

**LIFE CYCLE COST ANALYSIS by SAVE Intl. (LCCA) (Form TE-703-17 )**

Project/Location: Phoenix AZ

Proposal No.

Item Carsharing vs. Purchasing a car

Description:				Alternative 1		Alternative 2		Alternative 3	
Project Life Cycle =		12	Years	Purchasing a Vehicle / Toyota Prius LE 2019 Hatchback		Ridesharing using Lyft			
Discount Rate =		10.00%	%						
Present Time =									
INITIAL COSTS				Est.	PW	Est.	PW	Est.	PW
A.	2019 Prius LE Hatchback	1	each	\$ 25,000.00	\$ 25,000.00	\$ -	\$ -		\$ -
B.	Sales Tax (8.6%)	1	each	\$ 2,150.00	\$ 2,150.00		\$ -		\$ -
C.									
D.									
E.									
F.									
Total Initial Cost				\$ 27,150		\$ -		\$ -	
Initial Cost PW Savings (Compared to Original Design)						\$ 27,150		\$ 27,150	
REPLACEMENT COST/ SALVAGE VALUE									
Description		Year	PW Factor						
A.	2019 Prius LE Hatchback Repair/Replace	3	0.75131	\$ 1,500.00	\$ 1,126.97	\$ -	\$ -	\$ -	\$ -
B.	2019 Prius LE Hatchback Repair/Replace	6	0.56447	\$ 1,500.00	\$ 846.71	\$ -	\$ -	\$ -	\$ -
C.	2019 Prius LE Hatchback Repair/Replace	9	0.42410	\$ 1,500.00	\$ 636.15	\$ -	\$ -	\$ -	\$ -
D.									
E.									
F.	Salvage Value	12	0.31863	\$ (6,000.00)	\$ (1,911.78)	\$ -	\$ -	\$ -	\$ -
Total Replacement/Salvage Costs				\$ 698		\$ -		\$ -	
ANNUAL COSTS									
Description		Escl. %	PWA						
A.	Gasoline (City) = 6630 miles/58 mpg x 3.00 per gallon	0.0%	6.81369	\$ 342.93	\$ 2,336.63	\$ -	\$ -	\$ -	\$ -
B.	Gasoline (Highway) = 2210 miles/53 mpg x 3.00 per gallon	0.0%	6.81369	\$ 125.09	\$ 852.35	\$ -	\$ -	\$ -	\$ -
C.	Insurance	0.0%	6.81369	\$ 1,000.00	\$ 6,813.69	\$ -	\$ -	\$ -	\$ -
D.	Maintenance	0.0%	6.81369	\$ 500.00	\$ 3,406.85	\$ -	\$ -	\$ -	\$ -
E.	Other Expenses	0.0%	6.81369	\$ 250.00	\$ 1,703.42	\$ -	\$ -	\$ -	\$ -
F.	10 weekly Lyft trips at 15 miles each (20-minute trip) = 10 x [0.40 + (15 miles x 0.81) + (20 min x 0.17) + 2.65 svc charge] = \$186 per week x 52 weeks (plus 10% tip)	0.0%	6.81369		\$ -	\$ 10,639.20	\$ 72,492.23	\$ -	\$ -
G.	4 weekly Lyft trips at 5 miles each (7-minute trip) = 4 x [0.40 + (5 miles x 0.81) + (7 min x 0.17) + 2.65 svc charge] = \$33.16 per week x 52 weeks (plus 10% tip)	0.0%	6.81369		\$ -	\$ 1,896.75	\$ 12,923.88	\$ -	\$ -
H.									
Total Annual Costs (Present Worth)				\$ 15,113		\$ 85,416		\$ -	
Total Life Cycle Costs (Present Worth)				\$ 42,961		\$ 85,416		\$ -	
Life Cycle Savings (Compared to Original Design)						\$ (42,455)		\$ 42,961	
			PP Factor						
Total Life Cycle Costs (Annualized)			0.1468	\$ 6,305.10	Per Year	\$ 12,536	Per Year	\$ -	Per Year

PW: Present Worth

PWA: Present Worth of Annuity

PP: Periodic Payment