

South Dakota

(Mount Rushmore)

Average score

67%

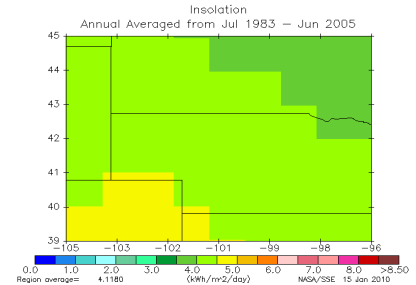
Highest
Lowest

150%
20%

Practical effect to be expected of SolarDrive S2E (200 W)

Trail type - golf course			Light	Medium	Heavy
Consumption	18 holes	kWh	0.80	1.10	1.60
Power production	High (best month)	kWh	1.20	1.20	1.20
PRP* supplied by SolarDrive S2E	High (best month)	kWh	150%	109%	75%
Power production	Low (weakest month)	kWh	0.32	0.32	0.32
PRP* supplied by SolarDrive S2E	Low (weakest month)	kWh	40%	29%	20%
Power production	Yearly Average	kWh	0.74	0.74	0.74
PRP* supplied by SolarDrive S2E	Yearly Average	kWh	93%	67%	46%

*Percentage of Required Power



Basic data

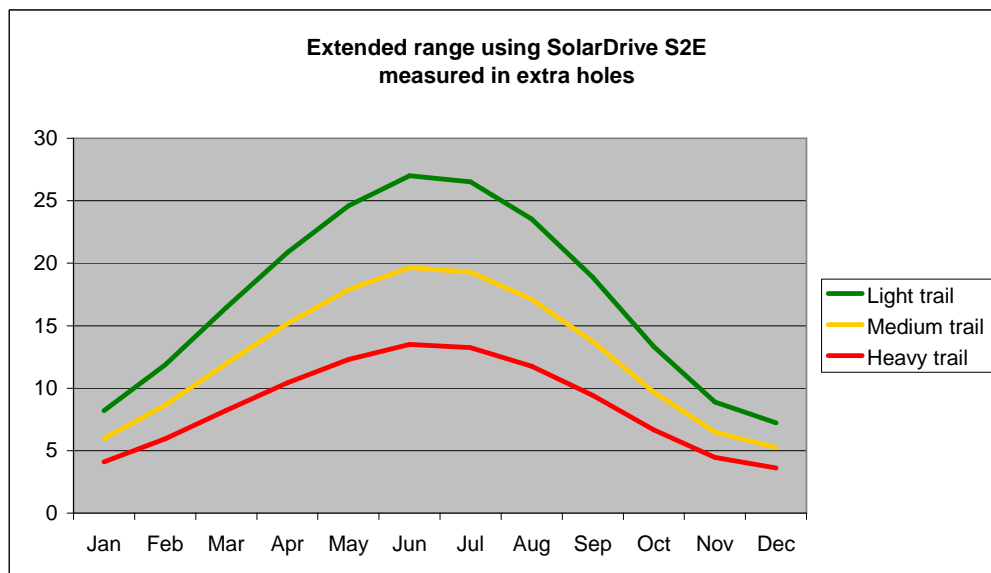
Nominal effect	kW		0.200										Lat.	43.5	Lon.	-103.3
Solar insolation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average			
kWh/m2/day**	1.91	2.78	3.91	5.05	6.07	6.75	6.7	5.94	4.68	3.23	2.1	1.68	4.24			
Avg. day temperature (C)	-0.3	1.9	7.1	13.1	18.9	23.1	26.5	26.1	20.5	13.3	4.3	-0.3	12.9			
Avg. day temperature (F)	31.4	35.3	44.8	55.6	66.0	73.6	79.7	79.0	68.9	55.9	39.8	31.5	55.2			
Temperature loss factor	1.02	1.01	0.99	0.98	0.96	0.95	0.94	0.94	0.95	0.98	1.00	1.02	0.93			
System loss factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Expected output kWh	0.36	0.53	0.73	0.93	1.09	1.20	1.18	1.05	0.84	0.59	0.40	0.32	0.74			

Percentage of consumption driving 18 golf holes on

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Light trail	46%	66%	91%	116%	137%	150%	147%	131%	105%	74%	49%	40%	93%
Medium trail	33%	48%	66%	84%	99%	109%	107%	95%	76%	54%	36%	29%	67%
Heavy trail	23%	33%	46%	58%	68%	75%	74%	65%	52%	37%	25%	20%	46%

Additional golf holes using SolarDrive on Top

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Light trail	8	12	16	21	25	27	27	24	19	13	9	7	17
Medium trail	6	9	12	15	18	20	19	17	14	10	6	5	12
Heavy trail	4	6	8	10	12	14	13	12	9	7	4	4	8



Potential CO2 savings/car/year***

134 to 230 kilos or 295 to 506 lbs.

**Source: NASA Langley Research Center Atmospheric Science Data Center (22 year average)

***CO2 savings are calculated compared to grid electricity supplied from modern power plants burning fossil fuels (0.49-0.85 kg CO2/kWh)

****If battery charge level is low from the start the S2E must be allowed the necessary time to charge as the energy is accumulated over the day

Disclaimer:

SolarDrive takes no responsibility for the correctness of the basic data obtained from NASA nor for the actual experienced results. The figures above is presented as a guideline only. The actual result may be influenced by many other factors as well e.g. length of course, battery watering, altitude, time of year, time of day, present weather conditions, local shades from houses, trees, mountains, tire inflation, general maintenance etc.