Composite - RPS Response Sheet - August, 15th Meeting

		Company Name:		Composite	Florida Solar Coalition		
SOURCE		Applicable Utility Service Area	(if any)	Statewide	Statewide		
		Energy Resource:	(Individual Type)	Solar PV	Solar - Photovoltaic		
nos		Energy Resource Type:	(Category)	Renewable	Commercial 10kW-30kW		
0,		Resource Scale	(Unit or Aggregate)	Unit	UNIT		
		Unit Status	(Existing or Planning)	Planning	existing		
ا ک		Typical Unit Annual Capacity Rating	(MW)	0.1	0.01-0.03		
CIA		Earliest Commercial In-Service Date	(Year)	2009	2009		
COMMERCIAL AVAILABILITY		Typical Construction & Permitting Time	(Years)	0.5	.16733		
		Useful Life of Unit	(Years)	30	30		
OA		Fuel Type		Solar Energy	Sun		
, s		Contribution to Summer Peak Demand	(MW)	0.06	0.0055MW - 0.0165MW*		
NCE		Contribution to Winter Peak Demand	(MW)	0	0.0015MW-0.0045MW*		
PERFORMANCE CHARACTERISTICS		Average Annual Heat Rate	(BTU/kWh)	n/a	N/A		
FOF		Equivalent Availability Factor	(%)	100	90.00%		
PER 1AR		Average Annual Generation	(MWH)	177.3	14.32-43.96		
Ċ		Resulting Capacity Factor	(%)	20	16.34%**		
ENVIRONMENTAL CHARACTERISTIC S	ates	Carbon Dioxide (CO ₂)	(lb/kWh)	0	0		
EN	n R	Sulfur Dioxide (SO ₂)	(lb/kWh)	0	0		
CTE	Emission Rates	Nitrogen Oxide (NO _x)	(lb/kWh)	0	0		
VIR ARA	Em	Mercury (Hg)	(lb/kWh)	0	0		
A A		Water Usage	(gal/kwh)	0	N/A		
		First Year of Commercial Operation	(Year)	2009	2009		
	Installed Capital	Cost ⁽¹⁾	(\$/kw)	7000	\$7,750.00		
×	Insta Cap	Escalation Rate	(%)	-2.5	N/A (Prices decline as project size increases)		
DAT	O & M - Fixed	Cost ⁽¹⁾	(\$/kw-year)	10	\$17.59		
ST		Escalation Rate	(%)	3	3%		
000		Cost ⁽¹⁾	(\$/kwh)	n/a	N/A		
ESTIMATED COST DATA	Fuel Variable	Escalation Rate	(%)				
IMA				n/a 0	N/A		
ESI		Cost ⁽¹⁾	(\$/kwh)		Zero		
	-	Escalation Rate	(%)	n/a	N/A		
		Discount Rate	(%)	6	6%		
		Levelized Cost ⁽²⁾ - Life of Unit	(cents/kwh)	30.6	18.62/28.5***		
				Composite may include edits			

Solar Coalition FOOTNOTES / ADDITIONAL NOTES

Projected costs are based on the following assumptions:

- 1- A minimum 40% annual market growth year over year.
- 2- Raw materials and equipment manufacturing plants that are being upgraded or built will have ramped up to meet global demand
- 3- More installers will enter the market and they will increase their install efficiency so that their cost of installation per system wou
- 4- Cell efficiencies will be higher, which would increase the kWh production and reduce the levelized cost of energy.

^{*55%} in summer and 15% in winter - http://www.asrc.cestm.albany.edu/perez/2006/elcc-06.pdf

^{**}Capacity Factor based on midstate - Tampa FL

^{***} witht/without federal investment tax credit, includes inverter replacement at 15 years

PHOTOVOLTAIC - commercial

Florida Solar Coalition	Florida Solar Coalition	Florida Solar Coalition	FL Solar Coalition
Statewide	Statewide	Statewide	Statewide
Solar - Photovoltaic	Solar - Photovoltaic	Solar - Photovoltaic	Solar - Photovoltaic
Commercial 30KW-100kW	Commercial 100kW-1MW	Commercial 1MW-2MW	Commercial 10kW-30kW
UNIT	UNIT	UNIT	UNIT
existing	existing	existing	Planning 2016
0.03-0.1	0.2-1.0	1.0-2.0	0.01-0.03
2009	2009	2009	2016
0.33-0.5	.5 - 1	.5-1	.16733
30	30	30	30
Sun	Sun	Sun	Sun
0.0165MW-0.055MW	0.11MW-0.55MW*	0.55MW-1.1MW*	0.0055MW - 0.0165MW*
0.0045MW-0.015MW*	0.015MW-0.15MW*	0.15MW-0.3MW*	0.0015MW-0.0045MW*
N/A	N/A	N/A	N/A
90.00%	90.00%	90.00%	90.00%
43.96-143.2	296.4-1432	1432-2964	14.32-43.96
16.34%**	16.34%**	16.34%**	16.34%**
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
N/A	N/A	N/A	N/A
2009	2009	2009	2016
\$7,250.00 N/A (Prices decline as project size	\$7,000.00 N/A (Prices decline as project size	\$6,750.00 N/A (Prices decline as project	\$3,750.00/kW** N/A (Prices decline as project
increases)	increases)	size increases)	size increases)
\$17.59	\$10.00	\$10.00	\$17.59
3%	3%	3%	3%
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
Zero	Zero	Zero	Zero
N/A	N/A	N/A	N/A
6%	6%	6%	6%
17.62/26.89***	16.53/25.46***	16.03/24.64***	9.27/14.05***

and the unit-cost production will be lower. Id also be lower than it is today.