

# Memorandum

**To:** ISO Board of Governors  
**From:** Steve Berberich, President and Chief Executive Officer  
**Date:** September 19, 2017  
**Re:** CEO report

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*This memorandum does not require Board action.*

## OVERALL SYSTEM CONDITIONS

There was a significant heat wave in the region the week of August 28, 2017 driving very high system loads across the ISO. On Friday, September 1, the peak load of the year of 50,116 MW occurred. This was only 154 MW less than the all-time peak set on July 24, 2006 and loads for that entire week were far higher than any loads since the middle of the last decade. On Friday, September 2, to help manage the high forecast loads, the ISO issued a Restricted Maintenance Operations notice from Monday, August 28 through Sunday, September 3 and a Flex Alert for Tuesday, August 29 and Friday, September 1 to encourage conservation.

During the heat wave, the operators had to contend with multiple fires as well. The La Tuna Fire in the Sunland/Pasadena area caused two SCE 230kV lines to relay and LADWP to evacuate their control room. Both lines were returned to service later in the day and LADWP returned to their main control room the next day.

The Helena fire in Humboldt caused two PG&E lines to relay (one 115kV and one 60kV line). Both lines remain out of service for repair.

## SOLAR ECLIPSE

The long planned for solar eclipse occurred on August 21. As expected, there was a significant decline in solar production starting at 9:11 a.m. and reaching a trough at 10:25 p.m. with solar declining 3,547 MW in total. Solar output climbed from the trough at 77 MW/minute until 11:17 a.m. when it flattened out and then continued a climb to 9,046 MW by 12:15 p.m. The aggregate loss of generation was not as much as we expected, but the ramp rates tracked closely with our forecasts.

The long-term planning to forecast the change, prepare the market, procure additional reserves and collaborate with the utilities, CPUC, CEC were all critical to riding through the eclipse with no reliability issues. We offer a special thanks to all who pitched in to give the sun a break for a few hours while we experienced the loss of energy from California's large solar fleet.

## **CORPORATE ROTATION TRAINEES**

A few years ago, the ISO implemented a Corporate Rotation Program aimed at recruiting undergraduate and graduate students early in their careers to rotate through multiple divisions of the company to obtain an extensive understanding of the ISO's operations and then be placed in the organization for their long-term careers. This will increase the ISO's diversity long-term as well as contribute to having staff in all phases of their careers. We are now in our second round of program participants including: Emily Hughes, Sacramento State University BS in Electrical and Electronic Engineering – Power Systems; Lindsey Larson, Washington State University BS in Electrical Engineering Power Track; Danielle Tavel, Rensselaer Polytechnic Institute, New York BS in Electrical Engineering – Power Systems; Lauren Carr, UC Davis BS in Economics and History; Brenda Corona, UC Riverside BS in Environmental Science and Environmental Engineering.

## **RENEWABLE ENERGY PRODUCTION**

The most recent solar peak of 9,914 MW occurred on June 17, 2017 at 12:12 p.m. The most recent wind generation peak of 4,985 MW was set on May 16, 2017 at 5:26 p.m. We continue to also get significant renewable generation contributions from geothermal, small hydro and other sources contributing to our generation mix.

## **BOARD MEMBER CONFIRMATION**

Congratulations to Governors Ash Bhagwat and Angelina Galiteva on their final confirmation by the California Senate. We are most appreciative of their leadership, service and commitment to the ISO.