Metric		Unit	2018	2022	2026	2030	Notes
Non-dispatchable CHP		MW					Perfect capacity - 100% CF: e.a. cogeneration
Emission Factor - Non-dispatchable CHP		tCO2/MWh	0.35	0.35	0.35	0.35	For multiple resources, input weighted average
Fraction of EV owners that can charge at work		×	6%	14%	22%	30%	Values shown are "Mid" from CPUC IRP RESOLVE User Interface
Annual REC Sales		GWh	0	2,069	2,069	2,069	
Demand Inputs							
Assigned Load Forecast for IRP (i.e., Managed Retail Sales Forecast)		GWh	47.986	34.169	32.694	33,784	Includes effect of BTM PV. AAEE, etc.
Default Demand Inputs (based on sales-weighted share of total from IEPR)		Units	2018	2022	2026		Notes
Baseline net energy for load (no BTM PV, EV, electrification, energy efficiency)		GWh	54,926	41,392	41,869	45,404	Grossed up for T&D losses; demand met by BTM CHP excluded
Electrice Vehicle Load - Home Charging Only		GWh	376	692	1,068	1,418	Grossed up for T&D losses
Electrice Vehicle Load - Home + Work Charging		GWh	24	113	301	608	Grossed up for T&D losses
Other Electrification		GWh	26	50	83	114	Grossed up for T&D losses
Building Electrification		GWh					Grossed up for T&D losses
Energy Efficiency		GWh	(534)	(1,853)	(3,395)	(5,072)	Grossed up for T&D losses
BTM PV		GWh	(3.031)	(3.531)	(4.667)	(6.052)	Grossed up for T&D losses
Custom Demand Inputs (OPTIONAL: overwrites Assigned Load Forecast for IRP)	Use Custom?	Units	2018	2022	2026	2030	Notes
Baseline net energy for load (no BTM PV, EV, electrification, energy efficiency	Yes	GWh	55,989				
Electrice Vehicle Load - Home Charging Only	Yes	GWh	350				To overwrite, set "Use Custom" to "Yes" and input forecast. Cust
Electrice Vehicle Load - Home + Work Charging	Yes	GWh	93				demand values should be grossed up for T&D losses.
Other Electrification	Yes	GWh					User-specified load profiles should be input in the "Custom Profi
Building Electrification	Yes	GWh	3				tab. Energy efficiency and BTM PV subtract from demand an
Energy Efficiency	Yes	GWh	-1,394				therefore should be entered as negative values.
BTM PV	Yes	GWh	-3.261				
Active Demand Inputs	Source	Units	2018	2022	2026	2030	Notes
Baseline net energy for load (no BTM PV, EV, electrification, energy efficiency	Custom	GWh	55,989				
Other Electrification	Custom	GWh					
Building Electrification	Custom	GWh	3				
Energy Efficiency	Custom	GWh	(1,394)				
RTM PV	Custom	GWb	(3.261)				

Capacity Inputs (MW)						
Candidate Resource	Type	2018	2022	2026	2030	
Battery Storage	Storage					Assumes 4-hr battery storage duration
Pumped Storage	Storage					Assumes at least 12-hr pumped storage duration
Large Hydro	Large Hydro					Assumes average dispatch based on RESOLVE
Nuclear	Nuclear	2.076	1.990			Perfect capacity - 100% CF
CAISO Wind for CAISO	Wind	1.180	1.090	973	809	Existing wind located in CAISO
SW Wind for CAISO	Wind				-	Existing wind located in SW and delivered to CAISO
Contracted NW Wind	Wind				-	Existing wind located in NW and delivered to CAISO
Northern California Wind	Wind				-	
Solano Wind	Wind				-	
Central Valley North Los Banos Wind	Wind					
Greater Carrizo Wind	Wind				-	
Tehachapi Wind	Wind				-	
Kramer Invokern Wind	Wind				-	
Southern California Desert Wind	Wind				-	
Riverside East Palm Springs Wind	Wind				-	
Greater Imperial Wind	Wind				-	
Distributed Wind	Wind				-	
Baia California Wind	Wind				-	
Pacific Northwest Wind	Wind				-	
NW Ext Tx Wind	Wind				-	
Idaho Wind	Wind					
Utah Wind	Wind					
Wyoming Wind	Wind				-	
Southern Nevada Northwest Arizona Wind	Wind				-	
Arizona Wind	Wind				-	
New Mexico Wind	Wind				-	
SW Ext Tx Wind	Wind					
BTM Distributed PV	Solar	1.620				Derived from demand inputs. arossed up for T&D losses. DO NOT EDIT
CAISO Solar for CAISO	Solar	3.491	3.980	3.921	3.832	Existing solar located in CAISO
SW Solar for CAISO	Solar				-	Existing solar located in SW and delivered to CAISO
IID Solar for CAISO	Solar				-	Existing solar located in IID and delivered to CAISO
Northern California Solar	Solar				-	
Solano Solar	Solar				-	
Central Valley North Los Banos Solar	Solar					
Westlands Solar	Solar				-	
Greater Carrizo Solar	Solar				-	
Tehachapi Solar	Solar				-	
Kramer Invokern Solar	Solar				-	
Mountain Pass El Dorado Solar	Solar				-	
Southern California Desert Solar	Solar				-	
Riverside East Palm Sorines Solar	Solar				-	
Greater Imperial Solar	Solar				-	
Baia California Solar	Solar					
Utah Solar	Solar					
Southern Nevada Solar	Solar					
Arizona Solar	Solar				-	
New Mexico Solar	Solar				-	
Geothermal	Geothermal	265	17	17		perfect capacity - 100% CF
Biomass	Biomass	231	250	238		perfect capacity - 100% CF
Small Hydro	Small Hydro	224	184	180	174	perfect capacity - 100% CF

Energy Balance	Unit	2018	2022	2026	2030	Notes
Energy for Load (excluding BTM PV)	GWh	55.042	40.685	40.147	42.020	
Owned or contracted non-dispatchable GHG-emitting re	GWh					
Large Hydro	GWh		_			
Nuclear	GWh					
Renewable Generation (including BTM PV)	GWh	21,703	18,886	19,353	19,143	Includes oversupply
User-specified GHG-free Power	GWh					
Storage Energy Imbalance	GWh					Due to storage losses and subhourly reserves.
Clean Net Short	GWh	544	(6,121)	11,465	14,289	
Emissions	Unit	2018	2022	2026	2030	Notes
Clean Net Short	MMtCO2/yr.					Includes oversupply emissions credits
Owned or contracted non-dispatchable GHG-emitting re-	MMtCO2/vr					

Oversupply	Unit	2018	2022	2026	2030	Notes
Oversupply	GWh	4,554	7,809	1,013	597	Occurs when hourly supply exceeds hourly load
Oversupply Emission Credits	MMtCO2/yr.	1.7	2.1	0.2	0.0	
Capacity/Peak	Unit	2018	2022	2026	2030	Notes
Profile Peak Load	MW	11,156	8,361	8,319	8,737	Peak of hourly load profile - not a 1:10 peak
Owned or contracted non-dispatchable GHG-emitting re	MW					
Large Hydro	MW					
Total Variable Renewables	MW	6,291	6,963	7,310	7,403	Includes BTM PV
User-specified GHG-free Power	MW					
Energy Storage	MW					