

Project Name	Technology Type	Procurement Cycle (e.g. 2014 RFO, Aliso Canyon DBT, etc.)	MWs Transmission	MWs Distribution	MWs Customer	Status of approval of procurement by CPUC	Decision/ Resolution # approving the contracts	COD Status of the MWs (currently online vs in progress)	COD Date	Terminated
AES Alamos ES	Lithium-ion battery	LCR (2013)	100			Approved	D.15-11-041	In progress	1/1/2021	
Stem Energy DRES - 402039	BTM Battery Energy Storage	LCR (2013)			7	Approved	D.15-11-041	In progress	10/1/2018	
Stem Energy DRES - 402040	BTM Battery Energy Storage	LCR (2013)			78	Approved	D.15-11-041	Online/ In progress	AC Bridge online Dec 2016 at .75 MW. As of Aug 2018 at 8MW but is not CAISO integrated; scheduled for integration Oct 2018	
Ice Bear PLS - 431055	Permanent Load Shift	LCR (2013)			1.92	Approved	D.15-11-041	In progress	9/12/2108	
Ice Bear PLS - 431058	Permanent Load Shift	LCR (2013)			1.92	Approved	D.15-11-041	In progress	12/13/2018	
Ice Bear PLS - 431061	Permanent Load Shift	LCR (2013)			1.92	Approved	D.15-11-041	In progress	3/15/2019	
Ice Bear PLS - 431064	Permanent Load Shift	LCR (2013)			1.92	Approved	D.15-11-041	In progress	6/13/2019	
Ice Bear PLS - 431067	Permanent Load Shift	LCR (2013)			1.92	Approved	D.15-11-041	In progress	9/12/2019	
Ice Bear PLS - 431070	Permanent Load Shift	LCR (2013)			1.92	Approved	D.15-11-041	In progress	12/13/2019	
Ice Bear PLS - 431145	Permanent Load Shift	LCR (2013)			1.28	Approved	D.15-11-041	In progress	9/12/2019	
Ice Bear PLS - 431148	Permanent Load Shift	LCR (2013)			1.28	Approved	D.15-11-041	In progress	12/13/2019	
Ice Bear PLS - 431151	Permanent Load Shift	LCR (2013)			1.28	Approved	D.15-11-041	In progress	3/14/2020	
Ice Bear PLS - 431154	Permanent Load Shift	LCR (2013)			1.28	Approved	D.15-11-041	In progress	6/12/2020	

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Ice Bear PLS - 431157	Permanent Load Shift	LCR (2013)			1.28	Approved	D.15-11-041	In progress	9/11/2020	
Ice Bear PLS - 431160	Permanent Load Shift	LCR (2013)			1.28	Approved	D.15-11-041	In progress	12/12/2020	
Ice Bear PLS - 431163	Permanent Load Shift	LCR (2013)			1.28	Approved	D.15-11-041	In progress	12/31/2020	
Ice Bear PLS - 431166	Permanent Load Shift	LCR (2013)			1.28	Approved	D.15-11-041	In progress	12/31/2020	
Ice Bear PLS - 431049	Permanent Load Shift	LCR (2013)			1.92	Approved	D.15-11-041	N/A	N/A	Terminated
Ice Bear PLS - 431052	Permanent Load Shift	LCR (2013)			1.92	Approved	D.15-11-041	N/A	N/A	Terminated
HEBT Irvine1 DRES	BTM Battery Energy Storage	LCR (2013)			5	Approved	D.15-11-041	Online	11/1/2017	
HEBT Irvine2 DRES	BTM Battery Energy Storage	LCR (2013)			5	Approved	D.15-11-041	Online	2/1/2018	
HEBT WLA1 DRES	BTM Battery Energy Storage	LCR (2013)			25	Approved	D.15-11-041	In progress	2/1/2019	
HEBT WLA2 DRES	BTM Battery Energy Storage	LCR (2013)			15	Approved	D.15-11-041	In progress	2/1/2019	
W Power - Stanton - 1	Lithium-ion battery	ES (2014)		1.3		Approved	D.16-09-004	In progress	6/1/2020	
Santa Paula Energy Storage	Zinc hybrid cathode	ES (2014)		10		Approved	D.16-09-004	N/A	N/A	Terminated
Santa Paula Energy Storage	Zinc hybrid cathode	ES (2014)		5		Approved	D.16-09-004	N/A	N/A	Terminated

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Powin Energy - Milligan ESS 1 - ES001	Lithium-ion battery	ACES (2016)		2		Approved	E-4804	Online	1/13/2017	
AltaGas Pomona Energy Inc. - Pomona battery storage 1 - ES004	Lithium-ion battery	ACES (2016)		20		Approved	E-4804	Online	12/31/2016	
Western Grid Development LLC - Santa Paula 1 - ES004	Zinc hybrid cathode	ACES (2016)		5		Approved	E-4804	N/A	N/A	Terminated
Tesla - Mira Loma	Lithium-ion battery	ACES DBT (2016)		20		Approved	D.18-06-009	Online	12/31/2016	
Powin SBI, LLC	Lithium-ion battery	ESDD (2016)		10		Pending Approval	A.17-12-002	In progress	1/1/2022	
AMS CTEC 1	BTM Battery energy storage & traditional DR battery	PRP2 (2016)			5	Approved	D.18-07-023	In progress		TBD - Pending a final and non appealable CPUC Decision
AMS CTEC 2	BTM Battery energy storage & traditional DR battery	PRP2 (2016)			5	Approved	D.18-07-023	In progress		TBD - Pending a final and non appealable CPUC Decision

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AMS CTEC 3	BTM Battery energy storage & traditional DR battery	PRP2 (2016)			10	Approved	D.18-07-023	In progress	TBD - Pending a final and non appealable CPUC Decision	
AMS CTEC 4	BTM Battery energy storage & traditional DR battery	PRP2 (2016)			10	Approved	D.18-07-023	In progress	TBD - Pending a final and non appealable CPUC Decision	
AMS CTEC 5	Lithium-ion battery & traditional DR	PRP2 (2016)			10	Approved	D.18-07-023	In progress	TBD - Pending a final and non appealable CPUC Decision	
Convergent OCES 1	Lithium Ion BESS	PRP2 (2016)		20		Approved	D.18-07-023	In progress	12/1/2019	
Convergent OCES 2	Lithium Ion BESS	PRP2 (2016)		9		Approved	D.18-07-023	In progress	12/1/2019	
Convergent OCES 3	Lithium Ion BESS	PRP2 (2016)		6		Approved	D.18-07-023	In progress	12/1/2019	
SEF1	BTM Battery energy storage & traditional DR battery	PRP2 (2016)			5	Approved	D.18-07-023	In progress	TBD - Pending a final and non appealable CPUC Decision	
Valencia Energy Storage	Lithium Ion BESS	PRP2 (2016)		10		Approved	D.18-07-023	In progress	1/1/2020	
HEJF1	Lithium Ion BESS	PRP2 (2016)		10		Approved	D.18-07-023	In progress	1/1/2020	

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HEJF2	Lithium Ion BESS	PRP2 (2016)		5		Approved	D.18-07-023	In progress	1/1/2020	
Nextera OCES 1	Lithium-ion battery	PRP2 (2016)			8.5	Approved	D.18-07-023	N/A	N/A	Terminated
Nextera OCES 2	Lithium-ion battery	PRP2 (2016)		1.5		Approved	D.18-07-023	N/A	N/A	Terminated
NRG Hybrid 1	Lithium-ion battery	PRP2 (2016)			2	Approved	D.18-07-023	N/A	N/A	Terminated
NRG Hybrid 2	Lithium-ion battery	PRP2 (2016)			2	Approved	D.18-07-023	N/A	N/A	Terminated
NRG Hybrid 3	Lithium-ion battery	PRP2 (2016)			2	Approved	D.18-07-023	N/A	N/A	Terminated
NRG Hybrid 4	Lithium-ion battery	PRP2 (2016)			2	Approved	D.18-07-023	N/A	N/A	Terminated
NRG Hybrid 5	Lithium-ion battery	PRP2 (2016)			2	Approved	D.18-07-023	N/A	N/A	Terminated
Long Beach Convention Center	Permanent Load Shift	PLS Application			0.82	Approved	D.12-04-045	In progress	12/1/2019	
Lockheed Martin	Permanent Load Shift	PLS Application			1.19	Approved	D.12-04-045	In progress	8/1/2019	
Golden West College	Permanent Load Shift	PLS Application			0.8	Approved	D.12-04-045	In progress	12/1/2018	
PLS/TES - Molina Healthcare	Permanent Load Shift	PLS Application			1.14	Approved	D.12-04-045	Online	5/1/2015	
PLS/TES - AMPAS	Permanent Load Shift	PLS Application			0.11	Approved	D.12-04-045	In progress	10/1/2018	
PLS/TES - Cypress College	Permanent Load Shift	PLS Application			0.7	Approved	D.12-04-045	Online	6/1/2018	

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PLS/TES - Santa Ana College Central	Permanent Load Shift	PLS Application			0.53	Approved	D.12-04-045	In progress	10/1/2018	
PLS/TES - Mt San Antonio College	Permanent Load Shift	PLS Application			1.5	Approved	D.12-04-045	Online	3/1/2017	
PLS/TES - Chaffey College	Permanent Load Shift	PLS Application			0.8	Approved	D.12-04-045	Online	7/1/2016	
SCE EGT - Grapeland	Lithium-ion battery	Bilateral	10			Approved	D.18-06-009	Online	12/31/2016	
SCE EGT - Center	Lithium-ion battery	Bilateral	10			Approved	D.18-06-009	Online	12/31/2016	
Tehachapi Storage Project (TSP)	Lithium-ion battery	DOE Project; RFP		8		Approved	Advice 2482-E/ Resolution E-4355 and DOE ARRA Funding	Online	Year 2014	
Irvine Smart Grid-Community Energy Storage	Lithium-ion battery	DOE Project; RFP		0.03		Approved	Various and DOE ARRA Funding	Decommissioned	Year 2013	
Irvine Smart Grid-Containerized Energy Storage	Lithium-ion battery	Direct Award		2		Approved	2012 General Rate Case (D.12-11-051) and DOE ARRA Funding	Decommissioned	Year 2014	
Irvine Smart Grid-Residential ES Unit	Lithium-ion battery	DOE Project; RFP			0.06	Approved	Various and DOE ARRA Funding	Decommissioned	Year 2013	

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Large Storage Test	Lithium-ion battery	Direct Award		2		Approved	2012 General Rate Case (D.12-11-051)	Online	Year 2011	
Discovery Science Center	Metal halide battery	RFP			0.1	Approved	D.12-04-045	Transferred resource to customer	Year 2014	
Catalina Island Battery Storage	NaS battery	RFP		1		Approved	2012 Catalina General Rate Case	Online	Year 2012	
Distribution Energy Storage Integration ("DESI") 2	Lithium-ion battery	RFP		1.4		Approved	2015 General Rate Case (D.15-11-021)	In progress	Q3 2018	
Mercury 4	Lithium-ion battery	RFP		2.8		Approved	2018 General Rate Case (A.16-09-001)	In progress	Q3 2018	
V2G-LA AFB	EV batteries	CPUC Approved Tariff Pilot		0.65		Approved	Advice Letter 2889-E	Online	Year 2014	
Self Generation Incentive Program (SGIP)	Various	SGIP Application			96	Approved	D.11-12-030	Online	Various	
Distribution Energy Storage Integration ("DESI") 1	Lithium-ion battery	RFP		2.4		Approved	D.12-011-051	Online	Year 2015	