

Typical Power Plant Cost/Profit Comparison for 100 Megawatts (20 year life cycle)

October 3, 2014

Technology	Coal	Diesel	Natural Gas	Solar or Wind	Nuclear	Syngas/Steam
Capital cost/MW	\$2,950,000	\$2,250,000	\$2,250,000	\$3,500,000	\$4,500,000	\$958,750
Initial Investment 100MW including estimated onsite costs & installation	\$295,000,000	\$225,000,000	\$225,000,000	\$350,000,000	\$450,000,000	\$95,875,000
Decommission cost not including cost hazardous waste	\$40,000,000	\$30,000,000	\$20,000,000	\$25,000,000	\$300,000,000 + ongoing cost hazardous waste	\$2,000,000
Total Capital cost	\$335,000,000	\$255,000,000	\$245,000,000	\$365,000,000	\$750,000,000	\$97,875,000
Total Kwh 20 years	17.52 billion Kwh	17.52 billion Kwh	17.52 billion Kwh	5.11 billion Kwh	17.52 billion Kwh	17.52 billion Kwh
Ratio total capital costs per total Kwh	19.14	14.55	14.00	71.43	42.80	5.59
Total Power Plant Typical Expenses and Revenues for life cycle of 20 years assuming no down time and no inflation						
Tax credits, if any						
Interest on Debt	?	?	?	?	?	?
Maintenance	\$135,254,000	\$95,000,000	\$91,000,000	\$48,000,000	\$322,368,000	*\$44,0,000
Fuel Cost	\$423,458,400	\$4,607,760,000	\$526,388,400	Zero	\$124,041,600	Zero
Base Load Power	Yes	Yes	Yes	No	Yes	Yes
Depreciation	\$295,000,000	\$225,000,000	\$225,000,000	\$350,000,000	\$450,000,000	\$95,875,000
Decommission cost	\$40,000,000	\$30,000,000	\$20,000,000	\$25,000,000	\$300,000,000	\$2,000,000
20 year Revenue @ 8 cents/kwh	\$1,401,600,000	\$1,401,600,000	\$1,401,600,000	\$408,800,000	\$1,401,600,000	\$1,401,600,000
Gross Profit	\$507,887,600	(-\$3,556,160,000)	\$539,211,600	\$14,200,000	\$205,190,400	\$1,259,725,000
Ratio Gross Profit/initial capital cost	1.72	Diesel - 28¢/Kwh to break even	2.39	0.04	0.45	13.1

Syngas/Steam Power systems offered by Magwerks Trust have the lowest ratio of initial capital cost per Kwh and the highest ratio of profits per initial capital cost, with lowest pollution, maximum carbon credits, safest for the environment. The gross profit projected would be reduced by the payment of licensing royalties to the inventor and system developer that are open for negotiations. System life beyond the 20 years possible. Diesel at present fuel cost requires 28 cents/Kwh to break even. Total nuclear costs and waste storage make the profitability questionable.