

TABLE 2-3: Representative Cost Estimates for Selected Central and Off-Grid Power Generation Facilities^w

Fuel and Plant Type	Capacity	Efficiency	Capital Costs (\$/kW)	Fixed Costs (\$/kW-yr)	Variable Costs (\$/kWh)
Natural Gas					
Conventional Gas Turbine	80 MW	28%	368	31	0.064
Best Gas Turbine	140 MW	29.5%	355	28	0.060
Advanced Turbine	80 MW	41%	440	59	0.040
Conventional Combined Cycle	120 MW	43%	503	44	0.041
Best New Combined Cycle	210 MW	45%	473	42	0.038
Advanced Combined Cycle	100 MW	50%	600	63	0.033
Coal					
Conventional Steam Turbine	1000 MW	34%	1290	136	0.027
Best New Coal (CIG/CC)	800 MW	38.2%	1489	142	0.022
Advanced Coal (CIG/ISTIG)	109 MW	42.1%	1121	135	0.018
Nuclear (Chinese Installation) ^x			1809	42 - 180	0.015
Hydroelectric					
Central Station			1800	277	0
Smaller Hydro	1 kW-10 MW		2,000 - 3000		
Small Hydro--China	~100s of kW		420 - 630		
Wind					
			800	67	0.01
Solar Thermal					
	200 MW		1625	126	0.001
Solar Photovoltaic					
			900 - 1800	70 - 140	0.002
Biomass					
Advanced Biomass (BIG/STIG)	103 MW	35.6%	\$1121	110	0.021
Biomass Gasifier	100 kW		505 - 1,665		