Oregon

Portland

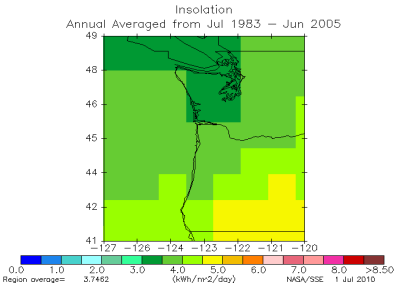
Average score 56%

Highest 138%
Lowest 12%

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

Trail type - golf course			Flat	Hilly	Mount.
Consumption	18 holes	kWh	0.80	1.10	1.60
Power production	High (best month)	kWh	1.11	1.11	1.11
PRP* supplied by SolarDrive S2E	High (best month)	kWh	**138%**	**101%**	**69%**
Power production	Low (weakest month)	kWh	0.20	0.20	0.20
PRP* supplied by SolarDrive S2E	Low (weakest month)	kWh	**25%**	**18%**	**12%**
Power production	Yearly Average	kWh	0.62	0.62	0.62
PRP* supplied by SolarDrive S2E	Yearly Average	kWh	**77%**	**56%**	**38%**

*Percentage of Required Power



Basic data

Nominal effect kW 0.200 Lat. 45.5 Lon. -122.5

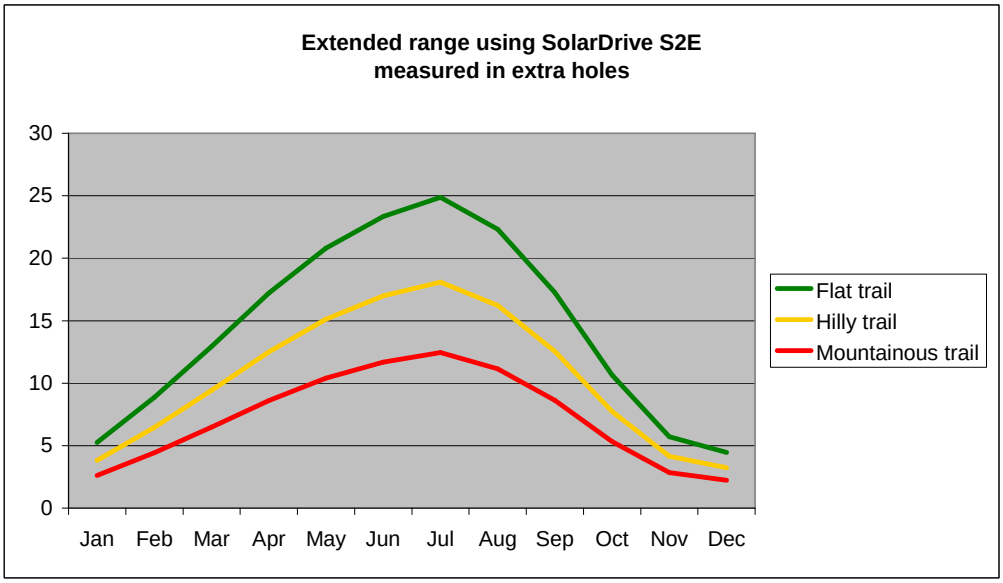
Solar insolation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
kWh/m2/day**	1.25	2.12	3.11	4.16	5.08	5.76	6.22	5.58	4.29	2.6	1.37	1.06	3.55
Avg. day temperature (C)	7.74	8.81	10.2	12.4	15.7	19	23.1	23.3	21	15.6	9.86	7.36	14.5
Avg. day temperature (F)	45.9	47.9	50.4	54.3	60.3	66.2	73.6	73.9	69.8	60.1	49.7	45.2	58.1
Temperature loss factor	0.99	0.99	0.98	0.98	0.97	0.96	0.95	0.95	0.95	0.97	0.99	0.99	0.92
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	0.23	0.39	0.58	0.76	0.92	1.04	1.11	0.99	0.77	0.47	0.25	0.20	0.62

Percentage of consumption driving 18 golf holes on

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Flat trail	29%	49%	72%	96%	116%	130%	138%	124%	96%	59%	32%	25%	77%
Hilly trail	21%	36%	52%	70%	84%	94%	101%	90%	70%	43%	23%	18%	56%
Mountainous trail	15%	25%	36%	48%	58%	65%	69%	62%	48%	30%	16%	12%	38%

Additional golf holes using SolarDrive on Top

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Flat trail	5	9	13	17	21	23	25	22	17	11	6	4	14
Hilly trail	4	6	9	13	15	17	18	16	13	8	4	3	10
Mountainous trail	3	4	6	9	10	12	12	11	9	5	3	2	7



Potential CO2 savings/car/year* 111 to 191 kilos or 245 to 421 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 the National Aeronautics and Space Administration (NASA), nor for the actual experienced results. The figures above are presented as a guideline only. Actual results may be influenced by many other varying factors such as length of course, altitude, seasonal and present weather conditions, time of year and day, shading (e.g., from buildings, houses, trees, mountains) and regular or irregular maintenance routines of the batteries and golf car.*