

Step 1: Enter portfolio inputs for both portfolios from the Resource Data Template

Full Portfolio Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Values" option

Full Portfolio (Online + In-Development + Review + Planned)	Resource	2028	2030	2035	2040	2045	Units	Type
	Large Hydro	13	13	13	13	13	GWh	GHG-Free
	Imported Hydro	-	15	27	35	39	GWh	GHG-Free
	Asset Controlling Supplier	-	-	-	-	-	GWh	GHG-Free (Partial)
	Nuclear	25	25	25	25	25	GWh	GHG-Free
	Biogas	-	-	-	-	-	GWh	RPS Eligible
	Biomass	-	-	-	-	-	GWh	RPS Eligible
	Geothermal	4	3	43	43	42	GWh	RPS Eligible
	Small Hydro	3	2	2	3	1	GWh	RPS Eligible
	Wind Resources							
	Wind Baseline California	201	184	177	193	193	GWh	RPS Eligible
	Wind New PG&E	-	-	-	-	-	GWh	RPS Eligible
	Wind New SCE SDG&E	-	-	-	-	-	GWh	RPS Eligible
	Wind Pacific Northwest	-	-	-	-	-	GWh	RPS Eligible
	Wind Wyoming	-	-	-	-	-	GWh	RPS Eligible
	Wind New Mexico	-	-	39	39	39	GWh	RPS Eligible
	Wind Offshore Morro Bay	-	-	-	25	25	GWh	RPS Eligible
	Wind Offshore Humboldt	-	-	-	-	42	GWh	RPS Eligible
	Solar Resources							
	Solar Baseline California	117	87	69	55	53	GWh	RPS Eligible
	Solar New PG&E	-	-	-	-	-	GWh	RPS Eligible
	Solar New SCE SDG&E	-	147	186	219	219	GWh	RPS Eligible
	Solar Distributed	-	-	-	-	-	GWh	RPS Eligible
	Hybrid							
	Hybrid_or_Paired_Solar_and_Battery	-	-	-	-	-	GWh	RPS Eligible
	Storage & DR							
	Shed DR	-	-	-	-	-	MW	GHG-Free
	Pumped Storage	-	-	-	-	-	MW	n/a
	Battery Storage	248	738	842	930	924	MWh Energy Capacity	n/a
	User-Specified Profiles							
	Storage Resource Custom Profile	-	-	4	4	4	MW	n/a
	RPS Resource Custom Profile	-	-	-	-	-	GWh	RPS Eligible
	GHG-free non-RPS Resource	-	-	-	-	-	GWh	GHG-Free
	Coal							
	Coal	-	-	-	-	-	GWh	n/a

Online and In-Development Portfolio Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Values" option

Online + In-Development Only	Resource	2028	2030	2035	2040	2045	Units	RPS or GHG-Free
	Large Hydro	13	13	13	13	13	GWh	GHG-Free
	Imported Hydro	-	-	-	-	-	GWh	GHG-Free
	Asset Controlling Supplier	-	-	-	-	-	GWh	GHG-Free (Partial)
	Nuclear	25	25	25	25	25	GWh	GHG-Free
	Biogas	-	-	-	-	-	GWh	RPS
	Biomass	-	-	-	-	-	GWh	RPS
	Geothermal	2	2	30	26	25	GWh	RPS
	Small Hydro	2	1	1	1	-	GWh	RPS
	Wind Resources							
	Wind Baseline California	169	169	158	128	128	GWh	RPS
	Wind New PG&E	-	-	-	-	-	GWh	RPS
	Wind New SCE SDG&E	-	-	-	-	-	GWh	RPS
	Wind Pacific Northwest	-	-	-	-	-	GWh	RPS
	Wind Wyoming	-	-	-	-	-	GWh	RPS
	Wind New Mexico	-	-	-	-	-	GWh	RPS
	Wind Offshore Morro Bay	-	-	-	-	-	GWh	RPS
	Wind Offshore Humboldt	-	-	-	-	-	GWh	RPS
	Solar Resources							
	Solar Baseline California	65	61	38	2	-	GWh	RPS
	Solar New PG&E	-	-	-	-	-	GWh	RPS
	Solar New SCE SDG&E	-	-	-	-	-	GWh	RPS
	Solar Distributed	-	-	-	-	-	GWh	RPS
	Hybrid/Paired							
	Hybrid or Paired Solar and Battery	-	-	-	-	-	GWh	RPS
	Storage & DR							
	Shed DR	-	-	-	-	-	MW	GHG-Free
	Pumped Storage	-	-	-	-	-	MW	n/a
	Battery Storage	248	346	346	346	340	MWh Energy Capacity	n/a
	User-Specified Profiles							
	Storage Resource Custom Profile	-	-	-	-	-	MW	n/a
	RPS Resource Custom Profile	-	-	-	-	-	GWh	RPS
	GHG-free non-RPS Resource Custom Profile	-	-	-	-	-	GWh	GHG-Free
	Coal							
	Coal	-	-	-	-	-	GWh	n/a

Step 2: Select a portfolio to run view the results

Select a portfolio to run: Full Portfolio (Online + In-Development + Review + Planned)

Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Values" option

Resource	2028	2030	2035	2040	2045	Units	RPS or GHG-Free
Large Hydro	13	13	13	13	13	GWh	GHG-Free
Imported Hydro	-	15	27	35	39	GWh	GHG-Free
Asset Controlling Supplier	-	-	-	-	-	GWh	GHG-Free (Partial)
Nuclear	25	25	25	25	25	GWh	GHG-Free
Biogas	-	-	-	-	-	GWh	RPS
Biomass	-	-	-	-	-	GWh	RPS
Geothermal	4	3	43	43	42	GWh	RPS
Small Hydro	3	2	2	3	1	GWh	RPS

Wind Resources

Wind Baseline California	201	184	177	193	193	GWh	RPS
Wind New PG&E	-	-	-	-	-	GWh	RPS
Wind New SCE SDG&E	-	-	-	-	-	GWh	RPS
Wind Pacific Northwest	-	-	-	-	-	GWh	RPS
Wind Wyoming	-	-	-	-	-	GWh	RPS
Wind New Mexico	-	-	39	39	39	GWh	RPS
Wind Offshore Morro Bay	-	-	-	25	25	GWh	RPS
Wind Offshore Humboldt	-	-	-	-	42	GWh	RPS

Solar Resources

Solar Baseline California	117	87	69	55	53	GWh	RPS
Solar New PG&E	-	-	-	-	-	GWh	RPS
Solar New SCE SDG&E	-	147	186	219	219	GWh	RPS
Solar Distributed	-	-	-	-	-	GWh	RPS

Hybrid/Paired

Hybrid or Paired Solar and Battery	-	-	-	-	-	GWh	RPS
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Storage & DR

Shed DR	-	-	-	-	-	MW	GHG-Free
Pumped Storage	-	-	-	-	-	MW	n/a
Battery Storage	248	738	842	930	924	MWh Energy Capacity	n/a

User-Specified Profiles

Storage Resource Custom Profile	-	-	4	4	4	MW Power Capacity	n/a
RPS Resource Custom Profile	-	-	-	-	-	GWh	RPS
GHG-free non-RPS Resource Custom Profile	-	-	-	-	-	GWh	GHG-Free

Coal

Coal	-	-	-	-	-	GWh	n/a
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Calculated Share of IFM CHP - do not edit

IFM CHP	15	13	14	-	-	GWh	n/a
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Checks	2028	2030	2035	2040	2045
No negative supply inputs	TRUE	TRUE	TRUE	TRUE	TRUE
Storage Resource Custom Profile does not produce power on a net basis	TRUE	TRUE	TRUE	TRUE	TRUE
Storage Resource Custom Profile has values between -1 and 1	TRUE	TRUE	TRUE	TRUE	TRUE
Sum of hourly RPS Resource Custom Profile equals annual input	TRUE	TRUE	TRUE	TRUE	TRUE
Sum of hourly GHG-free non-RPS Resource Custom Profile equals annual input	TRUE	TRUE	TRUE	TRUE	TRUE

Demand Inputs

	Units	2028	2030	2035	2040	2045	Notes
Managed Retail Sales Forecast (assigned to LSE)	GWh	400.13	438.16	534.98	597.91	635.81	Must be entered regardless of demand modifiers selected. Includes impact of BTM PV, Energy Efficiency
Behind-The-Meter Photovoltaics (BTM PV) Forecast (assigned to LSE)	GWh	47	53	65	70	76	Measured at customer, not grossed up for T&D losses
Retail Sales without BTM PV reduction	GWh	448	491	600	668	711	Used to allocate demand modifiers
Behind-The-Meter Photovoltaics (BTM PV) grossed up for T&D losses	GWh	51	58	70	76	82	At generator bus-bar
Calculated share of CAISO system demand (% of Retail Sales)	%	0%	0%	0%	0%	0%	Do not edit

Commercial & Industrial Fraction of Baseline Demand	Use Custom?	Units	2028	2030	2035	2040	2045	Notes
Default C&I Percentage of Total		%	51%	52%	55%	55%	55%	Default, do not change. Does not include demand from Light Duty EVs.
Custom C&I Percentage of Total (OPTIONAL)	Yes	%	45%	45.00%	45.00%	45.00%	45.00%	Will be used instead of default if "Use Custom?" = Yes

Calculated Demand, based on sales-weighted share of total from IEPR	Units	2028	2030	2035	2040	2045	Notes
Baseline net energy for load	GWh	435	441	463	480	488	Grossed up for T&D losses; demand met by BTM CHP excluded
Electric Vehicle Load	GWh	28	48	104	147	176	Grossed up for T&D losses
Building Electrification	GWh	13	24	52	62	71	Grossed up for T&D losses
Energy Efficiency	GWh	(12)	(14)	(19)	(18)	(19)	Grossed up for T&D losses
Data Center Load	GWh	21	34	48	51	52	Grossed up for T&D losses
Climate Change Impact Load Increases	GWh	1	2	3	5	6	Grossed up for T&D losses
Climate Change Impact Load Decreases	GWh	(0)	(0)	(1)	(1)	(1)	Grossed up for T&D losses
Behind-The-Meter Photovoltaics (BTM PV)	GWh	(51)	(58)	(70)	(76)	(82)	Grossed up for T&D losses
Behind-The-Meter Storage Losses (BTM Storage)	GWh	1	1	1	1	1	Grossed up for T&D losses
Behind-The-Meter Storage Capacity (BTM Storage)	Nameplate MW	7	9	11	12	14	For information only

Custom Demand Inputs (OPTIONAL; overwrites sales-weighted IEPR values from Calculated Demand section)	Use Custom?	Units	2028	2030	2035	2040	2045	Notes
Baseline net energy for load	No	GWh						To overwrite, set "Use Custom" to "Yes" and input forecast. For use in Alternative Plans only.
Electric Vehicle Load	No	GWh						Custom demand values should be grossed up for T&D losses.
Building Electrification	No	GWh						User-specified demand profiles should be input in the "Custom Profiles" tab.
Energy Efficiency	No	GWh						Energy efficiency and BTM PV subtract from demand and therefore should be entered as negative values.
Data Center Load	No	GWh						Demand categories should be non-overlapping (e.g., baseline net energy for load does not include EV load, climate change impacts, etc.)
Climate Change Impact Load Increases	No	GWh						
Climate Change Impact Load Decreases	No	GWh						
Behind-The-Meter Photovoltaics (BTM PV)	No	GWh						
Behind-The-Meter Storage Capacity (BTM Storage)	No	Nameplate MW						Custom BTM storage should be entered in terms of Nameplate MW
Behind-The-Meter Storage Losses (BTM Storage)		GWh						

Active Demand Inputs	Source	Units	2028	2030	2035	2040	2045	Notes
Baseline net energy for load	IEPR	GWh	435	441	463	480	488	Grossed up for T&D losses; demand met by BTM CHP excluded
Non-commercial/industrial portion of baseline (included in baseline total)	Custom	GWh	239	242	255	264	268	Grossed up for T&D losses; demand met by BTM CHP excluded
Commercial/industrial portion of baseline (included in baseline total)	Custom	GWh	196	198	208	216	220	Grossed up for T&D losses; demand met by BTM CHP excluded
Electric Vehicle Load	IEPR	GWh	28	48	104	147	176	Grossed up for T&D losses
Building Electrification	IEPR	GWh	13	24	52	62	71	Grossed up for T&D losses
Energy Efficiency	IEPR	GWh	(12)	(14)	(19)	(18)	(19)	Grossed up for T&D losses
Data Center Load	IEPR	GWh	21	34	48	51	52	Grossed up for T&D losses
Climate Change Impact Load Increases	IEPR	GWh	1	2	3	5	6	Grossed up for T&D losses
Climate Change Impact Load Decreases	IEPR	GWh	(0)	(0)	(1)	(1)	(1)	Grossed up for T&D losses
Behind-The-Meter Photovoltaics (BTM PV)	IEPR	GWh	(51)	(58)	(70)	(76)	(82)	Grossed up for T&D losses
Behind-The-Meter Storage Losses (BTM Storage)	IEPR	GWh	1	1	1	1	1	Grossed up for T&D losses

Calculated demand at utility-scale generator bus-bar	GWh	435	477	582	651	692	Total of "Active Demand Inputs"
Total Load (demand at utility-scale generator bus-bar + BTM PV)	GWh	487	534	652	727	774	For reference

IFM CHP Calculation			2028	2030	2035	2040	2045	
CASIO-wide In front of the meter (IFM) Combined Heat and Power (CHP) generation		GWh	8347	7644	7705	0	0	Input data - do not change. Values are from SERVIM dispatch
LSE share of IFM CHP		GWh	15	13	14	-	-	Calculation - do not change

Checks	2028	2030	2035	2040	2045
Correct sign (positive/negative) on demand inputs	TRUE	TRUE	TRUE	TRUE	TRUE
If custom C&I percentage is used, positive percentage is used	TRUE	TRUE	TRUE	TRUE	TRUE

Custom Demand Shapes (OPTIONAL; overwrites default demand shapes)	Custom Hourly Demand Profiles
Use Custom Shape?	No No No No No No No No No

	2030	2035	2040	2045	2030	2035	2040	2045	2030	2035	2040	2045	2030	2035	2040	2045
LSEs within Utility Territory	2030 GHG Emissions Benchmark (MMT)	2035 GHG Emissions Benchmark (MMT)	2040 GHG Emissions Benchmark (MMT)	2045 GHG Emissions Benchmark (MMT)	2030 DA Sales (GWh)	2035 DA Sales (GWh)	2040 DA Sales (GWh)	2045 DA Sales (GWh)	ESP 2030 sales within each IOU territory (GWh)	ESP 2035 sales within each IOU territory (GWh)	ESP 2040 sales within each IOU territory (GWh)	ESP 2045 sales within each IOU territory (GWh)	ESP 2030 benchmark for each IOU territory (MMT)	ESP 2035 benchmark for each IOU territory (MMT)	ESP 2040 benchmark for each IOU territory (MMT)	ESP 2045 benchmark for each IOU territory (MMT)
Pacific Gas & Electric Company (Direct Access)	0.9185	0.5888	0.4447	0.2156	11,393	11,393	11,393	11,393					0.000	0.000	0.000	0.000
Southern California Edison Company (Direct Access)	1.1123	1.1123	1.1123	1.1123	12,230	12,230	12,230	12,230					0.000	0.000	0.000	0.000
San Diego Gas & Electric Company (Direct Access)	0.4392	0.4392	0.4392	0.4392	3,942	3,942	3,942	3,942					0.000	0.000	0.000	0.000
TOTAL									0	0	0	0	0.000	0.000	0.000	0.000

Each ESP is required to calculate its own confidential GHG Emissions Benchmark based on its 2030, 2035, 2040, and 2045 load share within the host IOU's territory. For any ESP that serves load in more than one IOU service territory, that ESP should add up the separate GHG Emissions Benchmarks calculated based on its share of direct access load for each IOU service territory to result in a single benchmark. When filling out Columns F through 2045 -- "ESP 20## load within each IOU territory" -- each ESP should utilize the confidential load forecast communicated to it by Energy Division staff.

Emissions Summary

Emissions Total		Unit	2028	2030	2035	2040	2045	Notes
CO ₂		MMt/yr	0.036	0.002	(0.011)	(0.026)	(0.005)	Includes both in-CAISO and import emissions
PM2.5		tonnes/yr	2.2	0.1	(1.0)	(1.4)	(0.3)	Only In-CAISO emissions
SO ₂		tonnes/yr	0.2	0.0	(0.1)	(0.1)	(0.0)	Only In-CAISO emissions
NOx		tonnes/yr	3.4	1.5	(0.0)	(0.1)	(0.3)	Only In-CAISO emissions

Emissions by resource type

CO ₂		Unit	2028	2030	2035	2040	2045	Notes
Coal		MMt/yr	-	-	-	-	-	Included in GHG emissions total
IFM CHP		MMt/yr	0.01	0.01	0.01	-	-	
Biogas		MMt/yr	-	-	-	-	-	
Biomass		MMt/yr	-	-	-	-	-	
System Power Unadjusted		MMt/yr	0.03	(0.01)	(0.02)	(0.02)	(0.01)	Includes emissions from in-CAISO dispatchable gas and unspecified imports
System Power		MMt/yr	0.03	(0.01)	(0.02)	(0.02)	(0.01)	Includes emissions from in-CAISO dispatchable gas and unspecified imports. After CSP - RESOLVE adjustment.
Asset Controlling Supplier		MMt/yr	-	-	-	-	-	
Total		MMt/yr	0.04	0.00	(0.01)	(0.02)	(0.01)	Includes both in-CAISO and import emissions
Average emissions intensity	IC02/MWh		0.089	0.004	(0.012)	(0.019)	(0.009)	Emissions per MWh of sales
Oversupply Emissions Credits		MMt/yr	0.02	0.05	0.06	0.06	0.04	When hourly supply exceeds hourly load and system power is on the margin, LSE receives credit at the system power emissions rate. Impact included in Total.

PM2.5		Unit	2028	2030	2035	2040	2045	Notes
Coal		tonnes/yr	-	-	-	-	-	Information only, not included in total
IFM CHP		tonnes/yr	0	0	0	-	-	
Biogas		tonnes/yr	-	-	-	-	-	
Biomass		tonnes/yr	-	-	-	-	-	
System Power		tonnes/yr	2	(0)	(1)	(1)	(0)	In-CAISO emissions only - unspecified import emissions excluded
Total		tonnes/yr	2	0	(1)	(1)	(0)	Only In-CAISO emissions
Average emissions intensity	kg/MWh		0.0055	0.0001	(0.0018)	(0.0021)	(0.0005)	Emissions per MWh of sales

SO ₂		Unit	2028	2030	2035	2040	2045	Notes
Coal		tonnes/yr	-	-	-	-	-	Information only, not included in total
IFM CHP		tonnes/yr	0	0	0	-	-	
Biogas		tonnes/yr	-	-	-	-	-	
Biomass		tonnes/yr	-	-	-	-	-	
System Power		tonnes/yr	0	(0)	(0)	(0)	(0)	In-CAISO emissions only - unspecified import emissions excluded
Total		tonnes/yr	0	0	(0)	(0)	(0)	Only In-CAISO emissions
Average emissions intensity	kg/MWh		0.0095	0.0000	(0.0001)	(0.0002)	(0.0000)	Emissions per MWh of sales

NOx		Unit	2028	2030	2035	2040	2045	Notes
Coal		tonnes/yr	-	-	-	-	-	Information only, not included in total
IFM CHP		tonnes/yr	1	1	1	-	-	
Biogas		tonnes/yr	-	-	-	-	-	
Biomass		tonnes/yr	-	-	-	-	-	
System Power		tonnes/yr	2	0	(1)	(0)	(0)	In-CAISO emissions only - unspecified import emissions excluded
Total		tonnes/yr	3	2	(0)	(0)	(0)	Only In-CAISO emissions
Average emissions intensity	kg/MWh		0.0086	0.0034	(0.0009)	(0.0002)	(0.0005)	Emissions per MWh of sales

Supply and Demand Balance

Demand Summary		Unit	2028	2030	2035	2040	2045	Notes
Managed Retail Sales Forecast (assigned to LSE)		GWh	400	438	535	598	636	Sales forecast (before T&D losses increase demand at generator bus-bar)
Baseline Demand, non-C&I		GWh	239	242	255	264	268	
Baseline Demand, C&I		GWh	196	198	208	216	220	
Electric Vehicle Load		GWh	28	48	104	147	176	
Building Electrification		GWh	13	24	52	62	71	
Energy Efficiency		GWh	(12)	(14)	(19)	(18)	(19)	Summary of active inputs from Demand Inputs tab
Data Center Load		GWh	21	34	48	51	52	
Climate Change Impact		GWh	1	2	3	5	6	
BTM PV		GWh	(51)	(58)	(70)	(76)	(82)	
Demand (at generator bus-bar)		GWh	435	477	582	651	692	

Supply Summary		Unit	2028	2030	2035	2040	2045	Notes
Large Hydro		GWh	13	13	13	13	13	
Imported Hydro		GWh	-	15	27	35	39	
Asset Controlling Supplier		GWh	-	-	-	-	-	
Nuclear		GWh	25	25	25	25	25	
Biogas		GWh	-	-	-	-	-	
Biomass		GWh	-	-	-	-	-	
Geothermal		GWh	4	3	43	43	42	
Small Hydro		GWh	3	2	2	3	2	
Wind CAISO		GWh	201	184	177	193	193	
Wind Out Of State		GWh	-	-	39	39	39	Wind and solar values represent production potential (pre-curtailment).
Wind Offshore		GWh	-	-	-	25	67	Curtailment is calculated at the portfolio level (as opposed to the resource level), and is included as a line item below
Solar Utility Scale		GWh	117	233	255	274	272	
Solar Distributed		GWh	-	-	-	-	-	Distributed solar generation that is in front of the meter
Hybrid or Paired Solar and Battery		GWh	-	-	-	-	-	
Shed DR		GWh	-	-	-	-	-	
Pumped Storage		GWh	-	-	-	-	-	Negative because storage losses represent net negative energy production
Battery Storage		GWh	(12)	(38)	(44)	(44)	(47)	Negative because storage losses represent net negative energy production
Storage Resource Custom Profile		GWh	-	-	(3)	(4)	(4)	Negative because storage losses represent net negative energy production
RPS Resource Custom Profile		GWh	-	-	-	-	-	
GHG-free non-RPS Resource Custom Profile		GWh	-	-	-	-	-	
Coal		GWh	-	-	-	-	-	
IFM CHP		GWh	15	13	14	-	-	

Supply Demand Balance Summary		Unit	2028	2030	2035	2040	2045	Notes
LSE Supply, before curtailment and exports		GWh	365	452	548	598	641	Represents LSE's net power production, before curtailment and exports reduce the power available to displace CAISO dispatchable gas/unspecified imports
Net Purchases, before curtailment and exports		GWh	70	25	34	51	51	The net system power that the LSE would consume (positive = consume from system, negative = supply to system) if dispatchable gas/unspecified imports were on the margin at the system level in all hours. For information only - not directly comparable to production from an LSE's RPS-eligible resources.
Curtailment		GWh	(15)	(11)	(17)	(20)	(25)	Power that, if supplied to the system, would not displace CAISO dispatchable gas and/or unspecified import emissions and would instead be curtailed
Exports		GWh	(5)	(4)	(2)	(2)	(3)	Power that, if supplied to the system, would not displace CAISO dispatchable gas and/or unspecified import emissions and would instead be exported
Zero Emissions Power From System		GWh	15	67	110	140	144	Power supplied to meet LSE demand that does not incur emissions. Oversupply conditions at the system level result in surplus zero emissions power in some hours.
Net System Power (incurs emissions)		GWh	75	(18)	(57)	(65)	(65)	Power supplied by the system (or sent back to the system from if negative) in hours when CAISO dispatchable gas and/or unspecified imports are on the margin. The net system power produced or consumed is multiplied by the system power factor.
Check: Supply equals demand			TRUE	TRUE	TRUE	TRUE	TRUE	

Renewable and GHG-Free %		Unit	2028	2030	2035	2040	2045	Notes
Retail Sales		GWh	400	438	535	598	636	
RPS-Eligible Delivered Renewable		GWh	310	402	499	558	589	Represents delivered renewable energy. Not directly comparable to production from an LSE's RPS-eligible resources.
GHG-free		GWh	368	522	675	770	810	A small fraction of Asset Controlling Supplier imports are not counted as GHG-free
RPS-Eligible Delivered Renewable Percentage	% of retail sales		77%	92%	93%	93%	93%	Represents delivered renewable energy. Not directly comparable to production from an LSE's RPS-eligible resources.
GHG-free Percentage	% of retail sales		92%	119%	126%	129%	127%	