



POWER PLANNING IN A CHANGING CLIMATE “2015-THE FUTURE IS NOW”

DECEMBER 3, 2015



FACTS FROM 2015

- **Power Demand**
 - Warm winter, spring & fall - retail revenue very low
 - Hot summer - minimal demand impact (so far)
- **Power Supply**
 - Highest Wholesale Energy Surplus - Q1 2015
 - Record low hydro in July/August
 - Lowest streamflow July/August on record
- **Unique Events**
 - Skagit/Goodell Fire

GOODELL CREEK FIRE - AUGUST 2015



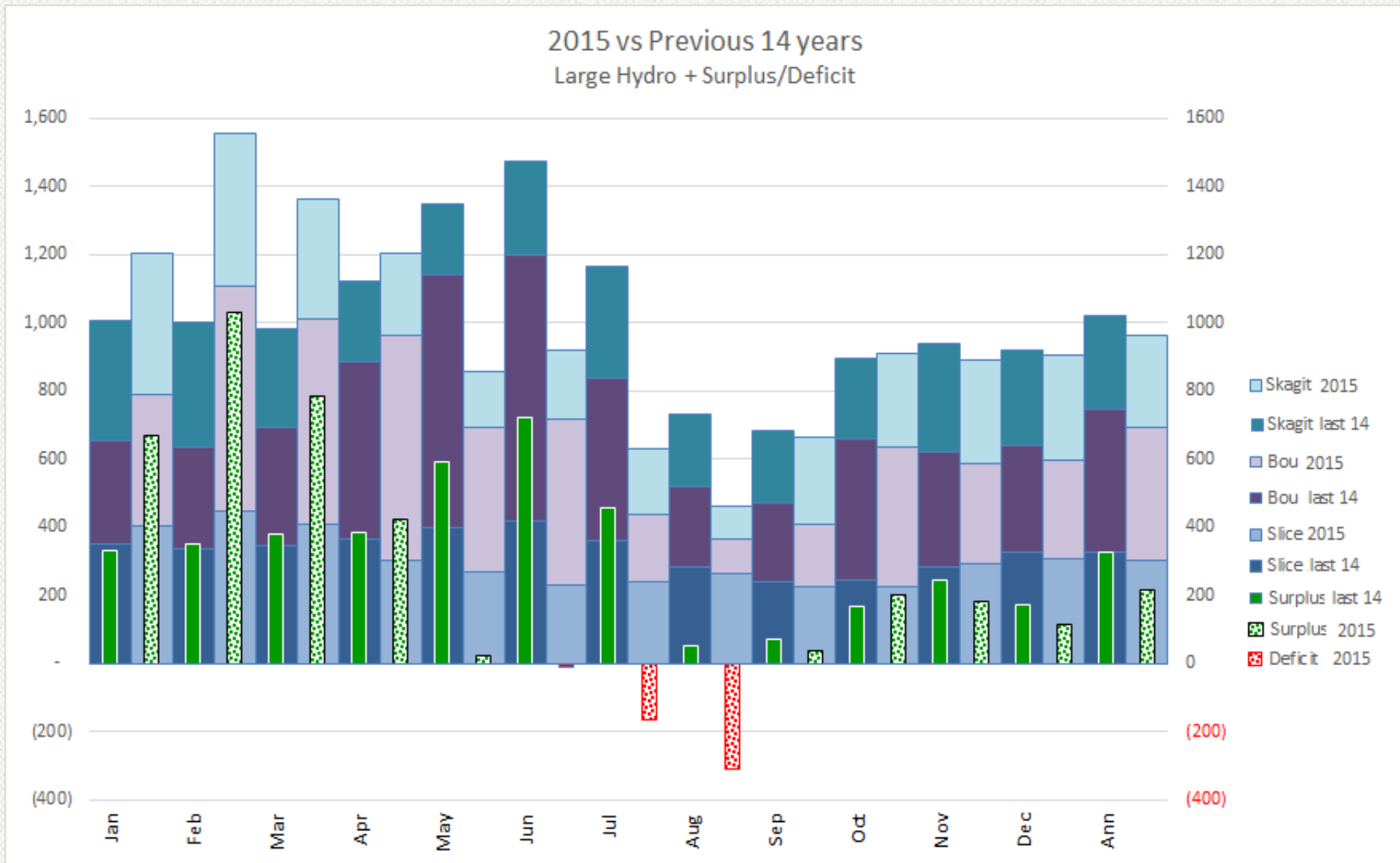
IMPACTS TO SALMON

- Low flows and high temperatures put stress on early returning Chinook and sockeye salmon.
- Regional rivers were at historic low flows this summer due to low snowpack and record hot temperatures.



Low water at the Masonry Pool Reservoir in the upper Cedar Watershed summer of 2015.

2015 VS. PREVIOUS 14 YEARS- HYDRO SUPPLY



POWER PLANNING IN LIGHT OF CLIMATE CHANGE

- 2012 City Council Approved Strategic Plan:
 - Research on Climate Impacts
 - Vulnerability and Adaption Assessment includes:
 - Shoreline Infrastructure - sea level rise, tides
 - Electricity Demand - warmer winters, hotter summers
 - Transmission & Distribution - fires, landslides, floods
 - Hydro Project Operations - less snowpack, more spill
 - Fish Habitat Restoration - higher peak flows, lower summer flows, warmer stream temperatures



CITY LIGHT

OUR VISION

To set the standard—to deliver the best customer service experience of any utility in the nation.

OUR MISSION

Seattle City Light is dedicated to exceeding our customers' expectations in producing and delivering environmentally responsible, safe, low-cost and reliable power.

OUR VALUES

Excellence, Accountability, Trust and Stewardship.

