

Resource Tracking Data

Data current as of June 2025



California Public
Utilities Commission



Notes on Resource Tracking Data

- **Notes on Online MWs data**

- All data are derived from CAISO [Master Generating Capability List](#), and CPUC [NQC Lists](#) with online dates between **Jan 1, 2020 – July 2, 2025**
- Nameplate Capacity is shown as “Net Dependable Capacity” in the CAISO Master Generating List file.
- Data shown excludes imports, except where specified.
- NQC values are “Estimated September NQC” and subject to change based on counting rules or changes to resource configurations.
- Data showing “Number of Projects” is derived by counting each unique CAISO resource ID as a project.
- “Natural Gas” includes Alamitos Unit 7 (675 MW) and Huntington Beach (674 MW), online in Feb 2020.

- **Notes on Expected New MWs**

- All data are from LSE self-reported contracting for projects expected to come online between 2025 and 2028.
- Data are subject to change as the CPUC gets updated information from LSEs, IOU interconnection departments, developers and others.
- CPUC staff continue to refine the data included herein. Data in this presentation are current up until March 2025 and any subsequent postings will supersede prior postings.
- **Data included here are only the projects under contract to CPUC jurisdictional LSEs, and do not include all resources being developed in the state nor the CAISO footprint.**

- **Notes on Differences between Resource Tracking Data and IRP Compliance**

- Due to numerous differences, such as varied baselines and resource eligibility for compliance, data on New MW Online plus New MW Expected do not exactly match progress towards IRP compliance orders. For information on compliance with IRP Procurement orders, see compliance updates at [IRP Procurement Track \(ca.gov\)](#).

- **Notes on Updates and Questions**

- For the most up-to-date data publicly available, please visit the CPUC's Summer Reliability page.
- For any questions about the data, please contact irpdatarequest@cpuc.ca.gov

Part 1: New MW Online

- New Resources Online from 1/1/2020 to 7/2/2025
 - By Nameplate, NQC, and Number of Projects
- New Resources Online by Year and Resource Type
 - By Nameplate and NQC
- New IRP Procurement Resources Online by Year and Resource Type
 - By Nameplate and NQC

Data includes projects online
as of July 2, 2025

New MWs - Key Takeaways

Total New MW Online between 1/1/2020 - 7/2/2025

	Nameplate Capacity (MW)	Estimated Sept. Net Qualifying Capacity (NQC) MW	Number of Projects by Resource IDs
New SB100 Resources, IN-CAISO	23,396	15,296	357
New Resources, IN-CAISO (includes Natural Gas)	24,935	16,783	374
Total New Reliability Resources, including Imports	26,968	17,902	390

Note: SB100 resources include all eligible renewable energy resources and zero-carbon resources for compliance with California's SB 100 clean energy targets.

Total Storage Online (all time)

	Nameplate Capacity (MW)	Estimated Sept. Net Qualifying Capacity (NQC) MW	Number of Projects by Resource IDs
Battery Energy Storage Systems (BESS) Projects (Including Standalone BESS & Hybrids)	13,234	12,251	202 (incl. 30 hybrids)

Note: MW only include storage portion of hybrids. Includes CAISO imports.

New Energy Resources Online

Data includes projects online
as of July 2, 2025

New Resources Additions, January 1, 2020 – July 2, 2025, Cumulative

Technology Type	Nameplate Capacity MW	Estimated Sept. Net Qualifying Capacity (NQC) MW	Number of Projects
STORAGE	11,836	10,922	161
SOLAR	8,167	2,486	132
HYBRID (STORAGE/SOLAR)	2,165	1,596	28
WIND	1,145	260	23
GEOHERMAL	41	31	1
BIOGAS, BIOMAS, HYDRO	42	0	12
Subtotal Total New SB100 Resources, IN-CAISO	23,396	15,296	357
NATURAL GAS, incl. Alamitos & Huntington Beach	1,539	1,487	17
Total New Resources, IN-CAISO	24,935	16,783	374
New Imports, Pseudo-Tie or Dynamically Scheduled	2,033	1,120	16
Total New Resources, including Imports	26,968	17,902	390

Notes:

All data shown derived from CAISO [Master Generating Capability List](#), and CPUC [NQC Lists](#).

Nameplate Capacity is shown as "Net Dependable Capacity" in the CAISO Master Generating List file. Data shown excludes imports, except where specified. All NQC values are "September NQC" and subject to change based on counting rules and additions to monthly CPUC NQC Lists. "Project" is defined as a unique CAISO resource ID. "Natural Gas" includes Alamitos Unit 7 (675 MW) and Huntington Beach (674 MW) added in Feb 2020. SB100 resources include all eligible renewable energy resources and zero-carbon resources for compliance with California's SB 100 clean energy targets.

New MWs Online - Nameplate

By Year and Resource Type

Data includes projects online
as of July 2, 2025

Technology Type	2020	2021	2022	2023	2024	2025	Total MW	# Projects
SOLAR	1,300	1,048	913	2,482	2,227	198	8,167	132
STORAGE	101	1,703	1,907	2,528	3,553	2,043	11,836	161
HYBRID (SOLAR + STORAGE)	0	26	890	354	503	392	2,165	28
WIND	16	304	367	171	260	27	1,145	23
GEOTHERMAL	0	0	0	0	41	0	41	1
HYDRO	26	0	0	0	0	0	26	4
BIOMASS	0	2	3	3	0.5	3	11	5
BIOGAS	1	0	2	3	0	0	6	3
Subtotal Total New SB100 Resources, IN-CAISO	1,444	3,083	4,082	5,542	6,584	2,662	23,396	357
NATURAL GAS, incl. Alamitos & Huntington Beach	1,448	17	12	0	63	1	1,539	17
Total New Resources, IN-CAISO	2,892	3,100	4,094	5,542	6,647	2,663	24,935	374
New Imports, Pseudo-Tie or Dynamically Scheduled	695	807	49	50	282	150	2,033	16
Total New Resources, including Imports	3,587	3,907	4,143	5,592	6,929	2,813	26,968	390

New MWs Online - Sept NQC

By Year and Resource Type

Data includes projects online
as of July 2, 2025

Technology Type	2020	2021	2022	2023	2024	2025*	Total MW	# Projects
SOLAR	490	436	327	655	561	17	2,486	132
STORAGE	100	1,612	1,906	2,448	3,474	1,383	10,922	161
HYBRID (SOLAR + STORAGE)	0	15	681	253	331	316	1,596	28
WIND	3	65	80	38	63	12	260	23
GEOTHERMAL	0	0	0	0	31	0	31	1
HYDRO	0	0	0	0	0	0	0	4
BIOMASS	0	0	0	0	0	0	0	5
BIOGAS	0	0	0	0	0	0	0	3
Subtotal Total New SB100 Resources, IN-CAISO	593	2,128	2,994	3,394	4,460	1,727	15,296	357
NATURAL GAS, incl. Alamitos & Huntington Beach	1,448	15	11	0	13	1	1,487	17
Total New Resources, IN-CAISO	2,038	2,143	3,005	3,394	4,473	1,728	16,783	374
New Imports, Pseudo-Tie or Dynamically Scheduled	390	387	33	50	201	58	1,120	16
Total New Resources, including Imports	2,431	2,530	3,038	3,444	4,673	1,786	17,902	390

New MWs Online

June 2025 Additions

Data includes projects online as of July 2, 2025

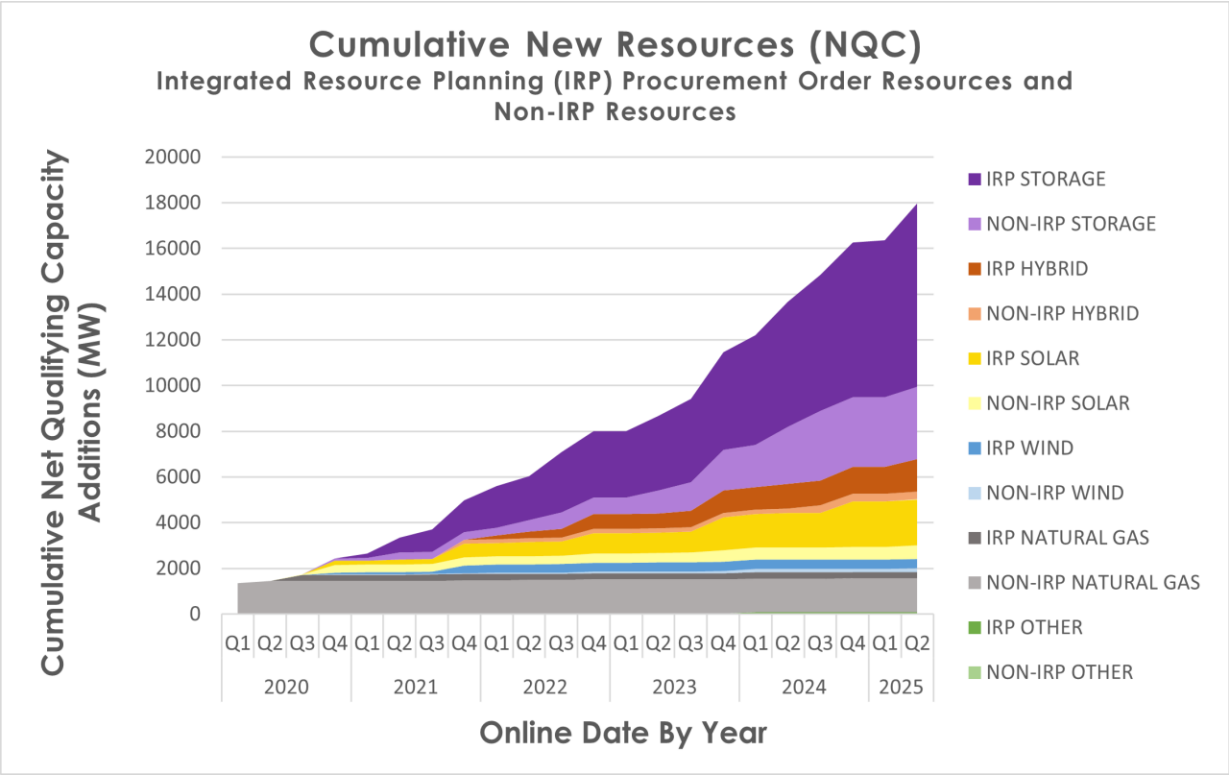
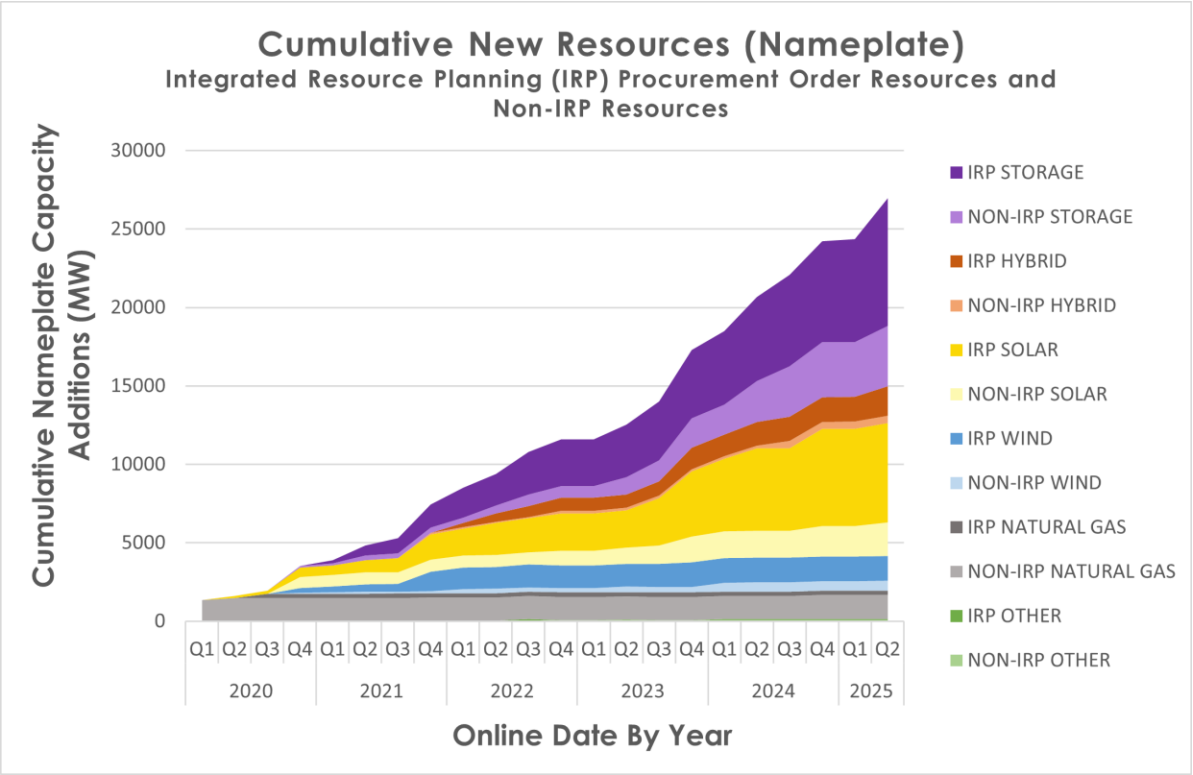
Technology Type	Nameplate Capacity MW	Estimated Sept. Net Qualifying Capacity (NQC) MW	# Projects
STORAGE	280	60*	6
SOLAR	128	0*	2
BIOMASS	3	0*	1
Total New Resources, IN-CAISO	411	60*	9
New Imports, Pseudo-Tie or Dynamically Scheduled	0	0	0
Total New Resources, including Imports	411	60*	9

IRP Procurement

Technology Type	Nameplate Capacity MW	Estimated Sept. Net Qualifying Capacity (NQC) MW	# Projects
STORAGE	280	60*	6
SOLAR	128	0*	2
Total New IRP Procurement	408	60*	8

Total New Procurement By Year and Resource Type

Data includes projects online
as of July 2, 2025

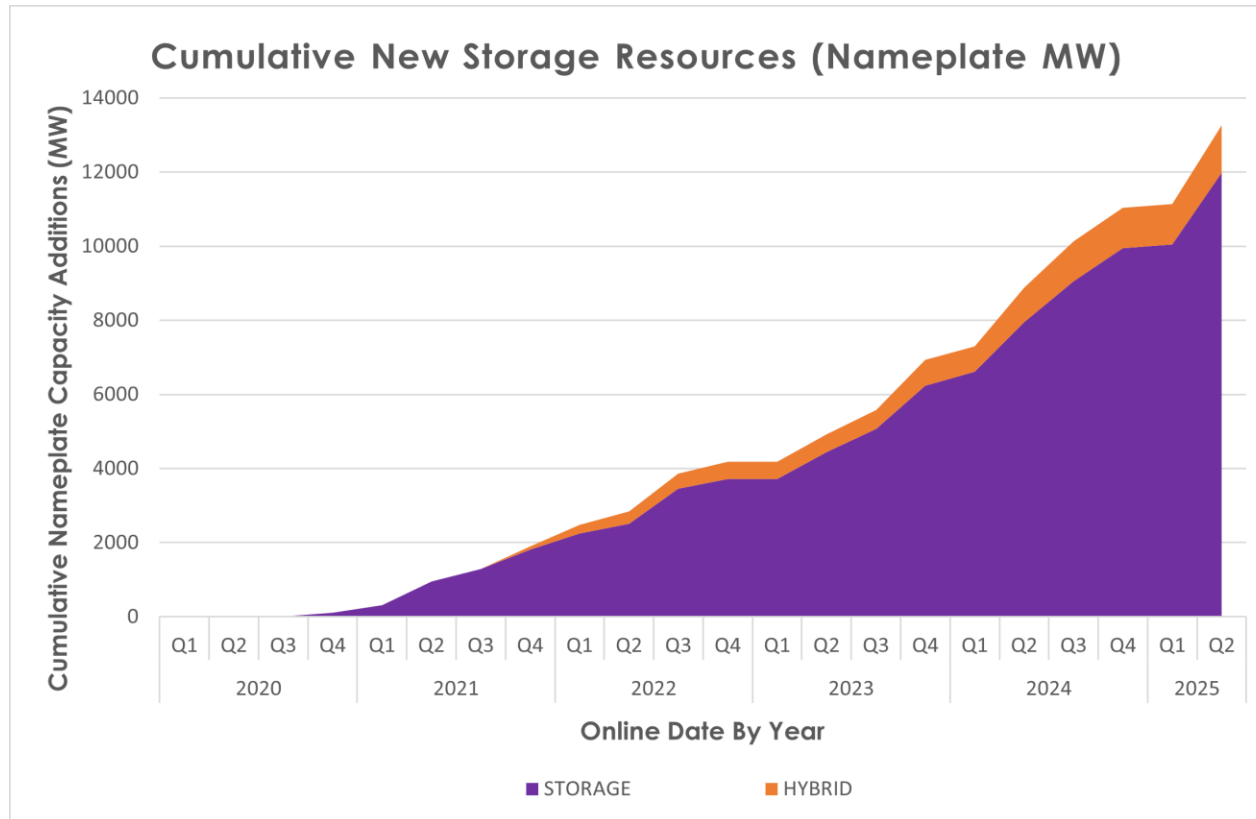


Note: Data shown here shows a snapshot of new resources added to the CAISO grid Q12020 – Q2 2025, including specified CAISO imports. "Other" resources include geothermal, biomass, biogas, and hydropower. Hybrids include some storage, and some other (usually solar) technology. "IRP Procurement Order Resources" refer to resources claimed for compliance with IRP Procurement Orders; "Non-IRP Resources" include resources that are not counting towards IRP Procurement order compliance, which occurs for a variety of reasons such as the resource was in development prior to IRP orders, the resource is energy-only, the resource is not under contract to a CPUC jurisdictional entity, etc.

NQC = Net qualifying capacity (NQC) and represents the amount the resource contributes to reliability; NQC can vary over time, and for each month of the year; the values shown are indicative of September NQC values for the resources.

Data includes projects online
as of July 2, 2025

Total Storage Online By Year



Note: Data shown here shows a snapshot of new resources added to the CAISO grid Q1 2020 – Q2 2025, including specified CAISO imports. Hybrids include some storage, and some other (usually solar) technology. MW shown here only include the storage portion of hybrids.

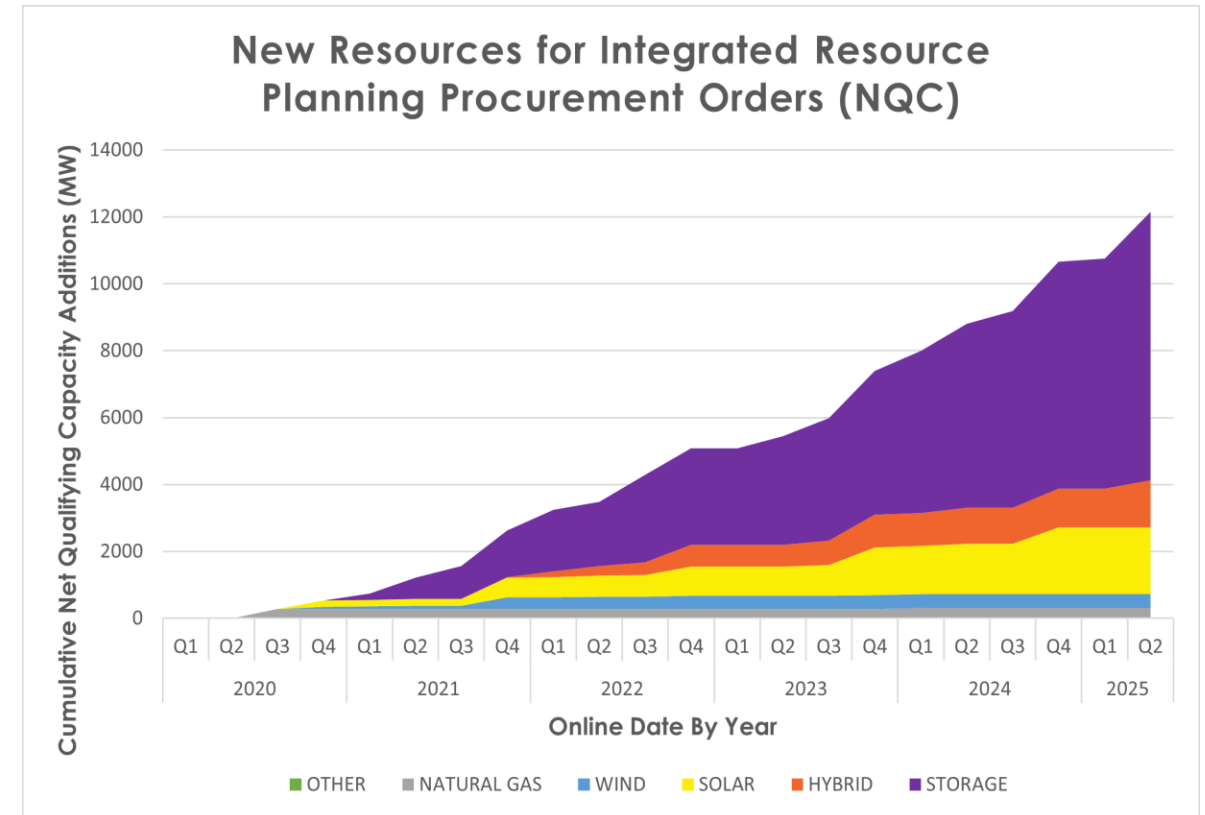
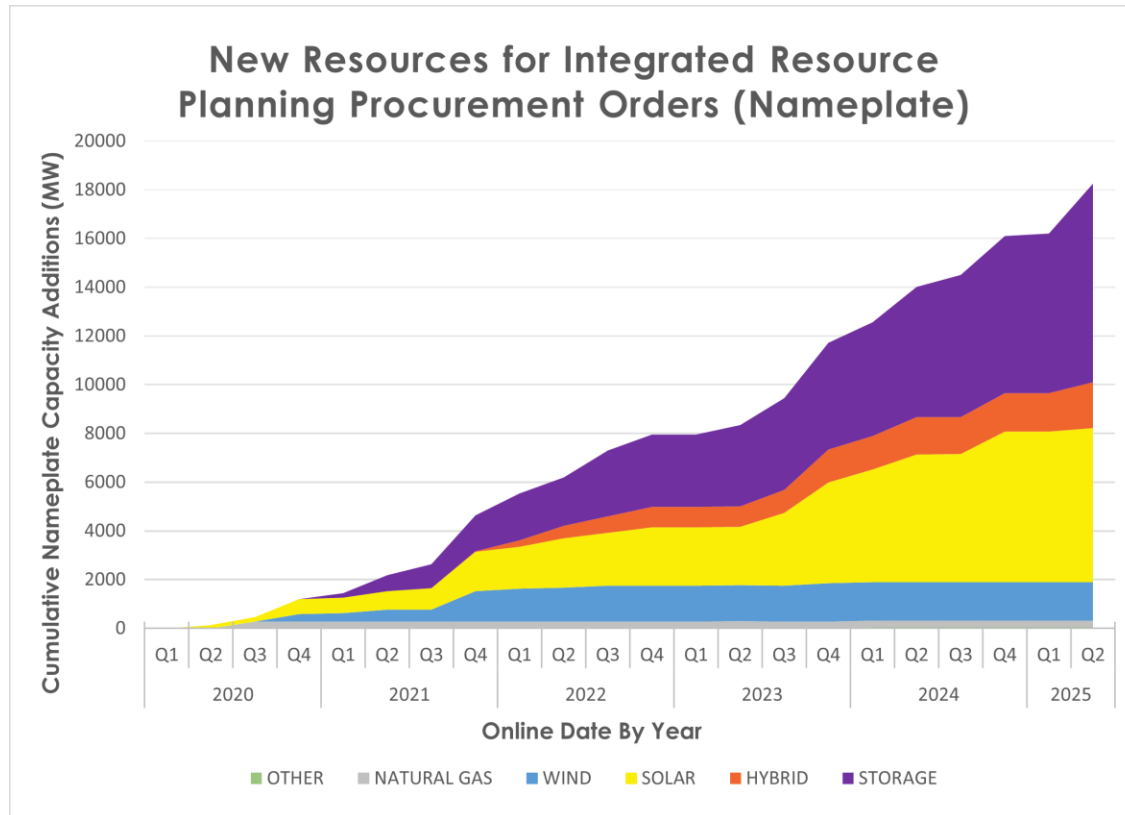
- **Installed to date:** Over 13,000 MW of storage nameplate capacity is online serving the grid as of June 2025, including imports.
 - Includes ~150 MW of storage added prior to 2020
 - Includes standalone battery storage and the storage component of hybrid resources
- **Expected future installs:** Roughly 14,000 MW nameplate capacity of additional storage resources are under contract and expected to come online by 2028.

Part 2: Integrated Resource Planning Compliance

- New IRP Procurement MW by Year and Resource Type- Nameplate
- New IRP Procurement MW by Year and Resource Type – NQC

New IRP Procurement By Year and Resource Type

Data includes projects online
as of July 2, 2025



Note: Data shown here shows a snapshot of new resources added to the CAISO grid Q1 2020 – Q2 2025 for compliance with Integrated Resource Planning (IRP) procurement orders, including specified CAISO imports. "Other" resources includes geothermal, biomass, biogas, and hydropower. Hybrids include some storage, and some other (usually solar). Additional resources have come online for other reasons in this time period but are not included in these figures. See: [IRP Procurement Track \(ca.gov\)](https://www.cpuc.ca.gov/IRP-Procurement-Track) for more information about IRP Procurement Order Compliance.

Part 3: Expected New MWs based on LSE Contracts to date

- Expected New MW by Year and Resource Type- Nameplate
- Expected New MW by Year and Resource Type – NQC
- Total New Energy Resources Online and Under Contract - Nameplate

New MWs Expected - Nameplate

By Year and Resource Type, including imports

Data includes projects expected/under contract as of June 12, 2025

Resource Type	2025	2026	2027	2028	Total
Solar	784	1,823	1,080	150	3,838
Battery Storage	2,559	3,303	3,453	1,209	10,523
Paired/Hybrid	564	1,457	1,288	120	3,429
Wind	51	1,990	-	18	2,059
Geothermal	1	144	175	496	816
Biomass/Biogas	10	-	-	-	10
Totals	3,968	8,717	5,997	1,992	20,674

- Over 20,000 MW nameplate of future contracts are executed to meet CPUC's procurement order obligations.
- Majority of new resource MWs are expected to be battery storage.
- Other types of resources are eligible to meet orders and may be contracted in the future.

New MWs Expected - NQC

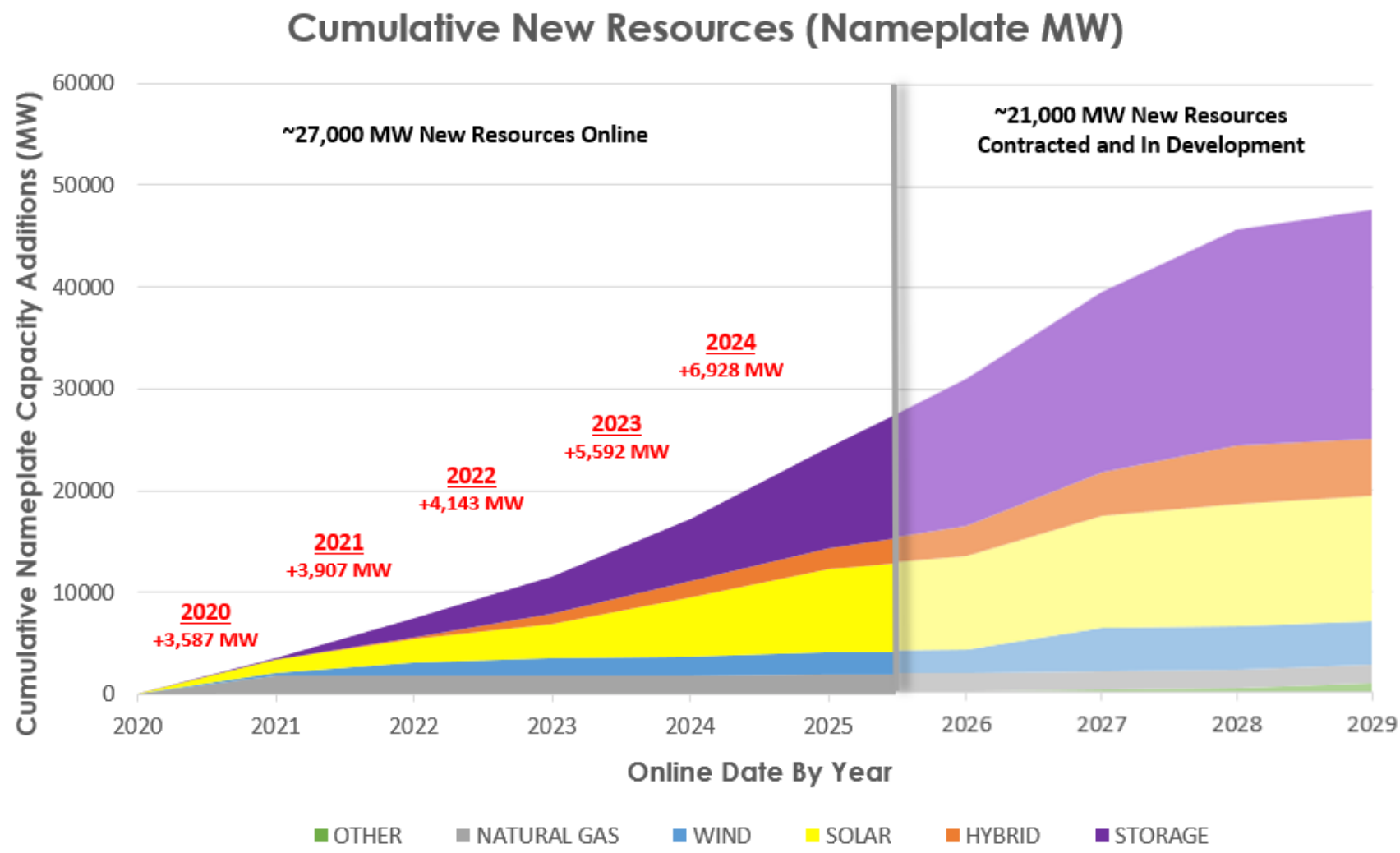
By Year and Resource Type, including imports

Data includes projects expected/under contract as of June 12, 2025

Resource Type	2025	2026	2027	2028	Total
Solar	431	664	905	-	2,001
Battery Storage	2,247	3,144	3,342	1,158	9,891
Paired/Hybrid	397	1,118	856	33	2,403
Wind	16	579	-	4	600
Geothermal	1	139	172	483	796
Biomass/Biogas	10	-	-	-	10
Totals	3,102	5,645	5,276	1,678	15,701

- Over 15,000 MW NQC of future contracts are executed to meet CPUC's procurement order obligations.
- Majority of new resource MWs are expected to be battery storage.
- Other types of resources are eligible to meet orders and may be contracted in the future.

Total New Energy Resources Online and Under Contract



Note: Data shown here shows a snapshot of new resources added to CAISO grid Q12020 – Q2 2025, including specified CAISO imports. Also shown is a projection of future new resources based on contracts in place by June 2025. "Other" resources includes geothermal, biomass, biogas, and hydropower.

Links to Other Key References on New Resource Development

References to Related Information

- (1) Tracking Energy Development Task Force – [Tracking Energy Development \(ca.gov\)](#)
- (2) Joint Agency Reliability Planning Assessments – pursuant to SB 846
 - [May 2024 Report](#)
 - [August 2024 Report](#)
 - [March 2025 Report](#)
 - [May 2025 Report](#)
- (3) California Energy Commission's Energy Almanac - [Energy Almanac \(ca.gov\)](#)
- (4) CAISO Key Energy Statistics: [Media resources | California ISO \(caiso.com\)](#)
- (5) Overview of CPUC IRP Procurement Orders – [IRP Procurement Track \(ca.gov\)](#)
- (6) Overview of CPUC Jurisdictional LSE Procurement in Compliance with IRP Procurement Orders
 - [California Public Utilities Commission \(CPUC\) Staff Review of Load-Serving Entities' \(LSEs'\) Compliance with the Mid-Term Reliability \(MTR, D.21-06-035\) and Supplemental MTR \(SMTR, D.23-02-040\) Decisions, 7/10/2025](#)
 - [Procurement in Compliance with D.19-11-016 and Mid Term Reliability \(D.21-06-035\) per December 1, 2023, 10/9/2024](#)
 - [Procurement in Compliance with D.19-11-016 and Mid Term Reliability \(D.21-06-035\) per August 1, 2023, 4/22/2024](#)
 - [Procurement in Compliance with D.19-11-016 and Mid Term Reliability \(D.21-06-035\) per February 1, 2023, 11/2/2023](#)
 - [Procurement in Compliance with D.19-11-016 per August 1, 2022 Filings, 2/13/2023](#)
 - [Procurement in Compliance with D.19-11-016 per February 1, 2022 Filings, 7/22/2022](#)
 - [Procurement in Compliance with D.19-11-016 per February 1, 2021 Filings, 8/23/2021](#)

For any questions about the data, please contact irpdatarequest@cpuc.ca.gov