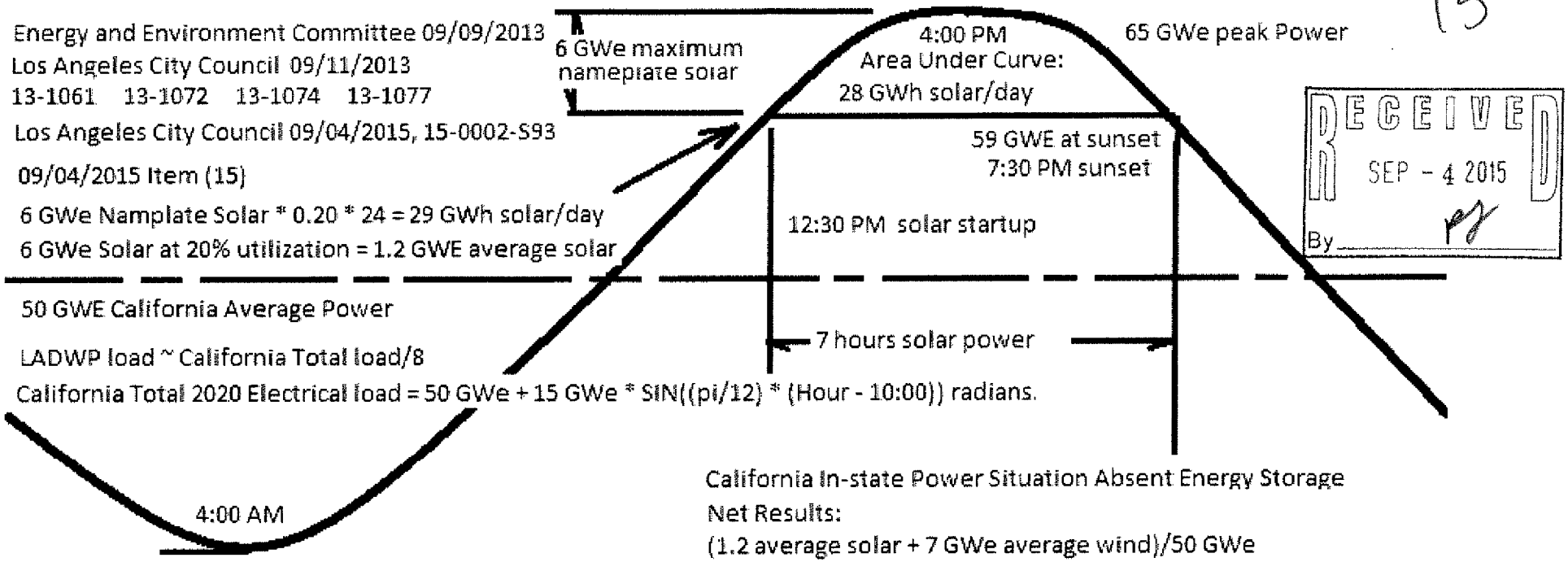
15

Energy and Environment Committee 09/09/2013
Los Angeles City Council 09/11/2013
13-1061 13-1072 13-1074 13-1077
Los Angeles City Council 09/04/2015, 15-0002-S93
09/04/2015 Item (15)



6 GWe Namplate Solar * 0.20 * 24 = 29 GWh solar/day
6 GWe Solar at 20% utilization = 1.2 GWE average solar

LADWP load ~ California Total load/8
California Total 2020 Electrical load = 50 GWe + 15 GWe * SIN((pi/12) * (Hour - 10:00)) radians.

35 GWe Minimum Power
35 GWe maximum nameplate wind
20% wind utilization: 7 GWe average wind

California In-state Power Situation Absent Energy Storage
Net Results:
(1.2 average solar + 7 GWe average wind)/50 GWe
= 0.164, roughly 1/6 of California Power requirement

Both AB 32 and SB 350 will fail absent calling big hydro and atomic power "renewable energy."

09/04/2015

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"Solar Energy Storage by Mixing and Separation of Water and Ammonia," Massive Energy Storage for the Broader USe of Renewable Energy Souces, ECI, www.engconfintl.org, June 23-26, 2013, Newport Beach CA, Poster Number 5.