

# Czech Republic East

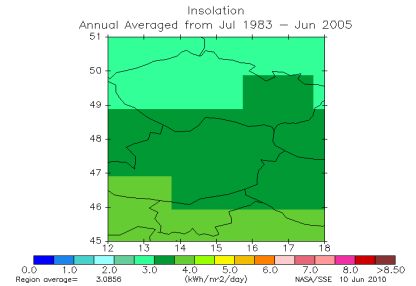
**Average score 48%**

**Highest 113%**  
**Lowest 10%**

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

| Trail type - golf course        | Consumption         | 18 holes | kWh | Flat        | Hilly      | Mount.     |
|---------------------------------|---------------------|----------|-----|-------------|------------|------------|
| Power production                | High (best month)   |          | kWh | 0.91        | 0.91       | 0.91       |
| PRP* supplied by SolarDrive S2E | High (best month)   |          | kWh | <b>113%</b> | <b>82%</b> | <b>57%</b> |
| Power production                | Low (weakest month) |          | kWh | 0.16        | 0.16       | 0.16       |
| PRP* supplied by SolarDrive S2E | Low (weakest month) |          | kWh | <b>20%</b>  | <b>14%</b> | <b>10%</b> |
| Power production                | Yearly Average      |          | kWh | 0.53        | 0.53       | 0.53       |
| PRP* supplied by SolarDrive S2E | Yearly Average      |          | kWh | <b>66%</b>  | <b>48%</b> | <b>33%</b> |

\*Percentage of Required Power



## Basic data

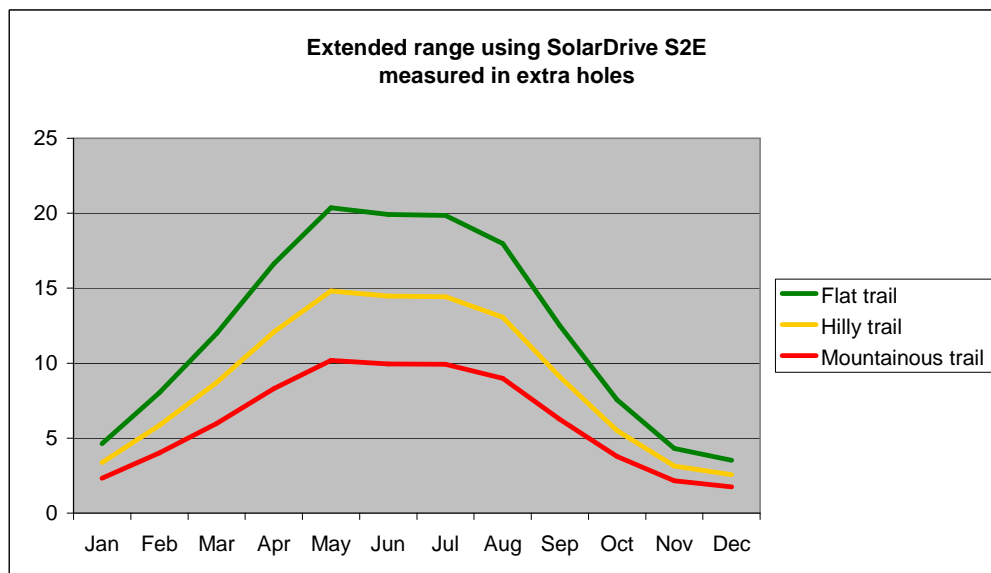
|                          |    |            |            |            |            |            |            |            |            |            |            |            |            |                |      |      |
|--------------------------|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|------|------|
| Nominal effect           | kW | 0.200      |            |            |            |            |            |            |            |            |            |            | Lat.       | 49.5           | Lon. | 17.5 |
| <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**             |    | 1.08       | 1.88       | 2.84       | 4.03       | 5.03       | 4.96       | 4.98       | 4.51       | 3.08       | 1.83       | 1.02       | 0.82       | 3.01           |      |      |
| Avg. day temperature (C) |    | -0.21      | 1.45       | 6.19       | 13.2       | 19.3       | 22         | 24.3       | 24.2       | 18.4       | 12.7       | 5.09       | 0.65       | 12.3           |      |      |
| Avg. day temperature (F) |    | 31.6       | 34.6       | 43.1       | 55.8       | 66.7       | 71.6       | 75.7       | 75.6       | 65.1       | 54.9       | 41.2       | 33.2       | 54.1           |      |      |
| Temperature loss factor  |    | 1.02       | 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      |    | 0.21       | 0.36       | 0.53       | 0.74       | 0.91       | 0.88       | 0.88       | 0.80       | 0.56       | 0.34       | 0.19       | 0.16       | 0.53           |      |      |

## Percentage of consumption driving 18 golf holes on

|                          | Jan | Feb | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep | Oct | Nov | Dec | Average |
|--------------------------|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|---------|
| <b>Flat trail</b>        | 26% | 45% | 67% | 92% | 113% | 111% | 110% | 100% | 69% | 42% | 24% | 20% | 66%     |
| <b>Hilly trail</b>       | 19% | 32% | 48% | 67% | 82%  | 80%  | 80%  | 73%  | 51% | 31% | 17% | 14% | 48%     |
| <b>Mountainous trail</b> | 13% | 22% | 33% | 46% | 57%  | 55%  | 55%  | 50%  | 35% | 21% | 12% | 10% | 33%     |

## Additional golf holes using SolarDrive on Top

|                          | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| <b>Flat trail</b>        | 5   | 8   | 12  | 17  | 20  | 20  | 20  | 18  | 13  | 8   | 4   | 4   | 12      |
| <b>Hilly trail</b>       | 3   | 6   | 9   | 12  | 15  | 14  | 14  | 13  | 9   | 5   | 3   | 3   | 9       |
| <b>Mountainous trail</b> | 2   | 4   | 6   | 8   | 10  | 10  | 10  | 9   | 6   | 4   | 2   | 2   | 6       |



**Potential CO2 savings/car/year\*\*\* 95 to 163 kilos or 210 to 360 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.