Table S1. Economic evaluation of the 500 MW coal-fired power plant installed 400 tCO2/day class CCU plant.

Classification		Sum	Construction			Operation																								
			1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
500 MW coal-fired power plant	PV Capex (M USD)	395.67	43.75	122.67	229.25																									
	PV Opex (M USD)	473.17				37.92	35.42	33.17	31	28.92	27	25.25	23.58	22.08	20.67	19.25	18	16.83	15.75	14.75	13.75	12.83	12	11.25	10.50	9.83	9.17	8.58	8	7.5
	PV generated electricity (GWh)	36,338				2914	2724	2545	2379	2223	2078	1942	1815	1696	1585	1481	1385	1294	1209	1130	1056	987	923	862	806	753	704	658	615	575
	LCOE (USD)	23.90																												
500 MW coal-fired thermal power plant + CCU	PV Capex (M USD)	413.92	45.75	128.33	239.83																									
	PV Opex (M USD)	537.75				41.17	40.33	37.67	35.17	32.92	30.75	28.75	26.83	25.08	23.50	21.92	20.5	19.17	17.92	16.75	15.67	14.58	13.67	12.75	11.92	11.17	10.42	9.75	9.08	8.5
	PV generated electricity (GWh)	36,629				2937	2745	2566	2398	2241	2094	1957	1829	1710	1598	1493	1396	1304	1219	1139	1065	995	930	869	812	759	709	663	620	579
	LCOE (USD)	25.98																												