

Green Flight Challenge Sponsored by Google - Final Results

Efficiency Competition					
Team	Pipistrel	e-Genius	Phoenix	Embry-Riddle	Metric
Fuel used			3.82	3.82	Gallons 100LL
Energy used	65.4	34.7		3.8	kWh
Equivalent fuel used	1.94	1.03	3.98	4.10	Gallons (auto fuel)
Flight time (for speed)	1:47:16	1:48:27	2:25:01	2:00:48	Time
Flight time (for mileage)	1:49:37	1:50:23	2:25:43	2:04:07	Time
Distance (for speed)	192.0	191.0	186.7	142.5	Miles
Distance (for mileage)	195.9	193.7	187.8	148.1	Miles
Mileage	403.5	375.7	94.3	72.2	ePMPG
Speed	107.4	105.7	77.3	70.7	MPH
Speed Competition					
Team	Pipistrel	e-Genius	Phoenix	Embry-Riddle	Metric
Fuel used			6.61	4.19	gallons 100LL
Energy used	68.3	37.5		3.0	kWh
Equivalent fuel used	2.03	1.11	6.90	4.47	gallons (auto fuel)
Flight time (for speed)	1:41:55	1:47:45	1:22:11	1:43:21	Time
Flight time (for mileage)	1:44:10	1:50:24	1:22:57	1:44:53	Time
Distance (for speed)	193.0	192.7	188.4	143.9	Miles
Distance (for mileage)	196.8	196.2	189.5	146.2	Miles
Mileage	388.4	352.4	55.0	65.5	ePMPG
Speed	113.6	107.3	137.5	83.5	MPH
Score	72.7	68.3	35.1	25.2	GFC Score
Score = 1/(1/Speed + 2/Mileage)					
Noise Competition					
Team	Pipistrel	e-Genius	Phoenix	Embry-Riddle	Metric
Measured at 250' sideline	71.1	59.5	62.5	67	Noise in dBA avg. peak
For comparison:					
Typical GA Piston Aircraft					
Measured at 1476' FAA	74				
Measured at 775' sideline	80				
Measured at 387' sideline	86				
Measured at 195'	92				