

# Poland

(Warszawa)

**Average score**

**45%**

**Highest**

**114%**

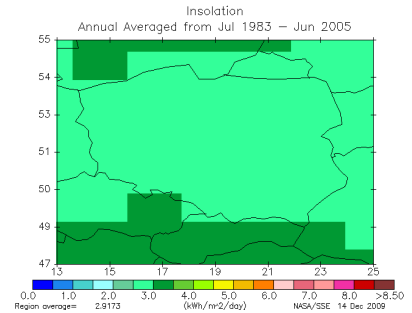
**Lowest**

**8%**

## 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 | 0,92        | 0,92       | 0,92       |
| PRP* supplied by SolarDrive S2E | High (best month)   | kWh | <b>114%</b> | <b>83%</b> | <b>57%</b> |
| Power production                | Low (weakest month) | kWh | 0,13        | 0,13       | 0,13       |
| PRP* supplied by SolarDrive S2E | Low (weakest month) | kWh | <b>16%</b>  | <b>12%</b> | <b>8%</b>  |
| Power production                | Yearly Average      | kWh | 0,50        | 0,50       | 0,50       |
| PRP* supplied by SolarDrive S2E | Yearly Average      | kWh | <b>62%</b>  | <b>45%</b> | <b>31%</b> |

\*Percentage of Required Power



## Basic data

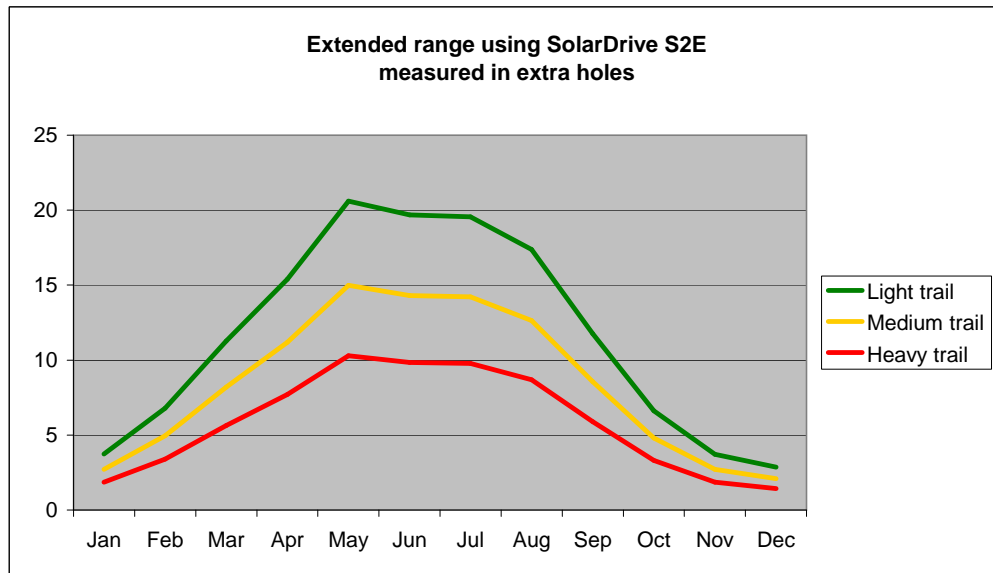
| Nominal effect           | kW         |            |            |            |            |            |            |            |            |            |            |            | Lat.           | 52,2 | Lon. | 20,5 |
|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|------|------|------|
| <b>Solar insolation</b>  | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Average</b> |      |      |      |
| kWh/m2/day**             | 0,87       | 1,59       | 2,67       | 3,73       | 5,09       | 4,90       | 4,91       | 4,36       | 2,90       | 1,60       | 0,88       | 0,67       | 2,85           |      |      |      |
| Avg. day temperature (C) | 0,3        | 1,4        | 5,6        | 13,1       | 19,4       | 21,8       | 24,4       | 24,1       | 18,4       | 12,7       | 5,0        | 1,0        | 12,3           |      |      |      |
| Avg. day temperature (F) | 32,5       | 34,5       | 42,2       | 55,6       | 66,9       | 71,2       | 75,9       | 75,4       | 65,1       | 54,9       | 41,0       | 33,8       | 54,1           |      |      |      |
| Temperature loss factor  | 1,01       | 1,01       | 1,00       | 0,98       | 0,96       | 0,95       | 0,94       | 0,94       | 0,96       | 0,98       | 1,00       | 1,01       | 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      | 0,17       | 0,30       | 0,50       | 0,68       | 0,92       | 0,87       | 0,87       | 0,77       | 0,52       | 0,29       | 0,17       | 0,13       | 0,50           |      |      |      |

## Percentage of consumption driving 18 golf holes on

|                     | Jan | Feb | Mar | Apr | May  | Jun  | Jul  | Aug | Sep | Oct | Nov | Dec | Average |
|---------------------|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|---------|
| <b>Light trail</b>  | 21% | 38% | 63% | 86% | 114% | 109% | 109% | 97% | 65% | 37% | 21% | 16% | 62%     |
| <b>Medium trail</b> | 15% | 27% | 46% | 62% | 83%  | 80%  | 79%  | 70% | 48% | 27% | 15% | 12% | 45%     |
| <b>Heavy trail</b>  | 10% | 19% | 31% | 43% | 57%  | 55%  | 54%  | 48% | 33% | 18% | 10% | 8%  | 31%     |

## Additional golf holes using SolarDrive on Top

|                     | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| <b>Light trail</b>  | 4   | 7   | 11  | 15  | 21  | 20  | 20  | 17  | 12  | 7   | 4   | 3   | 11      |
| <b>Medium trail</b> | 3   | 5   | 8   | 11  | 15  | 14  | 14  | 13  | 9   | 5   | 3   | 2   | 8       |
| <b>Heavy trail</b>  | 2   | 3   | 6   | 8   | 10  | 10  | 10  | 9   | 6   | 3   | 2   | 1   | 6       |



**Potential CO2 savings/car/year\*\*\***

**90 to 155 kilos or 199 to 341 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.