BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Continue Electric

Integrated Resource Planning and Related

Procurement Processes.



02/01/23 04:59 PM R2005003 Rulemaking 20-05-003 (Filed May 7, 2020)

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA'S
FEBRUARY 2023 INTEGRATED RESOURCE PLAN PROCUREMENT UPDATE
[PUBLIC VERSION]

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On behalf of The Regents of the University of California

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

	,	
Order Instituting Rulemaking to Continue Electric)	
Integrated Resource Planning and Related)	Rulemaking 20-05-003
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)	
)	

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA'S FEBRUARY 2023 INTEGRATED RESOURCE PLAN PROCUREMENT UPDATE [PUBLIC VERSION]

In compliance with the requirements from California Public Utilities Commission ("Commission") Decision ("D.") 20-12-044, D.21-06-035, related Energy Division guidance, and Energy Division's January 4, 2023, *Filing Requirements Overview for February 1, 2023 IRP Procurement Compliance Filing & Data Request,* The Regents of the University of California ("UC") hereby provides its February 2023 Integrated Resource Plan ("IRP") Procurement Update to the Commission.

UC is filing the public version of this pleading in this Rulemaking and serving it to all parties identified on this Rulemaking's service list. Attached to this pleading is UC's electricity procurement-related data, provided in Resource Data Template Version 3 ("RDTv3"), with confidential information redacted. This data includes resources procured to satisfy the requirements of D.21-06-035, and data requested regarding resources procured within the LA Basin local capacity area, if applicable. The confidential version of UC's filing consists of an unredacted RDTv3, and related supporting documents demonstrating progress toward project Milestones, consistent with D.20-12-044.

I. CONCLUSION

UC thanks the Commission for its time and effort in this Rulemaking and for its review of UC's February 2023 IRP Procurement Update.

Dated: February 1, 2023 Respectfully submitted,

/s/ Josh Stoops

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On behalf of The Regents of the University of California

Attachment A UC Verification

Verification

Consistent with the direction provided in Energy Division's January 4, 2023, *Filing Requirements Overview for February 1, 2023 IRP Procurement Compliance Filing & Data Request* and Rule 1.11 of the California Public Utilities Commission's ("Commission") Rules of Practice and Procedure, Clean Energy Alliance provides this Verification. I am an officer of the reporting organization herein and am authorized to make this verification on its behalf. The statements in the foregoing document are true of my own knowledge, except as to matters which are therein stated on information or belief, and as to those matters, I believe them to be true. I declare under the penalty of perjury that the foregoing is true and correct.

Executed on February 1, 2023, at Oakland, California.

Respectfully submitted,

/s/ Cynthia Clark

Cynthia Clark
Clean Power Program Director, Energy &
Sustainability
University of California, Office of the
President
1111 Franklin Street
Oakland, CA 94607
Cynthia.Clark@ucop.edu

Attachment B [PUBLIC] UC RDTv3

resource	alternative_resource_name			interconnection_substation	marginal_addition	marginal_addition_to	total_nameplate_capacity	contracted_nameplate_capacity	sep_contracted_mw_nqc	contract_gwh_annual	is_hybrid_paired	can_charge_from_grid	total_generator_mw	contracted_generator_mw
NEW_GENERIC_SOLAR_1AXIS	Sandrini Sol 1 Solar Park	Development	Q-1397	NA.	NA						NotHybrid			
_NEW_GENERIC_SOLAR_1AXIS	Golden Fields Solar	Development	Q-1212	NA.	NA						NotHybrid			
GIFENS_6_BUGSL1	Giffen	Online			NA						NotHybrid			
	_NEW_GENERIC_SOLAR_1AXIS _NEW_GENERIC_SOLAR_1AXIS	_NEW_GENERIC_SOLAR_LAXIS Sandrini Sol 1 Solar Park _NEW_GENERIC_SOLAR_LAXIS Golden Fields Solar	NEW_GENERIC_SOLAR_1AXIS Sandrini Soi 1 Solar Park Development NEW_GENERIC_SOLAR_1AXIS Golden Fields Solar Development	_NEW_GENERC_SCHAR_LAWS Sandon Sci 1 Solar Park Development Q-1297 _NEW_GENERC_SCHAR_LAWS Golden Fields Solar Development Q-1212	ARW (ENRINC SOLAR, LAXIS Sandrol Soil Solar Park Development 0,1397 NA NEW (ENRINC SOLAR, LAXIS Golden Rields Solar Development 0,1212 NA	JRIV CENERS, SOLAR LAXIS Sandrin Sed 1 Solar Park Development Q-1397 NA NA NA NA NA SANDRING SOLAR LAXIS Golden Fields Solar Development Q-1212 NA NA	JRIV GENERIC SCARE JANES Sandrins Sed Soler Park Development Q-1397 NA NA NA NA SOLECTION SCARE SOLECTION SOLECTION SOLECTION NA	ARW GENERS SOLAR LAUS Sandrol Soil Soile Field Development 0-1397 NA	NEW GENERIC SOLAR, LAXS Sandrei Sal Solar Park Development Q-1397 NA	NRW_GINERC_SOLAH_LAXIS Sandris Sal Salar Park Development Q-1397 NA	ARW GENERS SOLAR JANS Sandrol Soil Solar Park Development 0-1397 NA	ARW (ENERC SOLAL LAXS Sandrol Soil Solar Firsk Development Q-1297 NA	Non-SININE SOLAL LAXS Sandori Sol Solar Park Development Q-1397 NA	ARW GENERS SOLAR LAUS Sandrol Soil Solar Park Development Q-1397 NA

UC_RADNLY_RCEA_2 NEW_GENERIC_SOLAR_LAXIS 1Axis				4
	D.19-11-016	Buy	Redwood Coast Energy Authority	EDPR North America
UC_PPA_GoldenFields_1 NEW_GENERIC_SOLAR_1AXIS 1Axis		Buy	non-LSE supplier	Golden_Fields_Solar_IV_LLC
UC_PPA_Giffen GIFENS_6_BUGSL1 1Avis	D.19-11-016	Buy	non-LSE supplier	Giffen_Solar_Park_LLC

	ue_contract_id	resource	developer_name	capacity_area	capacity_sub_area	cpuc_approval_ref	county	COD_year	COD_month	COD_day	contract_start_date_yea	ar contract_start_date_month	contract_start_date_day	contract_end_date_year	contract_end_date_month	contract_end_date_day	contract_execution_date_year	contract_execution_date_month	contract_execution_date_day	tx_upgrades
	ONLY_RCEA_2	_NEW_GENERIC_SOLAR_1AXIS	NA NA	Kern			KernCounty													4
UC_PPA_	GoldenFields_1	_NEW_GENERIC_SOLAR_1AXIS	NA.	Kern			KernCounty													4
UC_I	PPA_Giffen	GIFENS_6_BUGSL1	NA NA	GreaterFresno			FresnoCounty	2017	8	3	2014	9	3	2042	8	2	2014	9	3	
							, , , ,													_

resource	tx_upgrade_date_year	tx_upgrade_date_month	tx_upgrade_date_day	tx_upgrade_description	d1911016_tranche	d2106035_procurement_cat	mtr_tranche1_NQC	mtr_tranche2_NQC	mtr_tranche3_NQC	mtr_tranche4_NQC_LDES	mtr_tranche4_NQC_firm_ZE	mtr_NQC_ZE_gen_paired_dr	previous_COD_year	previous_COD_month	previous_COD_day	remediation_plan	signed_contract	notice_to_proceed	public_contract
NEW_GENERIC_SOLAR_1AXIS					3														4
_NEW_GENERIC_SOLAR_1AXIS																			4
GIFENS_6_BUGSL1					18283											NO	YES	YES	
		_NEW_GENERIC_SOLAR_LAXIS _NEW_GENERIC_SOLAR_LAXIS	NEW GENERIC SOLAR JAXIS _NEW_GENERIC SOLAR JAXIS	NEW, GENERIC, SOLAR, JAXIS NEW, GENERIC, SOLAR, JAXIS	NEW GENERC SOLAR LAXIS NEW GENERC SOLAR LAXIS	NEW GENERIC SOLAR JAMS NEW GENERIC SOLAR JAMS 3	NOW, GINERY, SOAM, JAM'S NEW, GINERY, SOAM, JAM'S 3	NEW CENERC SOLAR LAWS NEW CENERC SOLAR LAWS 3	NEW CONDEC SOLAR LAWS NEW CONDEC SOLAR LAWS	NEW GENERIC SCAAR JAKES NEW GENERIC SCAAR JAKES	NEW CONDEC SCAM LAWS 3	NEW GENERIC SCARE, MASS 3	NEW GENERIC SCAM, LAWS 1 NEW GENERIC SCAM, LAWS	NEW GENERIC SCARE, MASS NEW GENERIC SCARE, MASS	NEW CONDEC SCAM LAWS 3	NEW GENERIC SCARE, MASS 3	NEW GENERIC SCLAR, MASS 3	NEW GENERIC SCARE, MASS 3	NEW GENERIC SCLAR, MASS 3

lse_unique_contract_id	resource	buying_energy_capacity	NQC_reporting_source	procurement_origin	csp_resource_category	csp_annual_2024	csp_annual_2026	csp_annual_2030	csp_annual_2035	macro_supertype	notes
UC_RAONLY_RCEA_2	_NEW_GENERIC_SOLAR_1AXIS	CapacityOnly	In the contract	D1911016	NA					newgeneric	
UC_PPA_GoldenFields_1	_NEW_GENERIC_SOLAR_1AXIS	EnergyCapacity	Calculated		Solar New SCE SDG&E (GWh)					newgeneric	
UC_PPA_Giffen	GIFENS_6_BUGSL1	EnergyCapacity	Calculated	D1911016	Solar Baseline California (GWh)	37.39428	37.17008	36.72624	36.17828	physical	

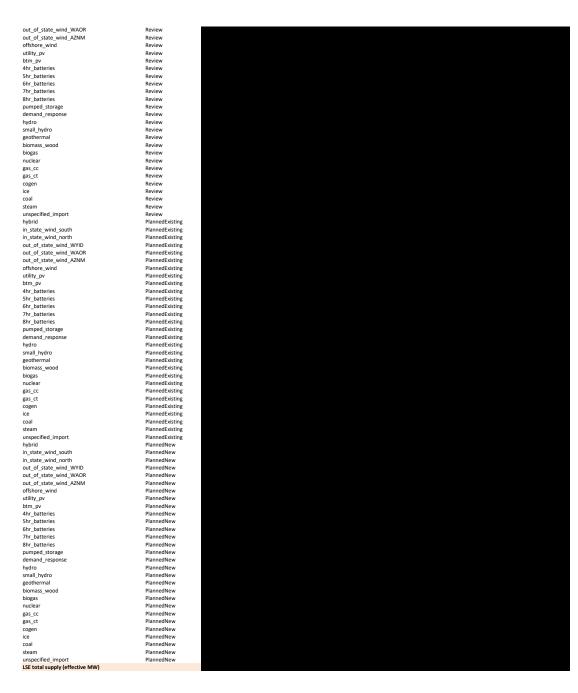
resource	contract_status	contracted_nameplate_capacity	is_hybrid_paired	can_charge_from_grid	contracted_generator_mw	contracted_storage_mw	contracted_storage_depth_mwh	buy_sell_own	contract_start_date_year	contract_start_date_month
_NEW_GENERIC_SOLAR_1AXIS	Development		NotHybrid	0				Buy		
_NEW_GENERIC_SOLAR_1AXIS	Development		NotHybrid	0				Buy		
_NEW_GENERIC_BATTERY_STORAGE	Development		NotHybrid	0				Buy		
GIFENS_6_BUGSL1	Online		NotHybrid	0				Buy		
_NEW_GENERIC_WIND	PlannedNew		NotHybrid	0				Buy		
_CREZ_GENERIC_NEW_MEXICO_WIN	PlannedNew		NotHybrid	0				Buy		
_NEW_GENERIC_BATTERY_STORAGE	PlannedNew		NotHybrid	0				Buy		
_NEW_GENERIC_BATTERY_STORAGE	PlannedNew		NotHybrid	0				Buy		

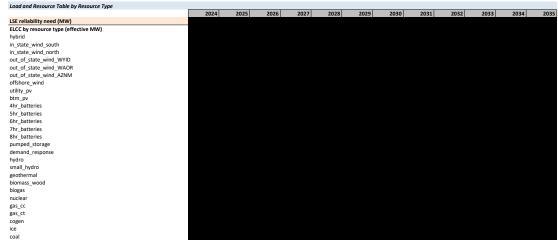
resource	contract_start_date_day	contract_end_date_year	contract_end_date_month	contract_end_date_day	buying_energy_capacity	multiplier resource el hybrid/p	air elcc type (f start	year end yea	ır hybrid stor	short durat	2024	2025	2026	2027	2028
_NEW_GENERIC_SOLAR_1AXIS					CapacityOnly	1 utility_pv n/a	utility_pv	2024 20	32 100%	100%					
_NEW_GENERIC_SOLAR_1AXIS					EnergyCapacity	1 utility_pv n/a	utility_pv	2025 20	39 100%	100%					
_NEW_GENERIC_BATTERY_STORAGE					EnergyCapacity	1 4hr_batter n/a	4hr_batter	2025 20	39 100%	100%					
GIFENS_6_BUGSL1					EnergyCapacity	1 utility_pv n/a	utility_pv	2015 20	41 100%	100%					
_NEW_GENERIC_WIND					EnergyCapacity	1 in_state_w n/a	in_state_w	2025 20	38 100%	100%					
_CREZ_GENERIC_NEW_MEXICO_WINL					EnergyCapacity	1 out_of_sta n/a	out_of_sta	2026 20	40 100%	100%					
_NEW_GENERIC_BATTERY_STORAGE					CapacityOnly	1 4hr_batter n/a	4hr_batter	2024 20	33 100%	100%					
_NEW_GENERIC_BATTERY_STORAGE					CapacityOnly	1 4hr_batter n/a	4hr_batter	2024 20	33 100%	100%					

resource	2029	2030	2031	2032	2033	2034	2035
_NEW_GENERIC_SOLAR_1AXIS _NEW_GENERIC_SOLAR_1AXIS _NEW_GENERIC_BATTERY_STORAGE							
GIFENS_6_BUGSL1							
_NEW_GENERIC_WIND							
_CREZ_GENERIC_NEW_MEXICO_WINL							
_NEW_GENERIC_BATTERY_STORAGE							
_NEW_GENERIC_BATTERY_STORAGE							

25 MM

Reliability Need	_												
CAISO gross peak (MW)		2024 53,530	2025 54,113	2026 54,769	2027 55,494	2028 56,125	2029 56,797	2030 57,454	2031 58,178	2032 58,827	2033 59,511	2034 60,161	203 60,803
PRM (%)		14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14
CAISO total reliability need (TRN) (MW)		61,024	61,689	62,437	63,263	63,983	64,749	65,498	66,323	67,063	67,843	68,584	69,31
MRN/TRN ratio CAISO marginal reliability need (MRN) (MW)		0.77 47,112	0.79 48,652	0.80 50,193	0.78 49,099	0.75 48,005	0.76 49,369	0.77 50,732	0.74 49,261	0.71 47,790	0.68 46,318	0.65 44,847	0.6 43,37
LSE managed peak share (%) LSE MRN (MW)													
ESE MINIT (MITT)	_												
BTM PV		2024	2025	2025	2027	2020	2020	2020	2024	2022	2022	2024	202
Capacity (MW)		36	38	2026 41	43	2028 46	49	2030 51	2031 54	2032 56	2033 59	61	203
ELCC (%) Resource Type		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	203
in_state_wind_south		12%	14%	15%	11%	6%	8%	9%	8%	7%	6%	5%	4
in_state_wind_north out of state wind WYID		24% 47%	27% 45%	31% 44%	21% 38%	12% 32%	15% 33%	19% 34%	17% 33%	15% 32%	13% 31%	11% 31%	9 30
out_of_state_wind_WAOR		29%	28%	27%	23%	20%	20%	21%	20%	20%	19%	19%	18
out_of_state_wind_AZNM		42%	41%	40%	34%	29%	30%	30%	30%	29%	28%	28%	27
offshore_wind utility_pv		67% 12%	62% 12%	56% 12%	56% 10%	55% 8%	58% 8%	61% 7%	55% 7%	49% 7%	44% 7%	38% 7%	32 6
btm_pv		5%	5%	4%	5%	6%	5%	5%	5%	5%	5%	5%	6
4hr_batteries		85%	86%	87%	85%	82%	85%	89%	79%	69%	60%	50%	40
5hr_batteries 6hr_batteries		86% 87%	87% 88%	88% 88%	85% 86%	83% 84%	86% 86%	89% 89%	81% 82%	72% 75%	64% 69%	56% 62%	47 55
7hr_batteries		88%	88%	88%	86%	85%	87%	89%	84%	78%	73%	68%	62
8hr_batteries		89%	89%	88%	87%	86%	87%	89%	85%	81%	77%	73%	70
pumped_storage demand_response		90% 77%	89% 80%	88% 82%	87% 77%	86% 73%	87% 80%	89% 86%	86% 72%	83% 58%	80% 43%	76% 29%	73 14
hydro		51%	52%	53%	52%	51%	53%	54%	52%	50%	48%	45%	43
small_hydro		36%	37%	38%	38%	37%	38%	39%	37%	36%	34%	32%	31
geothermal biomass_wood		86% 78%	89% 79%	92% 81%	92% 82%	93% 83%	92% 81%	91% 80%	92% 82%	93% 84%	93% 85%	94% 87%	95 88
biogas		75%	77%	78%	79%	79%	78%	77%	78%	80%	82%	84%	86
nuclear		93%	94%	94%	94%	94%	93%	93%	93%	94%	95%	95%	96
gas_cc gas_ct		84% 81%	85% 83%	86% 86%	87% 84%	87% 82%	86% 81%	85% 79%	86% 80%	87% 82%	88% 83%	90% 84%	91 85
cogen		93%	93%	93%	93%	94%	93%	92%	93%	93%	93%	93%	93
ice		93%	94%	94%	94%	94%	95%	95%	93%	92%	91%	89%	88
coal steam		69% 78%	71% 79%	73% 81%	72% 80%	72% 80%	69% 78%	66% 76%	69% 78%	72% 80%	75% 82%	78% 84%	81 87
unspecified_import		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100
Contract ELCC (effective MW) Resource Type	Conrtact Status	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	203
hybrid	Online												
in_state_wind_south in_state_wind_north	Online Online												
out_of_state_wind_WYID	Online												
out_of_state_wind_WAOR	Online												
out_of_state_wind_AZNM offshore_wind	Online Online												
utility_pv	Online												
btm_pv	Online												
4hr_batteries 5hr_batteries	Online Online												
6hr_batteries	Online												
7hr_batteries	Online												
8hr_batteries pumped storage	Online Online												
demand_response													
hydro	Online												
	Online												
small_hydro	Online Online												
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geothermal biomass_wood biogas nuclear gas_cc gas_ct cogen ice coal steam unspecified_import hybrid in_state_wind_south in_state_wind_south in_state_wind_north out_of_state_wind_WVID out_of_state_wind_WAOR out_of_state_wind_WAOR out_of_state_wind_wAOR bitm_pv bitm_pv dr_batteries Shr_batteries	Online Development												
geothermal bioimass_wood biogas nuclear gas_cc gas_ct cogen cice coal steam unspecified_import hybrid in_state_wind_south in_state_wind_north out_of_state_wind_morth out_of_state_wind_MADR out_of_state_wind_MADR out_of_state_wind_MADR bitteries bir_batteries Shr_batteries Shr_batteries Shr_batteries Shr_batteries Bhr_batteries Bhr_batteries pumped_storage deemand_response hydro small_hydro geothermal	Online Development												
geothermal biolimass_wood biogas biogas mulcelar gas_cc gas_ct cogen ice coal steam unspecified_import hybrid in_state_wind_south in_state_wind_north out_of_state_wind_north out_of_state_wind_MVADR out_of_state_wind_MVADR out_of_state_wind_WADR out_of_state_wind_wind_wind biom_pv bir_pv bir_pv bir_pv bir_batteries Shr_batteries Shr_batterie	Online Development												
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geothermal biolimass_wood biologas ucuclear gas_ct cas_ct	Online Development												
geothermal bibimass_wood biogas nuclear gas_cc gas_ct cogen coca gas_ct ct gas_ct coca gas_ct coca gas_ct coca gas_ct coca gas_ct ct gas_ct gas_ct ct gas_ct ga	Online Development												
geothermal bibimass_wood biogas nuclear gas_cc gas_ct cogen cice cocal steam unspecified_import hybrid in, state_wind_south in, state_wind_north out_of_state_wind_MVID state_import_out_of_state_wind_MVID out_of_state_wind_MVID out_of_state_wind_MVID out_of_state_wind_MVID out_of_state_wind_MVID out_of_state_wind_MVID out_of_state_wind_MVID out_of_state_wind_MVID out_of_state_import_out_out_of_state_import_out_out_of_state_import_out_out_of_state_import_out_of_state_import_out_out_of_state_import_out_out_of_state_import_out_out_of_state_import_out_out_of_state_import_out_out_of_state_import_out_out_of_state_import_out_out_out_out_out_out_out_out_out_ou	Online Development												
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steam	
unspecified_import	
LSE total supply (effective MW)	
Net capacity position (+ve = excess, -ve = shortfall) (effective MW)	

Load and Resource Table by Contract Status												
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
LSE reliability need (MW)												
ELCC by contract status (effective MW)												
Online												
Development												
Review												
PlannedExisting												
PlannedNew												
BTM PV												
LSE total supply (effective MW)												
Net capacity position (+ve = excess, -ve = shortfall) (effective MW)												

Attachment C [CONFIDENTIAL-REDACTED] UC Supporting Documents