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Traffic Volume and Solar Power Estimates

Radar sign using 40 watt solar panel for recharging											
Avg. Solar Hours/Day	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	
Estimated Number of Battery Backup Days											
Avg. # of Vehicles/Day	1000	INDEF	<i>Batteries should provide continuous supply of backup power</i>								INDEF
	2000	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF
	5000	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF
	7500	7.6	7.6	7.6	7.6	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF
	10000	NR	6.3	6.3	6.3	6.3	6.3	INDEF	INDEF	INDEF	INDEF
	12500	NR	NR	NR	5.2	5.2	5.2	5.2	5.2	INDEF	INDEF
	15000	NR	NR	NR	NR	4.2	4.2	4.2	4.2	4.2	4.2
	17500	NR	NR	NR	NR	3.6	3.6	3.6	3.6	3.6	3.6
	20000	NR	NR	NR	NR	NR	3.1	3.1	3.1	3.1	3.1
	25000	NR	NR	NR	NR	NR	NR	NR	2.5	2.5	2.5
	30000	NR	<i>Not recommended, 40 watt not sufficient to support 24/7 operation</i>								NR

Radar sign using 65 watt solar panel for recharging											
Avg. Solar Hours/Day	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	
Estimated Number of Battery Backup Days											
Avg. # of Vehicles/Day	2000	INDEF	<i>(Batteries should provide continuous supply of backup power)</i>								INDEF
	5000	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF
	7500	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF
	10000	6.5	6.5	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF
	12500	5.4	5.4	5.4	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF	INDEF
	15000	NR	4.2	4.2	4.2	4.2	INDEF	INDEF	INDEF	INDEF	INDEF
	17500	NR	3.6	3.6	3.6	3.6	3.6	3.6	INDEF	INDEF	INDEF
	20000	NR	NR	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	25000	NR	NR	NR	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	30000	NR	NR	NR	NR	2	2	2	2	2	2
	35000	NR	NR	NR	NR	NR	1.7	1.7	1.7	1.7	1.7
	40000	NR	NR	NR	NR	NR	NR	1.5	1.5	1.5	1.5
	45000	NR	<i>Not recommended, 65 watt not sufficient to support 24/7 operation</i>								NR

The traffic volumes listed above, and the associated battery life assume that the radar sign display will **only** be activated by vehicles **exceeding** the posted speed limit. These table are estimates. These values are based on temperature ranges of 30-100° F. Temperatures between 0-30° F will decrease these numbers by at least 50%.