

GPSC Sustainability Performance Data

GRI	DJSI	Required Data	Unit	2019	2020	2021	2022	Target 2022	Target 2030
Environmental									
Environmental Reporting									
N/A	1.1.1	Sustainability Reporting - Coverage							
		Coverage of publicly available sustainability disclosure	% of revenues	100	100	100	100	100	
Environmental Management System									
N/A	2.1.3	EMS: Certification/Audit/Verification							
		Operations that are covered by EMS verified through international standards (e.g. ISO 14001, JIS Q 14001, EMAS certification)	% Coverage	100	100	99.93	99.78	To maintain the ISO 14001: 2015 standard	
		Operation that are received Third party certification / audit / verification by specialized companies	% Coverage	100	100	0.07	0.22		
		Operaiton that are received Internal certification /audit / verification by company's own pecialists from headquarters	% Coverage	100	100	100	100		
Environmental Compliance									
307-1	2.1.4	Environmental Violations							
		Number of violations and legal obligations / regulations (Above 10,000 USD)	Case	0	0	0	0	0	
		Total monetary value of significant fines for non-compliance with environmental laws and regulations (Above 10,000 USD)	Million THB	0	0	0	0	0	
		Total number of non-monetary sanctions for non-compliance with environmental laws and regulations	Case	0	0	0	0	0	
	N/A	Environmental liability accrued at year-end	Million THB	0	0	0	0	0	
	2.5.3	Total actual and opportunity costs (e.g. forgone income) from water-related incidents	Million THB	0	0	0	0	0	
Emissions									
305-1	2.2.1	Total direct GHG emissions (Scope 1)	Tonnes CO ₂ e	11,198,789.45	11,177,882.48	11,844,924.88	12,680,802.16	13,107,431.00	
		i. CO ₂	Tonnes CO ₂ e	11,169,680.15	11,148,563.37	11,805,591.40	12,636,751.34		
		ii. CH ₄	Tonnes CO ₂ e	3,480.33	3,429.03	5,312.70	13,633.84		
		iii. N ₂ O	Tonnes CO ₂ e	23,748.96	25,028.48	24,292.87	27,508.12		
		iv. HFCs	Tonnes CO ₂ e	1,434.14	744.11	1,067.45	2,031.43		
		v. SF ₆	Tonnes CO ₂ e	445.86	117.50	8,660.46	877.43		
		vi. PFCs	Tonnes CO ₂ e	0	0	0	0		
		vii. NF ₃	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
		viii. Biogenic CO ₂ (excluded from total emissions)	Tonnes CO ₂ e	18.35	34.24	47.43	47.47		
305-2	2.2.2	Total indirect GHG emissions from energy purchased and consumed (scope 2) (Location-Based)	Tonnes CO ₂ e	12,644.73	20,522.36	22,726.50	27,850.95	28,409.00	
		Total indirect GHG emissions from energy purchased and consumed (scope 2) (Market-Based)	Tonnes CO ₂ e	12,644.73	20,522.36	22,726.50	27,850.95	28,409.00	
305-3	2.2.3	Total other indirect GHG emissions (Scope 3)	Tonnes CO ₂ e	322,000.24	327,078.19	1,393,955.65	1,555,098.09	1,672,747.00	
		Total Upstream	Tonnes CO ₂ e	322,000.24	327,078.19	1,393,451.13	1,555,098.09		
		i. Purchased goods and services	Tonnes CO ₂ e	0	0	0	0		
		ii. Capital goods	Tonnes CO ₂ e	0	0	0	0		
		iii. Fuel- and energy-related activities (not included in Scopes 1 or 2)	Tonnes CO ₂ e	321,554.86	326,913.35	1,386,325.74	1,550,323.84		
		iv.Upstream transportation & distribution	Tonnes CO ₂ e	111.73	95.52	1,913.09	0		
		v. Waste generated in operations	Tonnes CO ₂ e	0	0	5,208.12	4,685.93		
		vi. Business travel	Tonnes CO ₂ e	333.65	69.32	4.19	88.32		
		vii. Employee commuting	Tonnes CO ₂ e	0	0	0	0		
		viii. Upstream leased assets	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		

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		Other upstream	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
		Total Downstream	Tonnes CO ₂ e	0	0	504.52	0		
		ix. Downstream transportation and distribution	Tonnes CO ₂ e	0	0	504.52	0		
		x. Processing of sold products	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
		xi. Use of sold products	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
		xii. End-of-life treatment of sold products	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
		xiii. Downstream leased assets	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
		xiv. Franchises	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
		xv. Investments	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
		Other downstream	Tonnes CO ₂ e	N/A	N/A	N/A	N/A		
305-4	N/A	Total GHG emission Intensity	Tonnes CO ₂ e/M Wh	0.424	0.436	0.444	0.453		
305-5	2.5.10	GHG emissions reduced as a direct result of reduction initiatives							
		i. Estimated annual CO ₂ e savings	Tonnes CO ₂ e	422,185.00	581,930.00	581,930.00	433,122.00		
		ii. Total annual investment required	THB	661,812,500.00	801,912,500.00	801,912,500.00	368,595,460.00		
		iii. Total anticipated annual cost savings	THB	1,658,136,000.00	1,660,422,082.96	1,660,422,082.96	1,711,239,111.00		
		iv. Average pay-back period	Year	7.98	9.66	9.66	8.51		
305-6	N/A	Emissions of ozone depleting substances (ODS)	tCFC-11e	N/A	N/A	N/A	N/A		
305-7		Other significant air emissions							
	2.2.4	Direct NOx emissions	Tonnes	5,819.48	6,964.07	12,826.85	12,613.98	12,870.00	
	2.2.5	Direct SOx emissions	Tonnes	3,323.46	4,420.87	3,901.18	3,522.34	4,890.00	
	2.2.6	Direct mercury emission	Tonnes	0.01	0.01	0.003	0.004	0.02	
	2.2.7	Dust emission	Tonnes	142.97	151.95	460.19	475.32	490.00	
	2.2.8	SF6 emissions	Tonnes	0.02	0.0001	0.37	0.04	0.40	
Resource Efficiency and Circularity									
302-1	2.3.1	Energy Consumption							
		A) Total non-renewable fuels purchased and consumed	MWh	43,657,687.90	45,309,560.82	49,970,339.53	52,835,414.94		
		Stationary Combustion:	MWh	43,656,296.14	45,307,227.13	49,959,694.82	52,829,522.03		
		Natural gas	MWh	27,971,657.32	28,593,038.45	34,406,425.42	31,752,734.96		
		Diesel	MWh	3,963.43	1,745.12	1,230,415.62	6,346,684.27		
		Sub bituminous coal	MWh	15,378,604.55	16,369,408.59	14,209,023.38	14,480,360.61		
		Tail gas	MWh	302,070.84	343,034.97	113,830.41	249,742.19		
		Mobile combustion:	MWh	1,391.76	2,333.69	10,644.71	5,892.91		
		Diesel	MWh	380.76	888.30	10,503.20	5,859.25		
		Gasoline	MWh	797.28	1,394.62	81.43	0		
		NGV	MWh	213.72	50.77	50.23	7.36		
		PTT HyForce Premium Diesel	MWh	0	0	9.85	26.29		
		B) Non-renewable electricity purchased	MWh	27,061.47	43,729.94	45,462.09	55,713.05		
		C) Steam/heating/cooling and other energy (non-renewable) purchased	MWh	0	0	0	0		
		i. Non-renewable steam purchased for consumption	MWh	0	0	0	0		
		D) Total renewable energy consumption	MWh	0	0	2,761.11	4,313.25		
		Renewable electricity	MWh	0	0	523.69	682.39		
		Biodiesel B100	MWh	0	0	44.70	0		
		Ethanol E100	MWh	0	0	0	0		
		Gassohol E20	MWh	0	0	77.62	132.49		
		Gassohol E85	MWh	0	0	0.33	14.77		
		Gasohol 91, 95	MWh	0	0	1,071.56	1,469.94		
		Diesel B7, B10	MWh	0	0	1,043.21	1,130.54		
		RDF	MWh				883.13		
		E) Total non-renewable energy (electricity and heating & cooling) sold, (exclude resaled)	MWh	26,460,901.71	25,686,145.33	26,742,032.18	28,023,741.79		
		i.Non-renewable electricity sold (self-generation)	MWh	16,096,940.96	15,666,298.85	16,469,570.04	17,912,203.81		
		ii.Non-renewable steam sold (self-generation)	MWh	10,363,960.75	10,019,846.48	10,252,698.14	10,092,357.98		
		iii.Non-renewable cooling sold (self-generation)	MWheq	0	0	19,764.00	19,180.00		
			MWh	0	0	88,723.72	85,878.46		
		F) Total renewable energy (wind, solar, biomass, hydroelectric, geothermal, etc.) sold	MWh	2,279.46	2,248.43	14,653.60	44,612.08		
		Total non-renewable energy consumption [(A+B+C)-E]	MWh	17,223,847.66	19,667,145.43	23,273,769.44	24,867,386.20	25,601,150.00	

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302-2	N/A	Total energy intensity	MWh/M Wh	0.65	0.77	0.87	0.89		
Waste									
306-3	N/A	Hazardous waste generated (as defined by national legislation)							
		i. Total hazardous waste generated	Tonnes	993.69	657.76	1,018.65	1,500.79		
	N/A	Non-Hazardous waste generated (as defined by national legislation)							
		i. Total non-hazardous waste generated	Tonnes	186,985.33	211,579.78	213,365.37	235,366.14		
306-4	N/A	Total waste diverted from disposal	Tonnes	182,458.72	195,115.96	201,676.66	225,314.79		
		Offsite							
	2.4.2	A. Total hazardous waste diverted from disposal	Tonnes	51.94	49.41	42.95	104.40		
		i. Preparation for reuse	Tonnes	0	0	0	9.00		
		ii. Recycling	Tonnes	38.72	49.41	42.95	95.40		
		iii. Other recovery operations	Tonnes	13.22	0	0	0		
	2.4.1	B. Total non-hazardous waste diverted from disposal	Tonnes	182,406.78	195,066.55	201,633.71	225,210.39		
		i. Preparation for reuse	Tonnes	0	0	0	0		
		ii. Recycling	Tonnes	180,605.80	191,484.40	198,604.67	222,231.41		
		iii. Other recovery operations	Tonnes	1,800.98	3,582.15	3,029.04	2,978.98		
306-5	N/A	Total waste directed to disposal	Tonnes	5,520.30	17,121.59	12,706.85	11,552.14		
		Offsite							
	2.4.2	A. Total weight of hazardous waste directed to disposal	Tonnes	941.75	608.35	975.18	1,396.39	1,700.00	
		i. Incineration (with energy recovery)	Tonnes	731.96	605.88	676.64	433.85		
		ii. Incineration (without energy recovery)	Tonnes	108.67	2.47	295.64	845.62		
		iii. Landfilling	Tonnes	0	0	0	0		
		iv. Other disposal operations	Tonnes	101.12	0	2.91	116.92		
	2.4.1	B. Total weight of non-hazardous waste directed to disposal	Tonnes	4,578.55	16,513.24	11,731.66	10,155.75	10,940.00	
		i. Incineration (with energy recovery)	Tonnes	4.14	107.14	85.20	54.10		
		ii. Incineration (without energy recovery)	Tonnes	0	15.52	0	96.45		
		iii. Landfilling	Tonnes	3,859.60	11,924.47	11,458.27	9,929.07		
		iv. Other disposal operations	Tonnes	714.81	4,466.11	188.19	76.13		
	N/A	On-site waste storage							
		Hazardous waste	Tonnes	0	0	0.50	0		
		Non-Hazardous waste	Tonnes	0	0	0	0		
N/A	2.4.3	Ash and Gypsum Waste							
		Total ash & gypsum waste recycled/reused	Tonnes	180,423.83	191,284.09	198,831.96	219,805.47		
		Total ash & gypsum waste disposed	Tonnes	1,046.92	500.20	518.34	2,066.21	2,200.00	
G4-EN24	N/A	Significant Spills							
		Number of spills to environment	Case	0	0	0	0		
		Quantity of spills to environment	Liters	0	0	0	0		
Water									
303-3	N/A	Water Consumption							
		Water Withdrawal by Sources							
		Total water withdrawn from all areas	M Liters	2,026,158.21	1,953,221.99	-	1,800,787.67		
	2.5.1	A. Total water withdrawal from fresh water (≤1,000 mg/L TDS)	M Liters	53,327.31	47,508.94	-	33,765.41		
		i. Surface water	M Liters	78.34	91.12	0	1,725.35		
		ii. Groundwater	M Liters	0	0	0.88	4,069.48		
		iii. Third-party water	M Liters	53,327.31	47,417.82	36,824.59	27,970.58		
		B. Total water withdrawal from other water (>1,000 mg/L TDS)	M Liters	1,972,830.90	1,905,713.05	1,556,106.45	1,767,022.27		
		i. Surface water	M Liters	0	0	0	4,306.69		
		ii. Groundwater	M Liters	0	0	0	0		
		iii. Seawater	M Liters	1,972,830.90	1,905,713.05	1,556,085.92	1,762,715.57		
		iv. Third-party water	M Liters	0	0	20.54	0		
	2.5.2	Total water withdrawn from water stress area	M Liters	0	0	0	0		
		A. Total water withdrawal from fresh water (≤1,000 mg/L TDS)	M Liters	0	0	0	0		
		i. Surface water	M Liters	0	0	0	0		
		ii. Groundwater	M Liters	0	0	0	0		
		iii. Third-party water	M Liters	0	0	0	0		
		B. Total water withdrawal from other water (>1,000 mg/L TDS)	M Liters	0	0	0	0		
		i. Surface water	M Liters	0	0	0	0		
		ii. Groundwater	M Liters	0	0	0	0		
		iii. Seawater	M Liters	0	0	0	0		
		iv. Third-party water	M Liters	0	0	0	0		
	N/A	Total water withdrawal index	m ³ /MWh	76.57	76.04	-	64.16		
303-4	N/A	Water Discharge							
		Total water discharge to all areas	M Liters	2,007,377.80	1,935,760.16	1,558,794.98	1,765,700.72		
	2.5.1	A. Total water discharge fresh water (≤1,000 mg/L TDS)	M Liters	32,748.97	28,217.79	1,956.74	1,925.06		
		i. Surface water	M Liters	690.00	457.35	1,948.53	1,654.35		
		ii. Groundwater	M Liters	0	0	0	0		
		iii. Seawater	M Liters	0	0	0	79.23		

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	2.5.2	iv. Third-party water	M Liters	32,058.97	27,760.43	8.21	191.48			
		B. Total water discharge to other water (>1,000 mg/L TDS)	M Liters	1,974,628.82	1,907,542.38	1,556,838.24	1,763,775.66			
		i. Surface water	M Liters	0	0	670.18	641.56			
		ii. Groundwater	M Liters	0	0	0	0			
		iii. Seawater	M Liters	1,973,848.51	1,907,003.84	1,556,168.06	1,762,917.07			
		iv. Third-party water	M Liters	780.31	538.54	0	217.03			
		Total water discharge to water stress area	M Liters	0	0	0	0			
		A. Total water discharge fresh water (≤1,000 mg/L TDS)	M Liters	0	0	0	0			
		i. Surface water	M Liters	0	0	0	0			
		ii. Groundwater	M Liters	0	0	0	0			
		iii. Seawater	M Liters	0	0	0	0			
		iv. Third-party water	M Liters	0	0	0	0			
		B. Total water discharge other water (>1,000 mg/L TDS)	M Liters	0	0	0	0			
		i. Surface water	M Liters	0	0	0	0			
	ii. Groundwater	M Liters	0	0	0	0				
	iii. Seawater	M Liters	0	0	0	0				
	iv. Third-party water	M Liters	0	0	0	0				
	N/A	Water reused & recycled								
		Water reused/ recycled	M Liters	365.15	302.90	175.17	71.95			
		Recycled & Reused water	%	0.02	0.02	0.011	0.004			
Number of incidents of non-compliance with discharge limits		Cases	0	0	0	0				
303-5	N/A	Water Consumption								
		Total water consumption in all areas	M Liters	18,858.75	17,461.83	34,136.95	35,086.95			
	2.5.2	Total net freshwater consumption in water-stressed areas (Total water withdrawals – Total water discharges)	M Liters	0	0	0	0	0		
	N/A	Change in Water Storage	M Liters	0	0	0	0			
	2.5.1	E. Total Net Fresh Water Consumption (Total water withdrawal from fresh water - Total water discharge fresh water, excluded Third party water)	M Liters	52,715.64	47,051.59	34,876.95	32,111.06	32,720.00		
N/A	2.5.4	Exposure to Water Stressed Areas								
		No. of production plants in last FY in water-stressed areas	Plants	0	0	0	0			
		Total No. of production plants in last FY	Plants	0	0	0	0			
		Percentage of production plants in water-stressed areas	%	0	0	0	0			
		Percentage of Cost of goods sold (COGS) of plants in water-stressed areas	%	0	0	0	0			
	2.5.3	Total actual and opportunity costs (e.g. forgone income) from water-related incidents	THB	0	0	0	0			
Biodiversity										
N/A	2.7.4	a) Overall - The total number and the total area of your own operational sites								
		i. Number of site	Number	6	19	21	22			
		ii. Total area of the site	Hectares	28.59	78.147	79.50	84.07			
		b) Assessment- The biodiversity impact assessments in the past five years								
		i. Number of site	Number	1	19	21	22			
		ii. Total area of the site	Hectares	1.95	78.147	79.50	84.07			
		c) Exposure – The number of sites that have a significant biodiversity impact, or are in proximity to critical biodiversity								
		i. Number of site	Number	0	0	0	0			
		ii. Total area of the site	Hectares	0	0	0	0			
		d) Management plans - The sites that have a biodiversity management plan								
		i. Number of site	Number	0	19	21	22			
		ii. Total area of the site	Hectares	0	78	79.50	84.07			
Sector Disclosure: Electric Utilities										
EU11	2.8.3	Efficiency of Generation								
		Average annual efficiency for total energy sold (electricity+steam sent out/energy input)	%	56.34	55.28	56.17	58.61			
		i. Coal plants	%	45.36	45.18	46.06	44.70			
		ii. open-/combined-cycle gas plants	%	63.23	62.67	61.60	65.87			
		Average annual efficiency for electricity (electricity sent out/energy input)	%	44.26	43.48	43.64	45.56			
		i. Coal plants	%	41.48	41.46	41.70	40.87			
		ii. open-/combined-cycle gas plants	%	46.50	45.42	44.97	48.64			
N/A		Average age of plants								
		i. Coal plants average age	Years	13.00	14.00	15.00	16.00			
		Total number of coal plants	Number	3	3	3	3			
		ii. Open-/combined-cycle gas plants average age	Years	15.79	15.66	16.66	17.66			
		Total number of gas plants	Number	13	14	14	14			
EU28	N/A	Number of Customers (transmission + distribution)	Number	N/A	135	145	122			

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EU28	N/A	Power outage frequency (transmission + distribution)	System Average Interruption Frequency Index (SAIFI)	N/A	0.26	0.32	0		
		Number of power outages (transmission + distribution)	Number	N/A	35	47	19		
EU29	N/A	Average power outage duration (transmission + distribution)	System Average Interruption Duration Index (SAIDI)	N/A	2.82	0.85	0		
		Total time of disruption (transmission + distribution)	Hours	N/A	530	148.77	52		
EU30	2.8.4	Average plants availability factor by energy source and by regulatory regime							
		i. Coal plants	%	N/A	98.16	92.57	96.03		
		ii. Gas plants	%	99.43	97.34	97.10	97.95		
		Plants' Availability							
N/A		i. Coal plants	Number	3	3	3	3		
		ii. Gas plants	Number	13	14	14	14		
N/A	2.3.2	Electricity Transmission and Distribution Losses							
		Transmission losses	%	0.011	0.003	0.004	0.004		
		Total energy transmitted	MW	192.93	654.12	672.12	679.90		
		Total energy transmission losses	MW	0.02	0.02	0.02	0.02		
		Technical Distribution losses	%	0.188	0.082	0.081	0.078		
		Total energy distributed	MW	45.53	186.78	190.61	202.17		
		Total energy distribution losses	MW	0.09	0.15	0.15	0.16		
N/A	2.3.3	Electricity Transmission and Distribution Reliability							
		SAIDI transmission network	Hours	0.767	0.210	0.150	0.00		
		Transmission reliability (ASAI)	%	99.991	99.998	99.998	100.00		
		Total number of transmission customers	Number	12	42	42	48		
		Transmission disruption in hours	Hours	9.20	8.80	6.31	0.00		
		SAIDI distribution network	Hours	5.795	0.313	0.567	0.696		
		Distribution reliability (ASAI)	%	99.934	99.996	99.994	99.99		
		Total number of distribution customers	Number	15	72	72	74		
		Distribution disruption in hours	Hours	86.93	22.50	40.82	51.52		
N/A	2.8.1	Electricity Generation Mix							
		Non-renewable energy sources							
		Gross generation own assets							
		Coal	GWh	N/A	N/A	5,907	5,306		
		Nuclear	GWh	N/A	N/A	0	0		
		Natural Gas	GWh	N/A	N/A	13,519	9,502		
		Oil	GWh	N/A	N/A	0	3,138		
		Other non-RE	GWh	N/A	N/A	0	0		
		Total gross generation own assets by non-renewable energy sources	GWh	N/A	N/A	19,427	17,947		
		Share generation own assets							
		Coal	%	N/A	N/A	26.38	22.76		
		Nuclear	%	N/A	N/A	0	0		
		Natural Gas	%	N/A	N/A	60.38	40.76		
		Oil	%	N/A	N/A	0	13.46		
		Other non-RE	%	N/A	N/A	0	0		
		Total share generation own assets by non-renewable energy sources	%	N/A	N/A	86.76	76.97		
		Revenue generated							
		Coal	THB	N/A	N/A	15,088,655,595.41	23,995,827,572.35		
		Nuclear	THB	N/A	N/A	0	0		
		Natural Gas	THB	N/A	N/A	60,718,101,115.44	56,593,987,922.12		
		Oil	THB	N/A	N/A	0	19,752,644,797.75		
		Other non-RE	THB	N/A	N/A	0	0		
		Total revenue generated by non-renewable energy sources	THB	N/A	N/A	75,806,756,710.85	100,342,460,292.22		
		Electricity from non-renewable energy sources purchased from third-parties and sold	GWh	N/A	N/A	54.24	19.38		
		Renewable energy sources							
		Gross generation own assets							
		Wind	GWh	N/A	N/A	0	0		
		Hydro	GWh	N/A	N/A	1,917.75	668.90		
		Solar	GWh	N/A	N/A	1,003.81	4,699.60		
		Biomass	GWh	N/A	N/A	0	0		
		Geothermal	GWh	N/A	N/A	0	0		
		Landfill gas	GWh	N/A	N/A	0	0		
		Wave tidal	GWh	N/A	N/A	0	0		
		Wave tidal	GWh	N/A	N/A	0	0		
		Other RE (Waste)	GWh	N/A	N/A	41.77	0.013		

GPSC Sustainability Performance Data

GRI	DJSI	Required Data	Unit	2019	2020	2021	2022	Target 2022	Target 2030
		Total gross generation own assets by renewable energy sources	GWh	N/A	N/A	2,963.33	5,368.51		
		Share generation own assets							
		Wind	%	N/A	N/A	0	0		
		Hydro	%	N/A	N/A	8.57	2.869		
		Solar	%	N/A	N/A	4.48	20.157		
		Biomass	%	N/A	N/A	0	0		
		Geothermal	%	N/A	N/A	0	0		
		Landfill gas	%	N/A	N/A	0	0		
		Wave tidal	%	N/A	N/A	0	0		
		Wave tidal	%	N/A	N/A	0	0		
		Other RE (Waste)	%	N/A	N/A	0.19	0.00006		
		Total share generation own assets by renewable energy sources	%	N/A	N/A	13.24	23.03		
		Revenue generated							
		Wind	THB	N/A	N/A	0	0		
		Hydro	THB	N/A	N/A	14,745,143,584.65	810,116,098.89		
		Solar	THB	N/A	N/A	4,031,925,850.71	91,640,056.22		
		Biomass	THB	N/A	N/A	0	0		
		Geothermal	THB	N/A	N/A	0	0		
		Landfill gas	THB	N/A	N/A	0	0		
		Wave tidal	THB	N/A	N/A	0	0		
		Wave tidal	THB	N/A	N/A	0	0		
		Other RE (Waste)	THB	N/A	N/A	445,960,023.15	563,612,045.03		
		Total revenue generated by renewable energy sources	THB	N/A	N/A	19,223,029,458.51	1,465,368,200.14		
		Electricity from renewable energy sources purchased from third-parties and sold	GWh	N/A	N/A	0	0		
		Total electricity generation sold	GWh	N/A	N/A	22,444.48	17,976.19		
		Carbon Intensity	tCO2e/G Wh	N/A	N/A	440.00	452.78		
EU2	N/A	Net Energy Generated by type	Total	26,463,181.17	25,688,432.27	26,756,685.77	28,068,353.87		
		Electricity Production	MWh	16,099,220.42	15,668,585.79	16,484,223.63	17,956,815.89		
		Coal	MWh	5,748,431.01	6,290,596.92	5,461,828.11	5,305,992.34		
		Nuclear	MWh	0	0	0	0		
		Natural Gas	MWh	10,348,509.95	9,375,701.93	11,007,741.93	9,500,030.02		
		Oil	MWh	0	0	0	3,106,181.45		
		Hydro, large (units>10MW)	MWh	0	0	0	0		
		Wind	MWh	0	0	0	0		
		Other renewables (Solar, small hydro (units <10MW), geothermal, biomass, etc.)	MWh	2,279.46	2,286.94	14,653.60	44,612.08		
		Steam Production	MWh	10,363,960.75	10,019,846.48	10,252,698.14	10,092,357.98		
		Natural Gas	MWh	9,080,854.16	8,692,644.93	9,034,033.69	9,056,604.98		
		Bituminous Coal	MWh	1,283,106.59	1,327,201.55	1,218,664.45	1,035,752.99		
		District Cooling Production	MWh	0	0	19,764.00	19,180.00		
		District Cooling	MWh	0	0	19,764.00	19,180.00		
		Capacity under construction including purchased power and reserve margins	MW	281	303	1,419	1,419		
		Generation capacity	MW	1,942	4,752	5,703	5,703		12,411
		Coal	MW	0	818	814	814		429
		Nuclear	MW	0	0	0	0		0
EU10	N/A	Natural Gas	MW	1,536	3,397	3,403	3,403		3,083
		Oil	MW	0	0	0	0		0
EU1	2.8.2	Other non-renewable energy sources (Petroleum Pitch)	MW	0	0	0	0		250
		Total non-renewable energy sources	MW	1,536	4,216	4,217	4,217		3,762
		Wind	MW	0	0	0	0		74
		Hydro	MW	347	449	449	449		347
		Solar	MW	59	85	1,024	1,024		8,215
		Other renewable energy sources (Waste)	MW	0	3	13	13		13
		Total renewable energy sources	MW	406	537	1,486	1,486		8,649
		Total energy sources	MW	1,942	4,752	5,703	5,703		12,411
		Share of capacity							
		Coal	%	0.00	17.22	14.27	14.27		3.46
		Nuclear	%	0.00	0.00	0.00	0.00		-
		Natural Gas	%	79.08	71.49	59.67	59.67		24.84
		Oil	%	0.00	0.00	0.00	0.00		-
		Other non-renewable energy sources	%	0.00	0.00	0.00	0.00		2.01
		Total non-renewable energy sources	%	79.08	88.71	73.95	73.95		30.31
		Wind	%	0.00	0.00	0.00	0.00		0.60
		Hydro	%	17.86	9.45	7.87	7.87		2.80
		Solar	%	3.06	1.79	17.96	17.96		66.19
		Other renewable energy sources (Waste)	%	0.00	0.06	0.22	0.22		0.10
		Total renewable energy sources	%	20.92	11.29	26.05	26.05		69.69
		Total energy sources	%	100	100	100	100		100
		Total installed electricity generation capacity	MW	1,942	4,752	5,703	5,703		

Remarks: GPSC reports the environmental performance data on an equity share basis.