

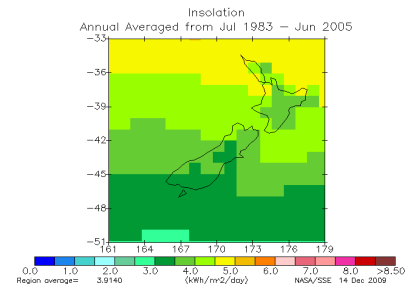
New Zealand

Matauri Bay, Northland

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

| Utility Vehicle/Trail Type | | Flat | Hilly | Mount. | |
|-------------------------------|---------------------|------|-------------|-------------|-------------|
| Consumption per mile | kWh | 0.18 | 0.24 | 0.32 | |
| Power production | High (best month) | kWh | 1.14 | 1.14 | 1.14 |
| Extra mileage supplied by S2E | High (best month) | kWh | 6.31 | 4.73 | 3.55 |
| Power production | Low (weakest month) | kWh | 0.37 | 0.37 | 0.37 |
| Extra mileage supplied by S2E | Low (weakest month) | kWh | 2.06 | 1.55 | 1.16 |
| Power production | Yearly Average | kWh | 0.73 | 0.73 | 0.73 |
| Extra mileage supplied by S2E | Yearly Average | kWh | 4.03 | 3.02 | 2.27 |

*Percentage of Required Power

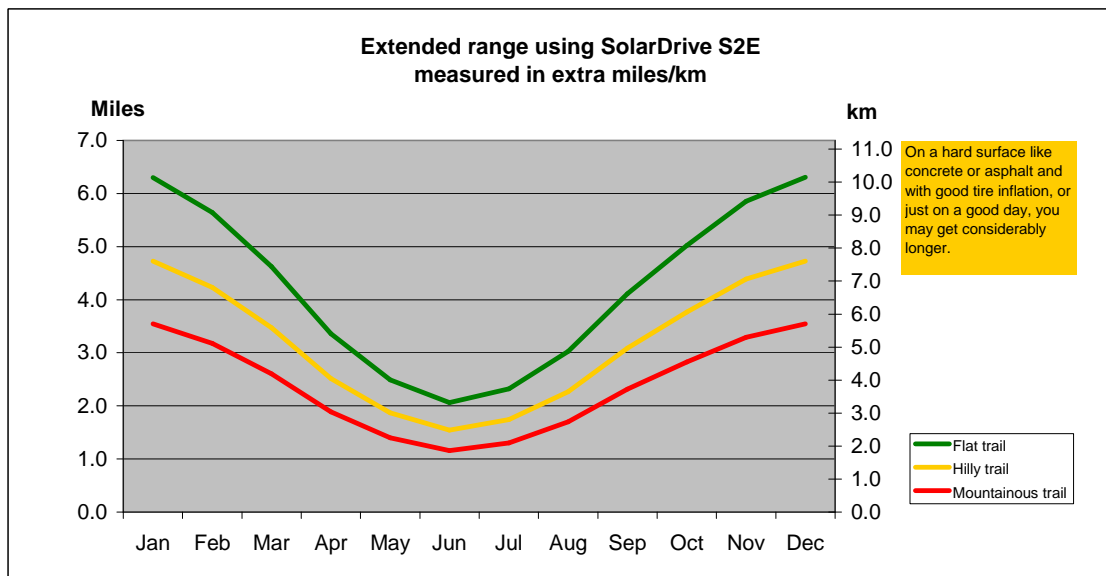


Basic data

| | | | | | | | | | | | | | | | | |
|--------------------------|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|------|-------|
| Nominal effect | kW | 0.200 | | | | | | | | | | | Lat. | -35.5 | Lon. | 173.5 |
| Solar insolation | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average | | |
| kWh/m2/day** | | 6.40 | 5.74 | 4.68 | 3.37 | 2.48 | 2.04 | 2.29 | 2.99 | 4.08 | 5.01 | 5.87 | 6.37 | 4.28 | | |
| Avg. day temperature (C) | | 24.0 | 24.4 | 22.8 | 20.5 | 18.1 | 15.9 | 15.0 | 15.3 | 16.6 | 18.3 | 20.1 | 22.4 | 19.4 | | |
| Avg. day temperature (F) | | 75.2 | 75.9 | 73.0 | 68.9 | 64.6 | 60.6 | 59.0 | 59.5 | 61.9 | 64.9 | 68.2 | 72.3 | 66.9 | | |
| Temperature loss factor | | 0.94 | 0.94 | 0.95 | 0.95 | 0.96 | 0.97 | 0.97 | 0.97 | 0.97 | 0.96 | 0.95 | 0.95 | 0.90 | | |
| 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 | | 1.13 | 1.02 | 0.83 | 0.60 | 0.45 | 0.37 | 0.42 | 0.54 | 0.74 | 0.90 | 1.05 | 1.14 | 0.73 | | |

| | | | | | | | | | | | | | | |
|----------------------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| Extra miles per day | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
| (1 mile 0 1.609 km) | | | | | | | | | | | | | | |
| Flat trail | | 6.3 | 5.6 | 4.6 | 3.4 | 2.5 | 2.1 | 2.3 | 3.0 | 4.1 | 5.0 | 5.9 | 6.3 | 4.0 |
| Hilly trail | | 4.7 | 4.2 | 3.5 | 2.5 | 1.9 | 1.5 | 1.7 | 2.3 | 3.1 | 3.8 | 4.4 | 4.7 | 3.0 |
| Mountainous trail | | 3.5 | 3.2 | 2.6 | 1.9 | 1.4 | 1.2 | 1.3 | 1.7 | 2.3 | 2.8 | 3.3 | 3.5 | 2.3 |

| | | | | | | | | | | | | | | |
|---|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| Electricity savings in percent assuming your utility vehicle drives 7 miles in average per day | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
| Flat trail | | 90% | 81% | 66% | 48% | 36% | 29% | 33% | 43% | 59% | 72% | 84% | 90% | 58% |
| Hilly trail | | 68% | 60% | 50% | 36% | 27% | 22% | 25% | 32% | 44% | 54% | 63% | 68% | 43% |
| Mountainous trail | | 51% | 45% | 37% | 27% | 20% | 17% | 19% | 24% | 33% | 40% | 47% | 51% | 32% |



Potential CO2 savings/car/year* 131 to 225 kilos or 289 to 496 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.

Utility Vehicles



| Extra km per day | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
|-------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------|
| Flat trail | 10.1 | 9.1 | 7.4 | 5.4 | 4.0 | 3.3 | 3.7 | 4.9 | 6.6 | 8.1 | 9.4 | 10.1 | 6.5 |
| Hilly trail | 7.6 | 6.8 | 5.6 | 4.0 | 3.0 | 2.5 | 2.8 | 3.7 | 5.0 | 6.1 | 7.1 | 7.6 | 4.9 |
| Mountainous trail | 5.7 | 5.1 | 4.2 | 3.0 | 2.3 | 1.9 | 2.1 | 2.7 | 3.7 | 4.5 | 5.3 | 5.7 | 3.6 |