

Great Park is reportedly capable of powering 3,000 homes per year (see page 2 of 2). SCE and OCPA Joint Rate Comparison, dated 1/25/25, shows typical residence uses 520 KWh per month, or 6.24 MWh per year. 3,000 homes x 6.24 MWh/yr = **18,720 MWh/yr**.

City of Irvine's annual load served by OCPA = **1,515,395 MWh**.<sup>1</sup>  $18,720 / 1,515,395 = 1.2\%$ . Thus, according to OCPA's own numbers, 1.2% of Irvine's annual electric load would be served by Great Park solar.<sup>2</sup>

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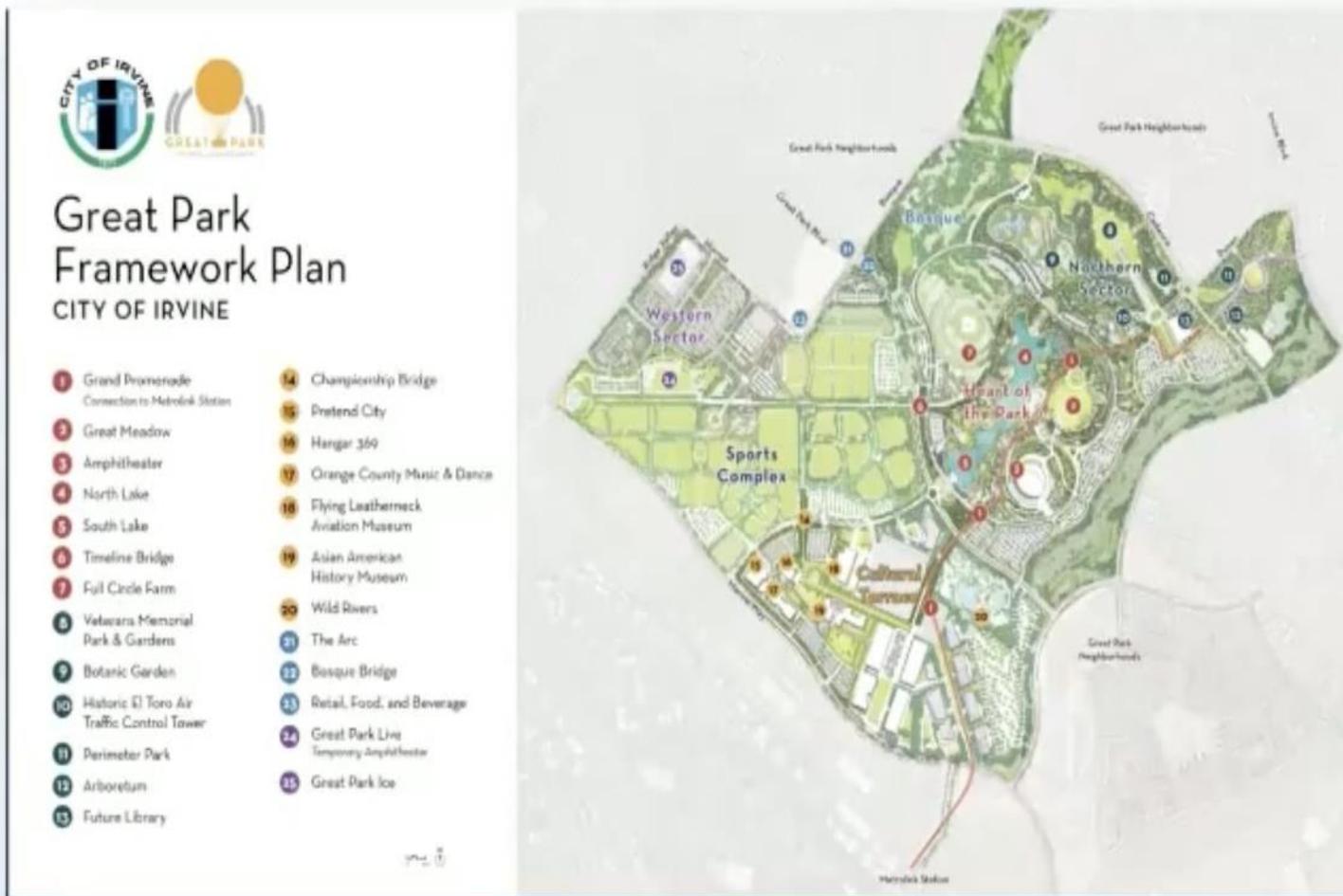
<sup>1</sup> OCPA Staff Report – 7.5, February 10, 2025, Exhibit B, Annual Energy Use by Jurisdiction.

<sup>2</sup> When a realistic capacity factor of 17%, which includes inverter loss for fixed mount solar farm at Irvine's latitude is applied, a 10 MW solar farm at Irvine results in annual production of **14,892 MWh**, enough to theoretically power 2,386 homes per year.  $14,892 / 1,515,395 = 0.98\%$ . Thus, 1% not 1.2% of Irvine's annual load would be served by Great Park solar at a more representative 17% CF for Irvine's latitude and weather. Regardless of using OCPA's 21% capacity factor (bottom of page 2 of 2), or 17% capacity factor, Great Park solar produces ~1% of Irvine's annual electric load that is served by OCPA.

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# Local Generation – Great Park Solar Projects

Over 10 MW of Solar Capacity Potential – Capable of Powering **3,000 Homes\*** Per Year



- City of Irvine and OCPA shared solar potentials at the Great Park
- Rate comparison studies performed
- City of Irvine and OCPA discussions – OCPA Net Energy Metering A (NEMA) Rates for Solar

\*Estimated based on **21% capacity factor** and average CA Household Electricity Consumption from <https://seia.org/whats-in-a-megawatt/>