

	A	B	C	D	E	F
1	Composite - RPS Response Sheet - August, 15th Meeting				Solar Absorption Chilling	
2						
3	SOURCE		Company Name:		Composite	
4			Applicable Utility Service Area	(if any)	Statewide	
5			Energy Resource:	(Individual Type)	Solar Absorption Chilling	
6			Energy Resource Type:	(Category)	Renewable	
7			Resource Scale	(Unit or Aggregate)	Aggregate	
8			Unit Status	(Existing or Planning)	Planning	
9						
10	COMMERCIAL AVAILABILITY		Typical Unit Annual Capacity Rating	(MW)	875	
11			Earliest Commercial In-Service Date	(Year)	2009	
12			Typical Construction & Permitting Time	(Years)	0.5	
13			Useful Life of Unit	(Years)	30	
14			Fuel Type		Solar Energy	
15						
16	PERFORMANCE CHARACTERISTICS		Contribution to Summer Peak Demand	(MW)	788	
17			Contribution to Winter Peak Demand	(MW)	0	
18			Average Annual Heat Rate	(BTU/kWh)	n/a	
19			Equivalent Availability Factor	(%)	100	
20			Average Annual Generation	(MWH)	2,450,000	
21			Resulting Capacity Factor	(%)	32	
22						
23	ENVIRONMENTAL CHARACTERISTICS	Emission Rates	Carbon Dioxide (CO ₂)	(lb/kWh)	0	
24			Sulfur Dioxide (SO ₂)	(lb/kWh)	0	
25			Nitrogen Oxide (NO _x)	(lb/kWh)	0	
26			Mercury (Hg)	(lb/kWh)	0	
27			Water Usage	(gal/kWh)	0	
28						
29	ESTIMATED COST DATA	Installed Capital	First Year of Commercial Operation	(Year)	2009	
30			Cost ⁽¹⁾	(\$/kw)	6000	
31			Escalation Rate	(%)	1	
32		O & M - Fixed	Cost ⁽¹⁾	(\$/kw-year)	20	
33			Escalation Rate	(%)	3	
34		O & M - Variable	Cost ⁽¹⁾	(\$/kwh)	0.001	
35			Escalation Rate	(%)	3	
36		Fuel	Cost ⁽¹⁾	(\$/kwh)	0	
37			Escalation Rate	(%)	n/a	
38			Discount Rate	(%)		
39		Levelized Cost ⁽²⁾ - Life of Unit	(cents/kwh)	16.5		
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41	FOOTNOTES / ADDITIONAL NOTES					
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43	Assumes 50% of qualifying facilities will adop: (> 25,000sf stores, target bldgs by type, each w 50% chilling load by solar					
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