

Global Green Challenge (<http://www.globalgreenchallenge.com.au>) sponsored by Internode (<http://www.internode.on.net>)

Results for: Tesla Roadster (Production #186), from October 24-30th 2009

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Table prepared by Simon Hackett on 31 Oct 2009

Stage	From-To	Stage Dist (Km)	Stage Avg Speed Km/H	Stage Min Req Speed Km/H	Completed within event stage time?	Re-Charge Stops	Wh/Km	Net kWh total	Equiv L/100Km	Equiv MPG (US)	Green Power Cost On-Peak (AUS\$)	Green Power Cost Off-Peak (AUS\$)
1	Darwin-Katherine	345	69	60	YES	0	143	49.3	1.6	146	\$14.03	\$7.69
2	Katherine-Tennant Creek	664	78	75	NO	2	150	99.6	1.7	139	\$28.32	\$15.52
3	Tennant Creek-Alice Springs	510	76	75	NO	1	147	75.0	1.7	142	\$21.32	\$11.69
4A	Alice Springs to stop	503	50	75	NO	0	108	54.3	1.2	193	\$15.45	\$8.47
4B	stop to Coober Pedy	183	84	75	NO	1	147	26.9	1.7	142	\$7.65	\$4.19
5	Coober Pedy-Port Augusta	548	79	75	NO	1	150	82.2	1.7	139	\$23.37	\$12.81
6	Port Augusta-Adelaide	303	85	75	YES	0	144	43.6	1.6	145	\$12.41	\$6.80
7	Adelaide Urban	91	30	30	YES	0	138	12.6	1.6	151	\$3.57	\$1.96
Totals for event:		3147						443.5			\$126.11	\$69.13
Averages for event:							141		1.6	150		

Stage 1 includes Darwin Urban Cycle and distance to start point from Hidden Valley racetrack

Carbon footprint has been 100% offset by GreenEnergy RECs sponsored by Carbon Planet (<http://www.carbonplanet.com>)

GreenPower purchase example energy costs includes 5.5 c per kWh surcharge for 100% GreenEnergy from nominated power retailer

Average Speed excludes time for in-stage recharge stops

Stage Min Req Speed is the organisers' required minimum driving speed, implemented as a declared maximum time per stage

Completion within stage time was not possible for stages where in-stage recharging time was required - as noted in table

Stage 4 has been split into '4A' (the record breaking 501km drive on one charge)

and '4B' (the remainder of the drive into Coober Pedy after recharging)

Stage 4A was actually 503 km's including exit from Parc Ferme' to join highway. Distance for record claimed as 501km

Data Sources for energy cost and equivalent fuel consumption figures:

1) South Australian "General Supply 126" tariff of 22.935 cents per kWh and "Off Peak Controlled Load 116" tariff of 10.087 cents per kWh from:
http://www.agl.com.au/Downloads/AGL%20SA_%20Standing%20and%20Default%20Contract%20Prices%20for%20Small%20Customers.pdf (at 30 October 2009)

2) Plus a surcharge of 5.5 cents per kWh to buy 100% GreenEnergy from:
<http://www.agl.com.au/home/agl-energy-plans/Pages/green-energy-plans.aspx> (at 30 October 2009)

Hence total energy costs used are 28.435 cents per kWh for daytime on peak
and 15.587 cents per kWh for overnight off peak (both including GST) for 100% GreenEnergy supply in South Australia at 30th October 2009

Conversion factors to Equiv L/100Km and Equiv MPG based on the calculator at <http://ecomodder.com/forum/tool-conversions.php>