

**SJCE IRP
July 16, 2018
Clean Energy Community Advisory
Committee**

SJCE IRP Objectives and Metrics

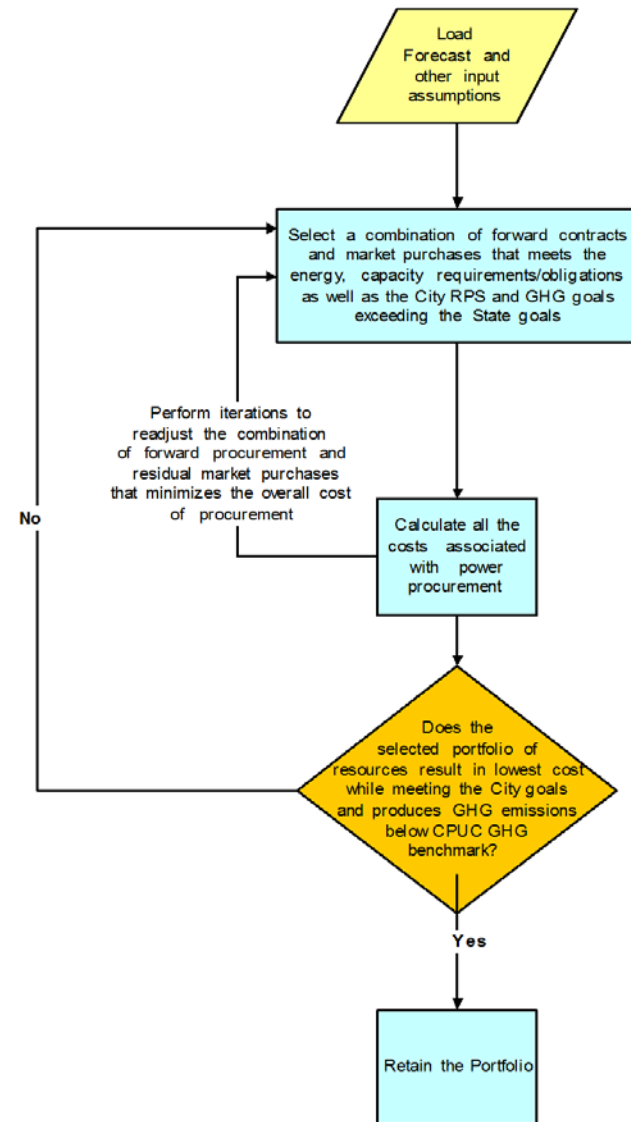
- ❑ SJCE IRP model includes metrics to ensure that the selected resource mix satisfies the City's short and long-term renewable and other goals, and complies with the GHG benchmark. SJCE's objectives include,
 - 10% more renewables than the state RPS requirements in each year of the planning horizon.
 - For example, by 2030, SJCE will have 60% RPS.
 - By 2021 all SJCE customers will have a base power mix that is 100% carbon free.

- ❑ SJCE's metrics include:
 - Percentage of retail load served by RPS-eligible resources
 - Percentage of retail load served by GHG-free resources
 - Annual and Net Present Value (NPV) of portfolio costs

- ❑ SJCE's IRP is primarily prospective until SJCE's completes its' RFP process and additional procurement is authorized by City Council.

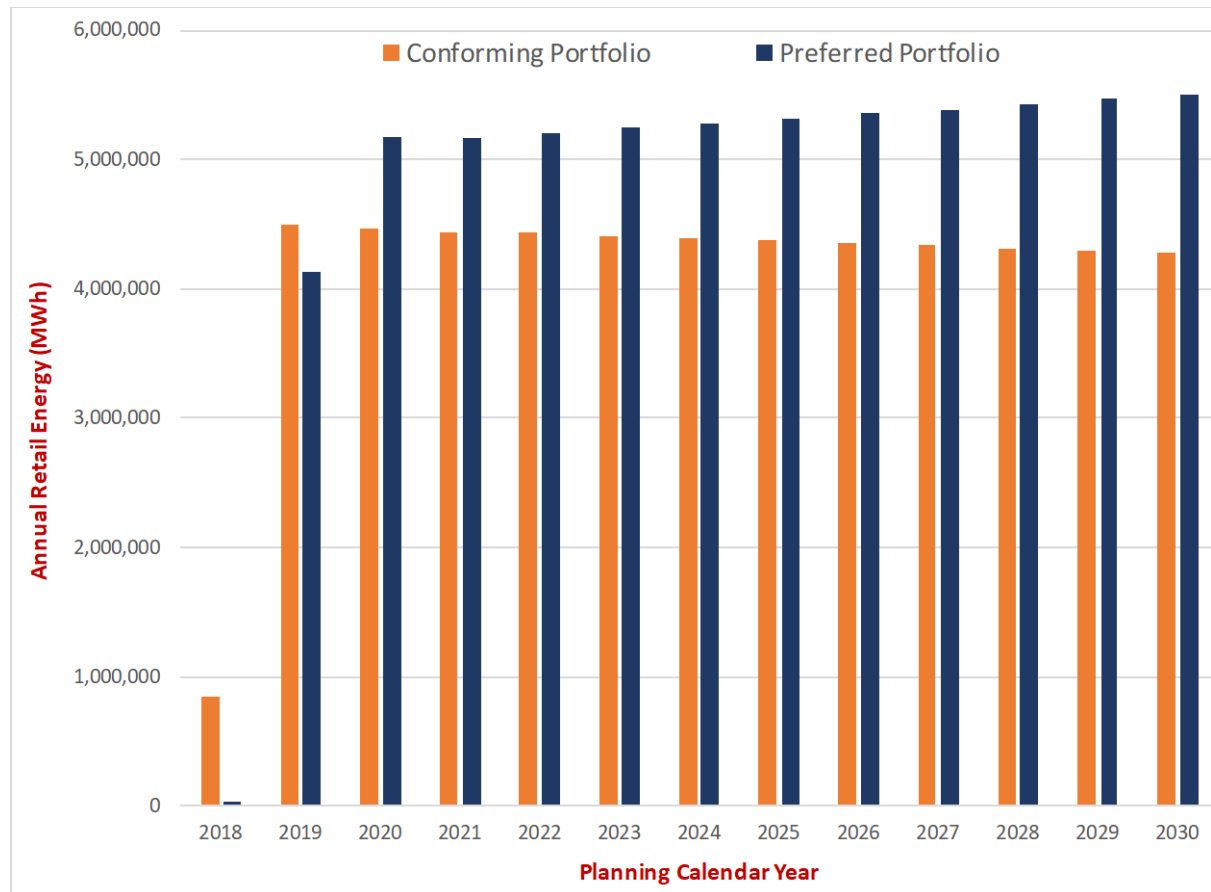
SJCE IRP Modeling Approach

- ❑ SJCE IRP model allows user to select a combination of forward contracts and market purchases to meet the projected SJCE energy over the planning horizon.
- ❑ A number of iterations ensure that the selected resource mix results in the lowest overall cost of procurement including the energy, resource adequacy capacity, renewable energy credits and CAISO-related costs.

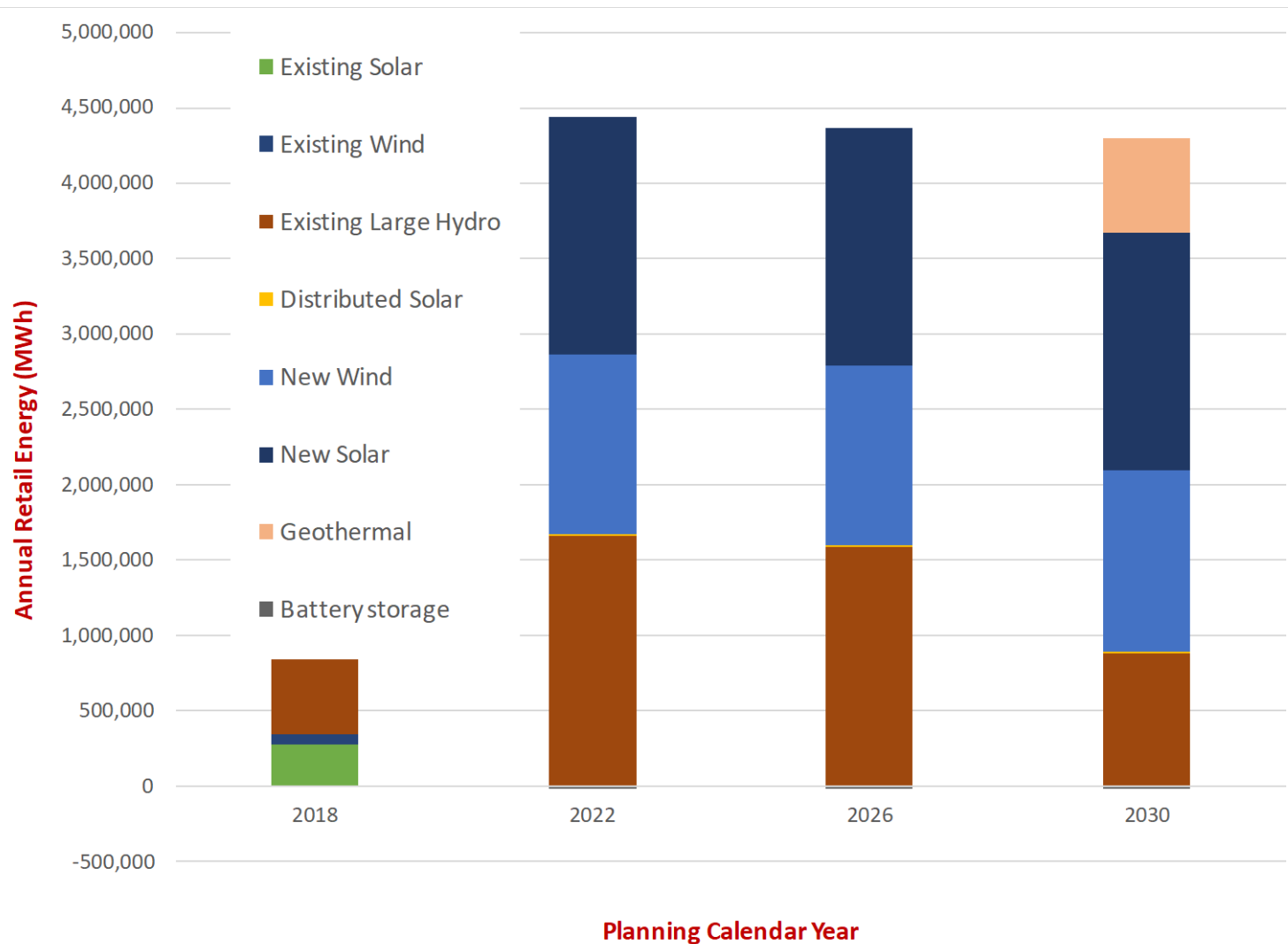


Two SJCE IRP Portfolios

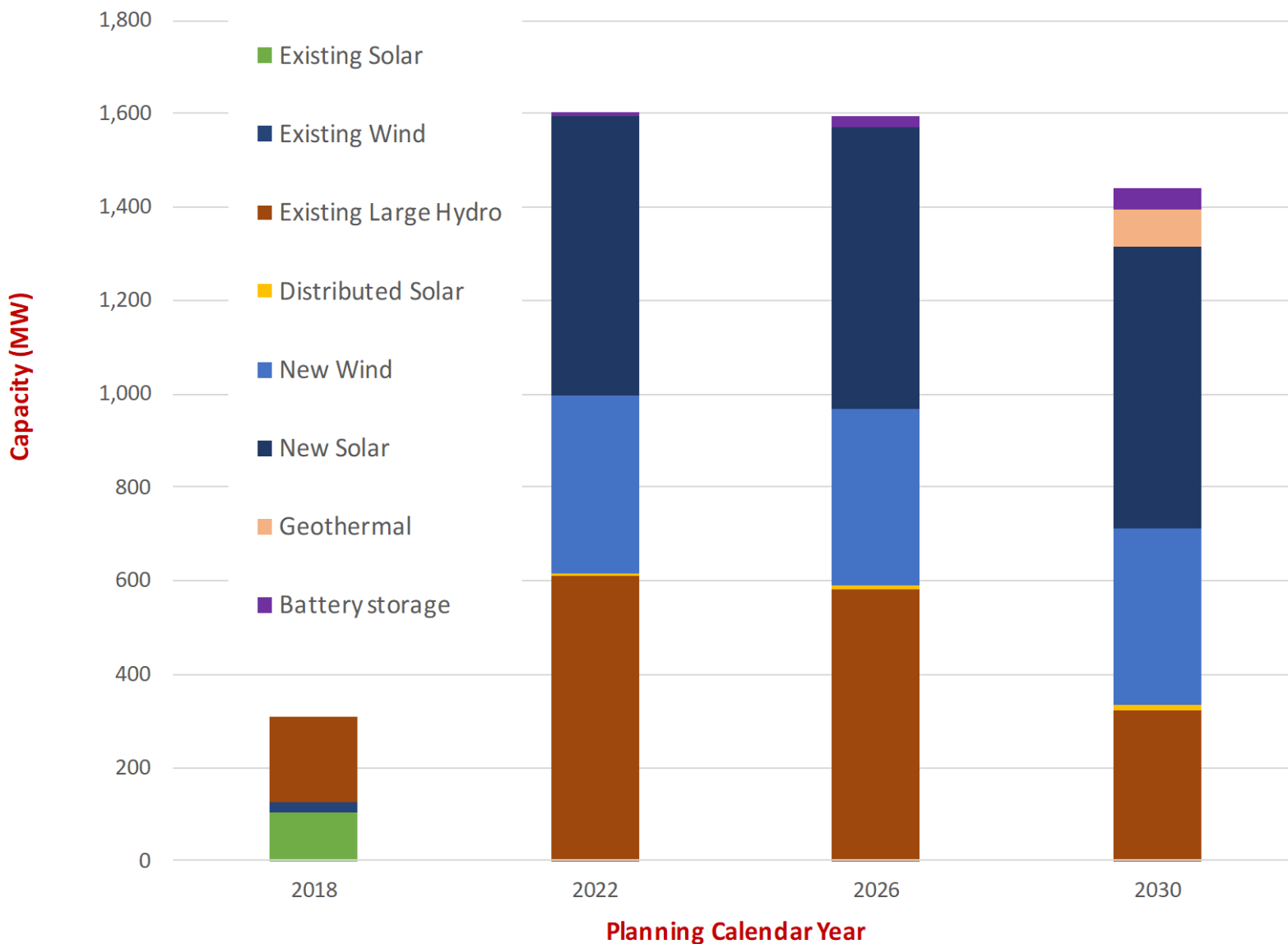
- ❑ **“Conforming” IRP Portfolio**: Based on the load forecast used in the California Energy Commission’s (CEC) adopted 2017 Integrated Energy Policy Report (IEPR).
- ❑ **Alternative “Preferred” IRP Portfolio**: Based on SJCE’s Updated load acquisition, with higher load beginning 2021.



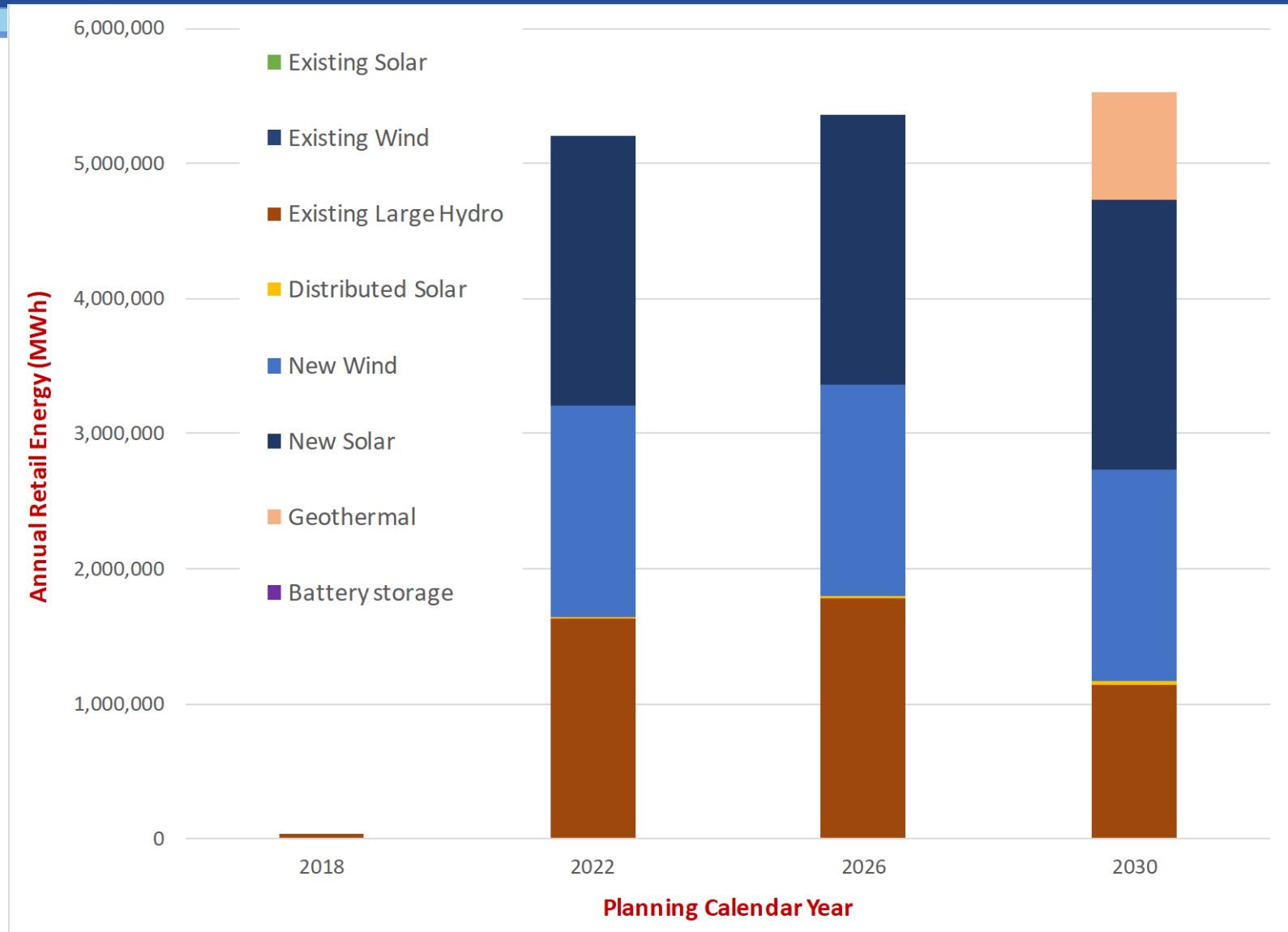
Resource Types Selected in Conforming IRP Portfolio: Energy (MWh)



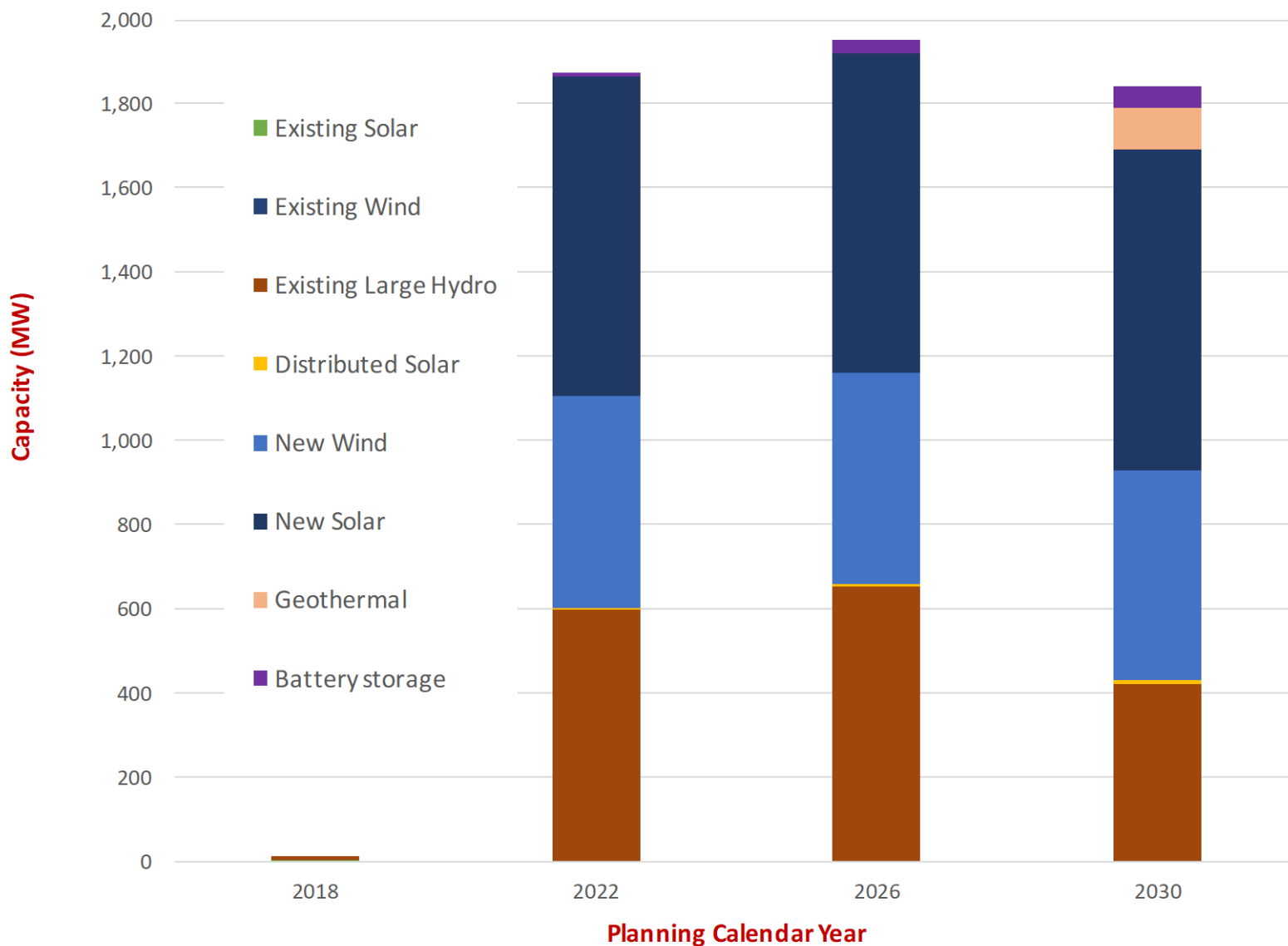
Resource Types Selected in Conforming IRP Portfolio: Capacity (MW)



Resource Types Selected in Preferred IRP Portfolio: Energy (MWh)



Resource types Selected in Preferred IRP Portfolio: Capacity (MW)



SJCE's Projected Emissions Well Below CPUC GHG Benchmarks

