

\$146,567	Capital Borrowed:	\$3.50	\$3.80	\$1.10	2009 price per unit.	
	Ī					xpected annual rate
30	Expected Life in Years:	8%	8%	7%	8%	increase:
3.80	Interest Rate:					
	Loan term (years):			Annual Maintenance cost (- values!):	Annual Maintenance savings:	
3	Construction Cost Inflation:				\$0	2007 cost:
3	Maintenance Cost Inflation:					
					\$0.00	PV Buyback \$/kWh

Price:	\$146,567					
Grant:	: \$0					
Capital Borrowed:	\$146,567					
pected Life in Years:	30					
Interest Rate:	3.80%					
Loan term (years):	10					
ruction Cost Inflation:	3%					
enance Cost Inflation:	3%					

Energy Unit	lb CO2 / Unit	metric tons CO2/Unit	kWh / Unit	lb CO2/kWh	metric tons CO2/kWh
kWh Electricity	1.755	0.000796	1	1.8	0.000796
Therm Natural Ga	11.7	0.005307	29.3	0.4	0.000181
Gallon Gasoline	19.5	0.008845	36.6	0.5	0.000242
Gallon Diesel	22.2	0.010070	40.6	0.5	0.000248

This scenario is used in the graph!!!

																					Net		Net									
																			Present							Benefit / Present				Benefit /	Present	
																		Discount-		Benefit / Cost	Value		Discount-rate		Cost	Value		Discount-		Cost	Value	
																		rate A		Ratio	NPV		В		Ratio	NPV	r	ate C		Ratio	NPV	
																		5.0%		3.92	\$424,409		3.0%		5.03	\$632,925		7.0%		3.13	\$289,239	<i>I</i>
		Replacment	Additional Repair	Natural gas	5					Replacment		Additional					Cummulative	9			Discounted	Discounted				Discounted	Discounted				Discounted	Discounted
		Savings (Toda		saved	Electricity	Electricity		Gasoline	Maintenance	and Repair	Additional	Maintenance		Annual		Net Cash	Net Cash		Discounted	Discounted Annual		Cummulative		Discounted	Discounted		Cummulative		Discounted	Discounted	Net Cash	Cummulative
Period	Year	Cost)	Cost) (- values!)		saved	buyback	Diesel save	ed saved	Savings	Savings	Repair cost	Cost	Debt Service	Benefit	Annual Cost	Flow NCF	flow	discountfactor	Annual Benefit	Cost	Flow NCF	NCF	discountfactor	Annual Benefit	Annual Cost	Flow NCF	NCF	discountfactor	Annual Benefit	Annual Cost	Flow NCF	NCF
0	2009	\$0	\$0	\$6,710	\$6,454	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$20,226	\$13,164	-\$20,226	-\$7,063	-\$7,063	1	\$13,163.70	-\$20,226	-\$7,062.55	-\$7,062.55	1	\$13,163.70	-\$20,226	-\$7,062.55	-\$7,062.55	1	\$13,163.70	-\$20,226	-\$7,062.55	-\$7,062.55
1	2010	\$0	\$0	\$7,247	\$6,905	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$19,669	\$14,152	-\$19,669	-\$5,517	-\$12,580	0.952380952	\$13,478.34	-\$18,733	-\$5,254.32	-\$12,317	0.970873786	\$13,740.06	-\$19,096	-\$5,356.34	-\$12,419	0.934579439	\$13,226.41	-\$18,383	-\$5,156.11	-\$12,219
2	2011	\$0	\$0	\$7,827	\$7,389	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$19,112	\$15,215	-\$19,112	-\$3,897	-\$16,477	0.907029478	\$13,800.80	-\$17,335	-\$3,534.65	-\$15,852	0.942595909	\$14,341.96	-\$18,015	-\$3,673.25	-\$16,092	0.873438728	\$13,289.71	-\$16,693	-\$3,403.75	-\$15,622
3	2012	\$0	\$0	\$8,453	\$7,906	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$18,555	\$16,359	-\$18,555	-\$2,197	-\$18,673	0.863837599	\$14,131.28	-\$16,029	-\$1,897.55	-\$17,749	0.915141659	\$14,970.55	-\$16,981	-\$2,010.25	-\$18,102	0.816297877	\$13,353.59	-\$15,147	-\$1,793.12	-\$17,416
4	2013	\$0	\$0	\$9,129	\$8,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$17,998	\$17,588	-\$17,998	-\$410	-\$19,083	0.822702475	\$14,469.99	-\$14,807	-\$337.36	-\$18,086	0.888487048	\$15,627.03	-\$15,991	-\$364.34		0.762895212	\$13,418.08	-\$13,731	-\$312.83	-\$17,728
5	2014	\$0	\$0	\$9,859	\$9,052	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$17,441	\$18,911	-\$17,441	\$1,469	-\$17,614	0.783526166	\$14,817.14	-\$13,666	\$1,151.29	-\$16,935	0.862608784	\$16,312.66	-\$15,045	\$1,267.49		0.712986179	\$13,483.17	-\$12,436	\$1,047.64	-\$16,681
6	2015	\$0	\$0	\$10,648	\$9,685	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$16,885	\$20,333	-\$16,885	\$3,449	-\$14,165	0.746215397	\$15,172.94	-\$12,599	\$2,573.45	-\$14,362	0.837484257	\$17,028.73	-\$14,141	\$2,888.21	-\$14,311	0.666342224	\$13,548.86	-\$11,251	\$2,298.00	-\$14,383
7	2016	\$0	\$0	\$11,500	\$10,363	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$16,328	\$21,863	-\$16,328	\$5,535	-\$8,630	0.71068133	\$15,537.62	-\$11,604	\$3,933.93	-\$10,428	0.813091511	\$17,776.61	-\$13,276	\$4,500.81	-\$9,810	0.622749742	\$13,615.17	-\$10,168	\$3,447.19	-\$10,936
8	2017	\$0	\$0	\$12,420	\$11,089	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$15,771	\$23,508	-\$15,771	\$7,738	-\$892	0.676839362	\$15,911.41	-\$10,674	\$5,237.24	-\$5,191	0.789409234	\$18,557.75	-\$12,449	\$6,108.28	-\$3,702	0.582009105	\$13,682.10	-\$9,179	\$4,503.46	-\$6,432
9	2018	\$0	\$0	\$13,413	\$11,865	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$15,214	\$25,278	-\$15,214	\$10,065	\$9,173	0.644608916	\$16,294.54	-\$9,807	\$6,487.69	\$1,297	0.766416732	\$19,373.62	-\$11,660	\$7,713.62	\$4,012	0.543933743	\$13,749.66	-\$8,275	\$5,474.44	-\$958
10	2019	\$0	\$0	\$14,486	\$12,695		\$0	\$0	\$0	\$0	\$0	\$0		\$27,182	\$0	\$27,182	\$36,354	0.613913254	\$16,687.26	\$0	\$16,687.26	\$17,984	0.744093915	\$20,225.81	\$0	\$20,225.81	\$24,237	0.508349292	\$13,817.84	\$0	\$13,817.84	\$12,860
11	2020	\$0	\$0	\$15,645	\$13,584		\$0	\$0	\$0	\$0	\$0	\$0		\$29,229	\$0	\$29,229	\$65,584	0.584679289	\$17,089.81	\$0	\$17,089.81	\$35,074	0.722421277	\$21,115.93	\$0	\$21,115.93	\$45,353		\$13,886.67	\$0	\$13,886.67	
12	2021	\$0	\$0	\$16,897	\$14,535		\$0	\$0	\$0	\$0	\$0	\$0		\$31,432	\$0	\$31,432	\$97,016	0.556837418	\$17,502.45	\$0	\$17,502.45	\$52,577	0.70137988	\$22,045.70	\$0	\$22,045.70	\$67,399	0.444011959	\$13,956.14	\$0	\$13,956.14	\$40,703
13	2022	\$0	\$0	\$18,249	\$15,552		\$0	\$0	\$0	\$0	\$0	\$0		\$33,801	\$0	\$33,801	\$130,817	0.530321351	\$17,925.44	\$0	\$17,925.44	\$70,502	0.68095134	\$23,016.90	\$0	\$23,016.90	\$90,416	0.414964448	\$14,026.25	\$0	\$14,026.25	\$54,729
14	2023	\$0	\$0	\$19,709	\$16,641		\$0	\$0	\$0	\$0	\$0	\$0		\$36,350	\$0	\$36,350	\$167,166	0.505067953	\$18,359.05	\$0	\$18,359.05	\$88,861	0.661117806	\$24,031.40	\$0	\$24,031.40	\$114,447	0.387817241	\$14,097.02	\$0	\$14,097.02	\$68,826
15	2024	\$0	\$0	\$21,285	\$17,806		\$0	\$0	\$0	\$0	\$0	\$0		\$39,091	\$0	\$39,091	\$206,258	0.481017098	\$18,803.54	\$0	\$18,803.54	\$107,665	0.641861947	\$25,091.16	\$0	\$25,091.16	\$139,539	0.36244602	\$14,168.46	\$0	\$14,168.46	\$82,995
16	2025	\$0	\$0	\$22,988	\$19,052		\$0	\$0	\$0	\$0	\$0	\$0		\$42,040	\$0	\$42,040	\$248,298	0.458111522	\$19,259.22	\$0	\$19,259.22	\$126,924	0.623166939	\$26,198.22	\$0	\$26,198.22	\$165,737	0.338734598	\$14,240.56	\$0	\$14,240.56	\$97,235
17	2026	\$0	\$0	\$24,827	\$20,386		\$0	\$0	\$0	\$0	\$0	\$0		\$45,213	\$0	\$45,213	\$293,511	0.436296688	\$19,726.35	\$0	\$19,726.35	\$146,650	0.605016446	\$27,354.71	\$0	\$27,354.71	\$193,092	0.31657439	\$14,313.33	\$0	\$14,313.33	\$111,549
18	2027	\$0	\$0	\$26,813	\$21,813		\$0	\$0	\$0	\$0	\$0	\$0		\$48,626	\$0	\$48,626	\$342,138	0.415520655	\$20,205.26	\$0	\$20,205.26	\$166,856	0.587394608	\$28,562.86	\$0		\$221,654		\$14,386.79	\$0	\$14,386.79	\$125,935
19	2028	\$0	\$0	\$28,958	\$23,340		\$0	\$0	\$0	\$0	\$0	\$0		\$52,298	\$0	\$52,298	\$394,436	0.395733957	\$20,696.23	\$0	\$20,696.23	\$187,552	0.570286027	\$29,825.01	\$0	\$29,825.01	\$251,479	0.276508333	\$14,460.93	\$0	\$14,460.93	\$140,396
20	2029	\$0	\$0	\$31,275	\$24,974		\$0	\$0	\$0	\$0	\$0	\$0		\$56,249	\$0	\$56,249	\$450,685	0.376889483	\$21,199.58	\$0	\$21,199.58	\$208,751	0.553675754	\$31,143.60	\$0	\$31,143.60	\$282,623	0.258419003	\$14,535.76	\$0	\$14,535.76	\$154,932
21	2030	\$0	\$0	\$33,777	\$26,722		\$0	\$0	\$0	\$0	\$0	\$0		\$60,499	\$0	\$60,499	\$511,184	0.358942365	\$21,715.64	\$0	\$21,715.64	\$230,467	0.537549276	\$32,521.18	\$0	\$32,521.18	\$315,144	0.241513087	\$14,611.29	\$0	\$14,611.29	\$169,543
22	2031	\$0	\$0	\$36,479	\$28,592		\$0	\$0	\$0	\$0	\$0	\$0		\$65,072	\$0	\$65,072	\$576,255	0.341849871	\$22,244.74	\$0	\$22,244.74	\$252,712	0.521892501	\$33,960.42	\$0	\$33,960.42	\$349,105	0.225713165	\$14,687.53	\$0	\$14,687.53	\$184,231
23	2032	\$0	\$0	\$39,398	\$30,594		\$0	\$0	\$0	\$0	\$0	\$0		\$69,991	\$0	\$69,991	\$646,247	0.325571306	\$22,787.22	\$0	\$22,787.22	\$275,499	0.506691748	\$35,464.10	\$0		\$384,569		\$14,764.48	\$0	\$14,764.48	\$198,995
24	2033	\$0	\$0	\$42,549	\$32,736		\$0	\$0	\$0	\$0	\$0	\$0		\$75,285	\$0	\$75,285	\$721,532	0.31006791	\$23,343.42	\$0	\$23,343.42	\$298,842	0.491933736	\$37,035.16	\$0	\$37,035.16	\$421,604	0.19714662	\$14,842.16	\$0	\$14,842.16	\$213,838
25	2034	\$0	\$0	\$45,953	\$35,027		\$0	\$0	\$0	\$0	\$0	\$0		\$80,980	\$0	\$80,980	\$802,512	0.295302772	\$23,913.70	\$0	\$23,913.70	\$322,756	0.477605569	\$38,676.64	\$0	\$38,676.64	\$460,280	0.184249178	\$14,920.55	\$0	\$14,920.55	\$228,758
26	2035	\$0	\$0	\$49,630	\$37,479		\$0	\$0	\$0	\$0	\$0	\$0		\$87,108	\$0	\$87,108	\$889,620	0.281240735	\$24,498.44	\$0	\$24,498.44	\$347,255	0.463694727	\$40,391.73	\$0	\$40,391.73	\$500,672	0.172195493	\$14,999.68	\$0	\$14,999.68	\$243,758
27	2036	\$0	\$0	\$53,600	\$40,102		\$0	\$0	\$0	\$0	\$0	\$0		\$93,702	\$0	\$93,702	\$983,323	0.267848319	\$25,098.01	\$0	\$25,098.01	\$372,353	0.450189056	\$42,183.76	\$0	\$42,183.76	\$542,856	0.160930367	\$15,079.55	\$0	\$15,079.55	\$258,837
28	2037	\$0	\$0	\$57,888	\$42,910		\$0	\$0	\$0	\$0	\$0	\$0		\$100,797	\$0		\$1,084,120		\$25,712.80	\$0	\$25,712.80	\$398,065	0.437076753	\$44,056.24	\$0		\$586,912		\$15,160.17	\$0	\$15,160.17	
29	2038	\$0	\$0	\$62,519	\$45,913		\$0	\$0	\$0	\$0	\$0	\$0		\$108,432	\$ 0	\$108,432	\$1,192,552	0.242946321	\$26,343.20	\$0	\$26,343.20	\$424,409	0.424346362	\$46,012.81	\$0	\$46,012.81	\$632,925	0.140562815	\$15,241.53	\$0	\$15,241.53	\$289,239



