Data Template Instructions

New_Resources Column Heading
LSE_Name
New_Resource_Type
Other_New_Description
Location
Year_Begin
Year_End
Nameplate_MW
AnnualEnergy_GWh
Tech_Sub_Type
SolarPV_InverterLoading
Storage_Depth_MWh
Storage_Efficiency

FCDS
New_Rsrc_Total_Fixed_Costs
New_Tx_Name
New_Tx_LSE_Share_MW
New_Tx_Total_MW
New_Tx_LSE_Share_Fixed_Costs
New_Tx_Total_Fixed_Costs

On the "New_Resources" tab, please report each new resource (chosen from among RESOLVE candidate resource types or inc Other_New) that the LSE plans to invest in through the IRP planning horizon. These are analogous to "candidate" resources a RESOLVE model, and incremental to any resource that was reported in the Baseline Resource Data Template, i.e. "new steel ir For situations where the LSE is reporting a future contract with unknown existing resource(s) (e.g. a new RA contract with an e comes off its existing contract in a future year), do NOT report it in this workbook, rather, report it in the Baseline Resource D On the "New_Resources" tab, also report the total fixed cost of each new resource. Column heading definitions are below.

On the "New_Costs" tab, please report cost projections if applicable to the reporting entity. These are costs associated with t the "New_Resources" tab and incremental to any costs reported in the Baseline Resource Data Template. Report all costs in 2 using the IEPR dollar deflator series posted to the IRP Filing Materials and Templates webpage. Explain the composition of ea in the text body of the Standard LSE Plan Template. Incremental revenue requirement should be the sum of the other compo worksheet.

If including new load or load modifying resource information as part of a portfolio reported in the Standard LSE Plan Template instructions on the "Instructions_IEPR_Forms" tab of this workbook to report that data.

Many cells include data validation that requires the LSE to populate cells with only the allowed values shown in the cell's drop Data entry may be done manually, with copy/paste, or with a script - but only allowed values for that cell must be entered - th ensuring clean and reconciliable data. Cells must contain only text or numerical data. Do not use the "Insert Comment" featu comment on specific cells. Instead please comment on specific cells in the text body of the Standard LSE Plan Template.

Instruction and Description

Select from the drop-down menu the Load Serving Entity (LSE) name. This column must not be blank.

Select a RESOLVE candidate resource type from the dropdown. Select "Other_New" if LSE's selected resource does not match RESOLVE candidate resource types. This column must not be blank.

Default: leave blank. If LSE selects "Other_New" under column New_Resource_Type, then fill in this cell with a description of technology and operational attributes.

Select from the drop down menu the resource location. If the location is inside the CAISO balancing area, then select the loca or select "CAISO_System" if not within any local capacity area. If the location is outside the CAISO balancing area, then select non-CAISO location. This column must not be blank.

Expected online year in yyyy format. This column must not be blank.

Expected end of long-term contract or retirement year in yyyy format. Enter 2050 if no end date. This column must not be bl

Enter the resource's nameplate capacity value (MW). The nameplate capacity is the maximum rated AC output of the unit. Th not be blank.

Enter the resource's expected annual energy production (GWh). This column must not be blank.

If applicable to the type of technology, select the sub-type from the dropdown (e.g. fixed vs. tracking solar). Otherwise leave

If resource is solar PV, enter the ratio of installed DC panel capacity to installed AC inverter capacity (unitless number betwee Otherwise leave blank.

If resource is energy storage, enter the discharge capacity in MWh at max output. Otherwise leave blank.

If resource is energy storage, enter the round-trip efficiency (unitless number between 0 and 1). Otherwise leave blank.

| 1 = This resource is fully deliverable; 0 = This resource is energy-only. This column must not be blank. |
| In 2016 $, enter the total fixed cost of this new resource. This column must not be blank. |
| If new transmission is required for this new resource, enter the new transmission project name/identifier. Otherwise leave bl |
| If new transmission is required for this new resource, enter the LSE's share in MW of the total new transmission line capacity. leave blank. |
| If new transmission is required for this new resource, enter the total new transmission line capacity in MW. Otherwise leave l |
| If new transmission is required for this new resource, enter in 2016 $ the LSE's share of the total fixed cost of the new transmi by this new resource. Otherwise leave blank. |
| If new transmission is required for this new resource, enter in 2016 $ the total fixed cost of the new transmission triggered by resource. Otherwise leave blank. |

If LSEs use different load and load modifier assumptions as part of any Alternate portfolios, the LSE should report that information using the standard IEPR filing form templates associated with that information, included as additional tabs within this workbook, one tab per IEPR Form. The LSE should clearly identify the data that differs from the forms it submitted to the CEC in 2017 as part of the 2017 IEPR process. The table below indicates which standard IEPR filing forms apply to which entity. IEPR Forms may be downloaded here:

CEC IEPR Forms   http://docketpublic.energy.ca.gov/PublicDocuments/17-IEPR-03/TN215680-1_2
CEC Instructions   http://docketpublic.energy.ca.gov/PublicDocuments/17-IEPR-03/TN215675_20

Form 1.1a	RETAIL SALES OF ELECTRICITY BY CLASS OR SECTOR (GWh) Bundled & Direct Access
Form 1.1b	RETAIL SALES OF ELECTRICITY BY CLASS OR SECTOR (GWh) Bundled Customers
Form 1.2	DISTRIBUTION AREA NET ELECTRICITY FOR GENERATION LOAD (GWh)
Form 1.3	LSE COINCIDENT PEAK DEMAND BY SECTOR (Bundled Customers)
Form 1.4	DISTRIBUTION AREA COINCIDENT PEAK DEMAND
Form 3.2	ENERGY EFFICIENCY - CUMULATIVE INCREMENTAL IMPACTS
Form 3.3	DISTRIBUTED GENERATION - CUMULATIVE INCREMENTAL IMPACTS
Form 3.4	DEMAND RESPONSE - CUMULATIVE INCREMENTAL IMPACTS
Form 4	REPORT ON FORECAST METHODS AND MODELS
Form 6	UNCOMMITTED DEMAND-SIDE PROGRAM METHODOLOGY
Form 7.1	ESP DEMAND FORECAST
Form 7.2	CCA DEMAND FORECAST

20170131T142702_FINAL_2017_Electricity_Demand_Forecast_Forms.xlsx
170131T111216_FINAL_Forms_and_Instructions_for_Submitting_Electricity_Demand.pdf

IOU	CCA	ESP
X		
X		
X		
X		
X		
X		
X		
X		
X	X	
X		
		X
	X	

LSE_Name	New_Resource_Type	Other_New_Description	Location	Year_Begin	Year_End	Nameplate_MW	AnnualEnergy_GWh	Tech_Sub_Type	SolarPV_InverterLoading	Storage_Depth_MWh	Storage_Efficiency	FCDS	New_Rsrc_Total_Fixed_Costs	New_Tx_Name	New_Tx_LSE_Share_MW	New_Tx_Total_MW	New_Tx_LSE_Share_Fixed_Costs	New_Tx_Total_Fixed_Costs
East Bay Community Energy	Riverside_East_Palm_Springs_Wind		CAISO_System	2021	2045	100	286					1	NA					
East Bay Community Energy	Solano_Wind		CAISO_System	2021	2045	100	264					1	NA					
East Bay Community Energy	Central_Valley_North_Los_Banos_Solar		CAISO_System	2021	2045	280	726	Solar_Track1axis	1.30			1	NA					
East Bay Community Energy	Central_Valley_North_Los_Banos_Solar		CAISO_System	2021	2045	65	168	Solar_Track1axis	1.30			1	NA					
East Bay Community Energy	Central_Valley_North_Los_Banos_Solar		CAISO_System	2022	2046	270	700	Solar_Track1axis	1.30			1	NA					
East Bay Community Energy	Central_Valley_North_Los_Banos_Solar		CAISO_System	2023	2047	300	777	Solar_Track1axis	1.30			1	NA					
East Bay Community Energy	CAISO_New_Li_Battery		CAISO_System	2021	2045	13	0			52	0.85	1	NA					

Cost Category	2018	2019	2020	2021	2022	2023
Incremental Distribution						
Incremental Transmission						
Incremental Generation						
Incremental Demand Side Programs						
Incremental Other						
Incremental Revenue Requirement						

2024	2025	2026	2027	2028	2029	2030

LSE_Type	LSE_Name_Long	LSE_Name_Short
ESP	3 Phases Renewables Inc	3PhasesRenewable
ESP	Agera Energy LLC	AgeraEnergy
ESP	American Powernet Management	AmericanPowerNetM
Co-op	Anza Electric Cooperative	AnzaElecCoop
CCA	Apple Valley Choice Energy	AppleVlyChoiceEn
Utility	Bear Valley Electric Service	BearValley
ESP	Calpine Energy Solutions LLC	CalpineEnergySoln
ESP	Calpine Poweramerica-CA LLC	CalpinePowerAmCA
CCA	Clean Power San Francisco	CleanPowerSF
ESP	Commercial Energy of California	CommercialEnergyCA
ESP	Constellation New Energy Inc	ConstellationNewEn
CCA	Desert Community Energy	DesertCommunityEn
ESP	Direct Energy Business	DirectEnergyBusiness
CCA	East Bay Community Energy	EastBayCommunityEn
ESP	EDF Industrial Power Services CA LLC	EDFIndustrialPowerSrv
ESP	Just Energy Solutions Inc	JustEnergySolutions
CCA	King City CCA	KingCityCCA
CCA	Lancaster Choice Energy	LancasterChoiceEn
Utility	Liberty Utilities	LibertyUtilities
CCA	Los Angeles Community Choice	LosAngelCommChoice
CCA	Marin Clean Energy	MarinCleanEnergy
CCA	Monterey Bay Community Power	MontereyBayCommPwr
Utility	Pacific Gas and Electric	PacificGasAndElectric
Utility	PacifiCorp	PacifiCorp
CCA	Peninsula Clean Energy	PeninsulaCleanEnAuth
CCA	Pico Rivera Innovative Municipal Energy	PicoRiveraInnovMuniEn
ESP	Pilot Power Group Inc	PilotPowerGroup
CCA	Pioneer Community Energy	PioneerCommunityEn
Co-op	Plumas Sierra Rural Elec Coop	PlumasSierraCoop
CCA	Rancho Mirage Energy Authority	RanchoMirageEnAuth
CCA	Redwood Coast Energy	RedwoodCoastEnergy
Utility	San Diego Gas and Electric	SanDiegoGasAndElectric
CCA	San Jacinto Power	SanJacintoPower
CCA	San Jose City	SanJoseCity
ESP	Shell Energy North America	ShellEnergyNorthAm
CCA	Silicon Valley Clean Energy	SiliconVlyCleanEnAuth
CCA	Solana Energy Alliance	SolanaEnergyAlliance
CCA	Sonoma Clean Power	SonomaCleanPower
Utility	Southern California Edison	SouthernCalEdison
Co-op	Surprise Valley Electric Corp	SurpriseValleyElectric
ESP	The Regents of the University of California	TheRegentsUnivCA
ESP	Tiger Natural Gas Inc	TigerNaturalGas

CCA	Valley Clean Energy Alliance	ValleyCleanEnAlliance
Co-op	Valley Electric Association	ValleyElectricAssoc

New_Resource_Type	Location	Year_Begin	Year_End
CAISO_New_Advanced_CCGT	BigCreekVentura	yyyy	yyyy
CAISO_New_Aero_CT	GreaterBayArea	2018	2018
CAISO_New_Conventional_DR	LABasin	2050	2050
CAISO_New_Flexible_Load_Shift	Other_PGE		
CAISO_New_Flow_Battery	SanDiegoImperialValley		
CAISO_New_Li_Battery	CAISO_System		
CAISO_New_Pumped_Storage	Non_CAISO_In_State		
CAISO_New_Reciprocating_Engine	Out_Of_State		
CAISO_New_Small_Hydro			
Northern_California_Solar			
Solano_Solar			
Central_Valley_North_Los_Banos_Solar			
Westlands_Solar			
Greater_Carrizo_Solar			
Tehachapi_Solar			
Kramer_Inyokern_Solar			
Mountain_Pass_El_Dorado_Solar			
Southern_California_Desert_Solar			
Riverside_East_Palm_Springs_Solar			
Greater_Imperial_Solar			
Distributed_Solar			
Baja_California_Solar			
Utah_Solar			
Southern_Nevada_Solar			
Arizona_Solar			
New_Mexico_Solar			
Northern_California_Wind			
Solano_Wind			
Central_Valley_North_Los_Banos_Wind			
Greater_Carrizo_Wind			
Tehachapi_Wind			
Kramer_Inyokern_Wind			
Southern_California_Desert_Wind			
Riverside_East_Palm_Springs_Wind			
Greater_Imperial_Wind			
Distributed_Wind			
Baja_California_Wind			
Pacific_Northwest_Wind			
NW_Ext_Tx_WIND			
Idaho_Wind			
Utah_Wind			
Wyoming_Wind			

Southern_Nevada_Wind
Arizona_Wind
New_Mexico_Wind
SW_Ext_Tx_Wind
InState_Biomass
Greater_Imperial_Geothermal
Northern_California_Geothermal
Pacific_Northwest_Geothermal
Southern_Nevada_Geothermal
Other_New

Tech_Sub_Type	SolarPV_InverterLoading	Storage_Efficiency	FCDS
Solar_FixedTilt	1 <= R <= 2	0 <= E <= 1	0 or 1
Solar_Track1axis		1	0	0
Solar_Track2axis		2	1	1
Solar_Thermal				