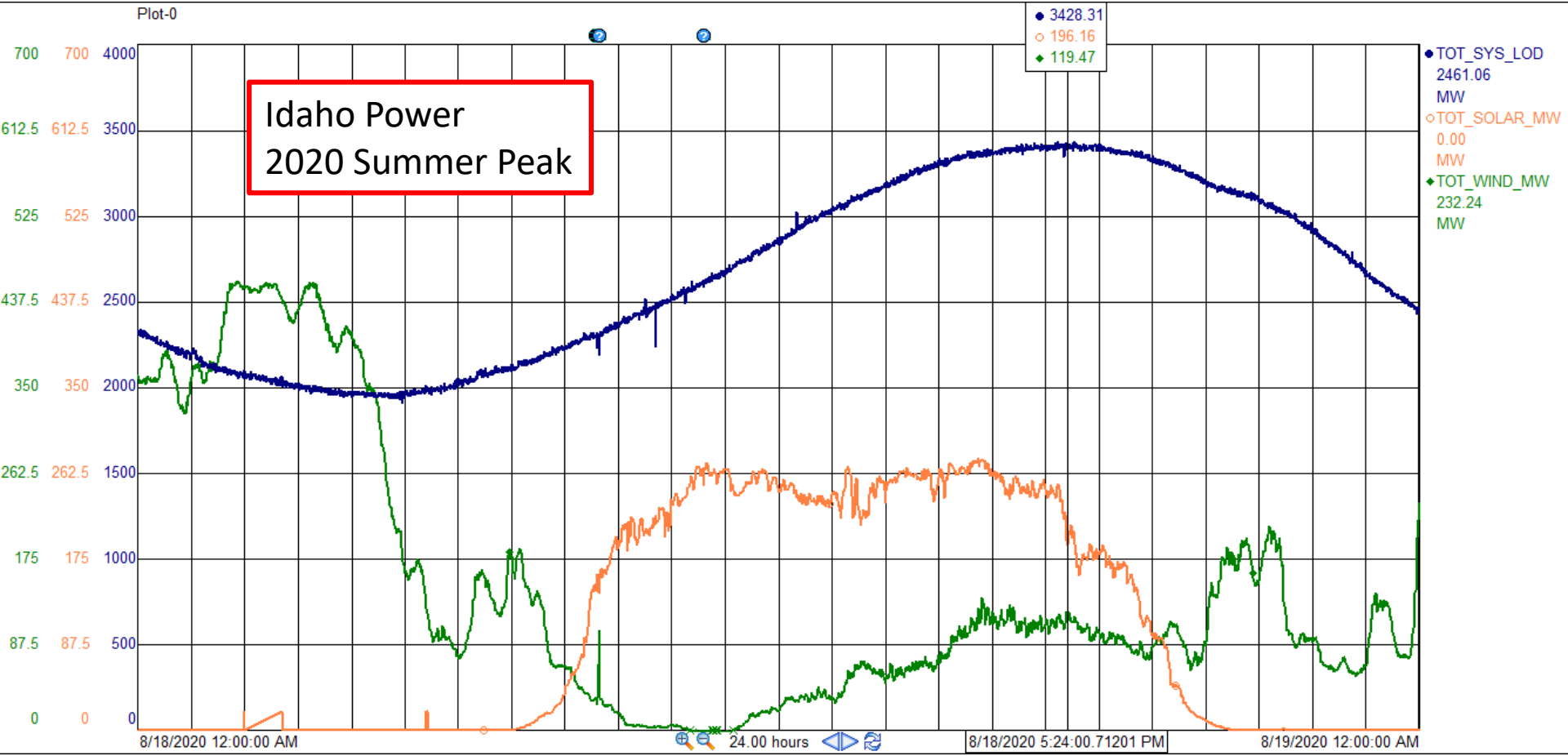
0.00 - Quest
3.02
TOT_SYS_LOD
1787.11
MW
TOT_SOLAR_MW
0.00
MW
TOT_WIND_MW
2.69
MW
700
700
2500
560
560
2000
420
420
1500
280
280
1000
140
140
500
0
0
0
Idaho Power
2020 Winter Peak
12/29/2020 12:00:00 AM
24.00 hours
12/29/2020 5:51:32.11301 PM
12/30/2020 12:00:00 AM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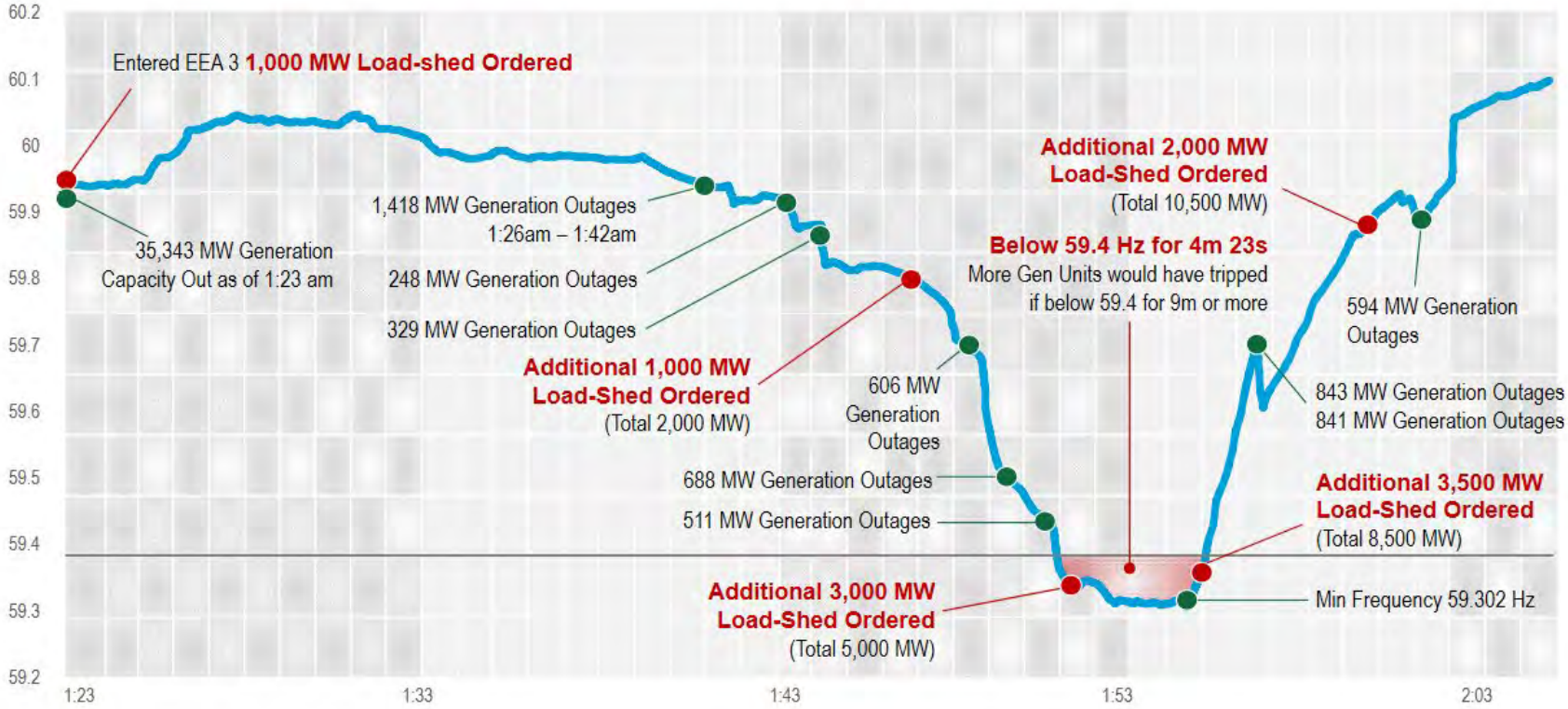
196.16
119.47
TOT_SYS_LOD
2461.06
MW
TOT_SOLAR_MW
0.00
MW
TOT_WIND_MW
232.24
MW
Idaho Power
2020 Summer Peak
700 700 4000
612.5 612.5 3500
525 525 3000
437.5 437.5 2500
350 350 2000
262.5 262.5 1500
175 175 1000
87.5 87.5 500
0 0 0
8/18/2020 12:00:00 AM
24.00 hours
8/18/2020 5:24:00.71201 PM
8/19/2020 12:00:00 AM

Rapid Decrease in Generation Causes Frequency Drop



Idaho Power
Emergency Preparation

- Energy Emergency Alerts (EEA1, EEA2, EEA3)
- WECC under frequency protections
- Rotating outage preparation

Market Design & Deregulation

- Texas energy market design
  - Who are the winners?
  - Who are the losers?
- Who oversees grid reliability?

Clean and Reliable

WE KEEP THE LIGHTS ON

99.96%

OF THE TIME

Clean and Affordable

OUR PRICES ARE MORE THAN

20% BELOW

THE NATIONAL AVERAGE

Clean today. **Cleaner tomorrow.**®

We are continuing our path away from coal.

The proposed Boardman to Hemingway transmission line should help move clean energy.

We’re investing in solar power.