

## Location and Size of Profiles Used in Hourly Analysis

Description of information included in the following tables.

Column Heading	Description
Wind/Solar Locations	Refers to the location of the wind/solar generation that the profiles represent.
MW/Profile by Case (Values used in Hourly Profiling)	Refers to the size of the renewable plants in MW for each location for each of the cases studied (33%, 27.5%, Out of State (OOS), High Distributed Generation (HiDG), and 20%).
Profile Name	Nexant's unique name assigned to each profile.
Geographical Location (Latitude, Longitude)	Latitude and Longitude associated with the NREL profile data.
NREL No.	NREL's unique number for the wind and solar profile data.

## Location and Size of Profiles Used in the Analysis

Wind Locations	MW/Profile by Case (Values used in Hourly Profiling)					Profile Name	Geographical Location		NREL Number
	33%	27.5%	OOS	HiDG	20%		Latitude	Longitude	
<i>Fairmont</i>	621					Fairmont_W1	34.59	-118.22	2301
	621					Fairmont_W2	34.69	-118.34	2540
<i>Mountain Pass</i>	169	169				Mountain_Pass_W	35.58	-115.04	5680
<i>Needles</i>	455	455				Needles_W	35.03	-114.91	3311
<i>San Bernardino-Lucerne</i>	6		79			San_Bernardino-Lucerne_W	34.41	-117.06	2006
<i>San Diego-Imperial North</i>	195	195	195	195	152	San_Diego-Imperial_North_W	33.11	-116.59	30575
<i>Solano</i>			894			Solano_W	37.81	-121.62	9388
<i>Tehachapi</i>	705	705	705	705	705	Tehachapi_W1	35.21	-118.11	4100
	705	705	705	705	705	Tehachapi_W2	35.06	-118.39	3475
	705	705	705	705	705	Tehachapi_W3	35.42	-118.11	4930
	705	705	705	705	705	Tehachapi_W4	35.46	-118.06	5079
<i>Oregon</i>	437	437	437	437	437	Oregon_W	43.88	-121.17	24929
<i>Washington</i>	266	266	266	266	266	Washington_W	46.43	-117.46	28385
<i>Montana</i>	709	553	709	513	513	Montana_W	45.73	-109.99	27054
<i>Alberta</i>	690	534	690	494	494	Alberta_W	48.93	-112.17	31970
<i>New Mexico</i>	196	40	196			New_Mexico_W	35.28	-105.36	4356
<i>Northwest</i>	420	86	420			Northwest_W	42.49	-120.46	21430
<i>Utah</i>	386	230	386	190	190	Utah_W	38.58	-113.96	10272
<i>Wyoming</i>	196	40	943			Wyoming_W1	42.41	-107.41	20858
			747			Wyoming_W2	41.83	-105.04	17840
			747			Wyoming_W3	42.66	-105.67	22253
			747			Wyoming_W4	42.21	-105.29	19924
<i>Reno Area</i>			441			Reno_W	39.64	-119.97	11567
<i>Distributed Wind PGE</i>	150	150	150	150	150	PGE_W	40.29	-120.56	12693

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Solar Thermal Locations	MW/ Profile by Case (values used in Hourly Profiling)					Profile Name	Geographical Location		NREL Number
	33%	27.5%	OOS	HiDG	20%		Latitude	Longitude	
<i>Barstow</i>	96	96	96	96	96	Barstow_ST	34.85	-116.8	723815
<i>Carrizo North/Fairmont</i>	401	201				Carrizo_North_Fairmont_ST	35.667	-120.633	723965
<i>Kramer</i>	768	101				Kramer_ST1	34.9	-117.867	723810
	768					Kramer_ST2	34.633	-118.083	723820
<i>Mountain Pass</i>	660	660				Mountain_Pass_ST1	36.083	-115.15	723860
	660	660				Mountain_Pass_ST2	35.667	-117.833	723826
<i>Needles</i>	606	606				Needles_ST	34.767	-114.617	723805
<i>Out-of-State (AZ)</i>	534	534	534	0	0	Out-of-State_(AZ)_ST	32.883	-112.717	747240
<i>Riverside East</i>	1005	1005	500	500	5	Riverside_East_ST1	33.617	-114.717	747188
	1005	1005	500	500	5	Riverside_East_ST2	32.833	-115.583	747185
<i>San Bernardino - Lucerne</i>	9		124			San_Bernardino-Lucerne_ST	34.3	-116.167	690150

## Location and Size of Profiles Used in the Analysis

Solar PV Locations	MW/ Profile by Case (values used in Hourly Profiling)					Profile Name	Geographical Location		NREL Number
	33%	27.5%	OOS	HiDG	20%		Latitude	Longitude	
<i>Carrizo North</i>	597	597	0	0	0	Carrizo_North_PV_T1	35.233	-120.633	722897
	597	597	0	0	0	Carrizo_North_PV_T2	36.333	-119.95	747020
<i>Fairmont, Imperial North, Kramer, San Bernardino-Lucerne</i>	533	232	202	193	156	FIKS_PV	33.933	-116.967	722867
<i>Mountain Pass/Tehachapi PV</i>	417	417	156	156	156	Mountain_Pass-Tehachapi_PV_T	34.733	-118.217	723816
<i>Riverside East</i>	1000	1000	512	512		Riverside_East_PV_T	33.833	-116.5	722868
<i>Distributed Solar</i>	10	10	10	831	10	PGE_Solar_PV_NT1	36.783	-119.717	723890
	10	10	10	831	10	PGE_Solar_PV_NT2	37.7	-122.217	724930
				668		SCE_Solar_PV_NT1	35.433	-119.05	723840
				871		SCE_Solar_PV_NT2	33.683	-117.867	722977
				871		SCE_Solar_PV_NT3	34.067	-117.65	722865
				871		SDG&E_PV_NT	32.733	-117.167	722900
				668		SMUD_Solar_PV_NT	38.5	-121.5	724830
				486		LADWP_Solar_PV_NT	33.933	-118.4	722950
<i>Distributed Solar (behind the meter)</i>	219	219	219	219	219	PGE_Solar_PV_NT1	36.783	-119.717	723890
	219	219	219	219	219	PGE_Solar_PV_NT2	37.7	-122.217	724930
	219	219	219	219	219	SCE_Solar_PV_NT1	35.433	-119.05	723840
	219	219	219	219	219	SCE_Solar_PV_NT2	33.683	-117.867	722977
	219	219	219	219	219	SCE_Solar_PV_NT3	34.067	-117.65	722865
	219	219	219	219	219	SDG&E_PV_NT	32.733	-117.167	722900
	219	219	219	219	219	SMUD_Solar_PV_NT	38.5	-121.5	724830
	219	219	219	219	219	LADWP_Solar_PV_NT	33.933	-118.4	722950
<i>Remote DG</i>				788		PGE_DG_PV_T1	40.517	-122.317	725920
				788		PGE_DG_PV_T2	37.283	-120.517	724815
				788		PGE_DG_PV_T3	39.133	-121.433	724837
				788		PGE_DG_PV_T4	37.9	-121.233	724920
				1170		SCE_DG_PV_T1	34.433	-119.85	723925
				960		SCE_DG_PV_T2	36.317	-119.4	723896
				960		SCE_DG_PV_T3	33.95	-117.45	722869
				960		SDG&E_DG_PV_T	33.133	-117.283	722927
				1260		SMUD_DG_PV_T	38.7	-121.583	724839
				540		LADWP_DG_PV_T	34.217	-118.483	722886