

Sensitivity Analysis on Water Availability

Assumption								
Water Consumption in 2022(tons)		2,122,000						
Additional Water Consumption Fee (30%)		50.102						
Additional Water Consumption Fee (20%)		46.248						
Additional Water Consumption Fee (10%)		42.394						
Water Consumption Fee (Global Average by IWA investigating 30 countries in 2022)		TWD 38.54						
Water Consumption Fee Special Price (-10%)		34.686						
Water Consumption Fee Special Price (-20%)		30.832						
Water Consumption Fee Special Price (-30%)		26.978						
Loss Statement								
Water Consumption Fee(TWD)		81,781,880						
81,781,880 (TWD)		Water Consumption in Global(tons)						
		1,800,000	1,900,000	2,000,000	2,122,000	2,500,000	2,800,000	3,000,000
Water Price/Unit in different situation (TWD)	50.102	90,183,600	95,193,800	100,204,000	106,316,444	125,255,000	140,285,600	150,306,000
	46.248	108,220,320	114,232,560	120,244,800	127,579,733	150,306,000	168,342,720	180,367,200
	42.394	119,042,352	125,655,816	132,269,280	140,337,706	165,336,600	185,176,992	198,403,920
	38.54	119,042,352	125,655,816	132,269,280	140,337,706	165,336,600	185,176,992	198,403,920
	34.686	107,138,117	113,090,234	119,042,352	126,303,935	148,802,940	166,659,293	178,563,528
	30.832	85,710,493	90,472,188	95,233,882	101,043,148	119,042,352	133,327,434	142,850,822
	26.978	59,997,345	63,330,531	66,663,717	70,730,204	83,329,646	93,329,204	99,995,576

Sensitivity Analysis on Compliance Risks

Assumption (10% Renewable Energy usage)									
The minimum request from the regulation of renewable energy usage in Taiwan		3,350,000							
Average Electricity Fee TWD/kwh (for industry)		2.91							
Do nothing and pay the fine (2021)		4.00							
Below are compared to the average Electricity Fee									
➤ Purchase by T-RECs		+ 2.00							
➤ Purchase by PPA-Wind		+ 1.60							
➤ Purchase by PPA-hydro		+ 1.00							
➤ Build and Self-PV transferred (20 years average, exclude the loan interest)		- 1.30							
➤ Build and Self-hydro transferred (20 years average, exclude the loan interest)		- 1.00							
Loss Statement									
Cost of Electricity Fee		9,748,500							
Highest Additional cost (annual)		13,400,000							
Lowest Addition Cost		- 3,350,000							
		Electricity Usage in Taiwan(kWh)							
9,748,500 (TWD)		20,000,000	25,000,000	30,000,000	33,500,000	35,000,000	37,500,000	40,000,000	42,500,000
Electricity Price/Unit from the regulation of renewable energy usage in Taiwan (TWD)	6.91	138,200,000	172,750,000	207,300,000	231,485,000	241,850,000	259,125,000	276,400,000	293,675,000
	4.91	178,200,000	222,750,000	267,300,000	298,485,000	311,850,000	334,125,000	356,400,000	378,675,000
	4.51	210,200,000	262,750,000	315,300,000	352,085,000	367,850,000	394,125,000	420,400,000	446,675,000
	3.91	230,200,000	287,750,000	345,300,000	385,585,000	402,850,000	431,625,000	460,400,000	489,175,000
	1.61	204,200,000	255,250,000	306,300,000	342,035,000	357,350,000	382,875,000	408,400,000	433,925,000
	1.91	184,200,000	230,250,000	276,300,000	308,535,000	322,350,000	345,375,000	368,400,000	391,425,000
	2.91	184,200,000	230,250,000	276,300,000	308,535,000	322,350,000	345,375,000	368,400,000	391,425,000