

LEADING ASIAN ENERGY PLAYER

Sembcorp is a leading Asian energy player and established urban developer. We play a key role in the transition towards a sustainable and low-carbon future.

Total Energy Portfolio

25.9GW

Across 10 Countries

From Renewable Energy

16.5GW*

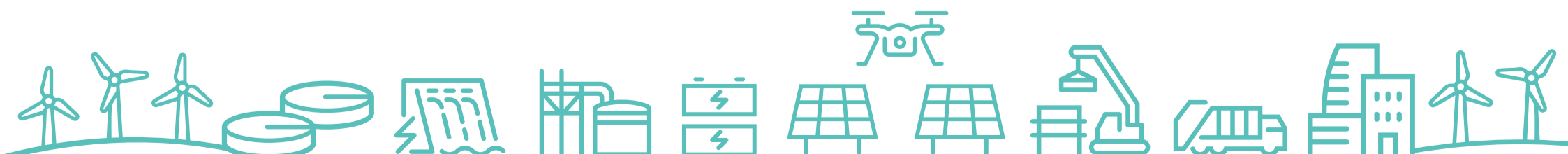
*Total gross capacity assumes 100% ownership of assets, including projects secured and under construction, and an acquisition pending completion.

49.4%

TEMASEK HOLDINGS Shareholding



					
 WIND 7.4GW			 SOLAR 7.7GW		
					
 ENERGY STORAGE SYSTEMS 1.3GWh		 HYDRO 49MW		 GAS AND RELATED SERVICES 8.0GW	



MYANMAR'S LANDMARK POWER PLANT

SEMBCORP MYINGYAN POWER COMPANY



Water pipelines transport feedwater to the power plant and discharge treated wastewater from the power plant



230kV transmission towers transmit electricity from the power plant to the national power grid



Water pump station draws water from Ayawaddy River to be used for the power plant's steam turbines and cooling systems



6.6kV overhead transmission lines supply electricity from the power plant to the water pump station



One of the largest and most efficient power plants



First internationally financed independent power project



First to power entire Administrative Building and Warehouse with solar energy



Environmental and Social Impact Assessment (ESIA) done in accordance with national and international standards



99% Myanmar nationals (24% from Myingyan District)
1% Foreigners

MITIGATING ENVIRONMENTAL IMPACT

We implement a robust environmental management plan to mitigate potential impacts on the surrounding environment, in accordance with the guidelines of the Ministry of Natural Resources and Environmental Conservation (MONREC) and the World Bank[^].

AIR QUALITY MANAGEMENT

- Emissions monitored and reduced following MONREC standards
- Air pollutants dispersed by air emission stacks to reduce ground level concentration
- NOx emissions reduced to below 25ppm at all times by built-in NOx burners
- Continuous Emission Monitoring Systems (CEMS) installed

Ambient Air Quality Readings (Tested quarterly)*

Parameters	March 2024				June 2024				September 2024				December 2024				MONREC	World Bank	Unit
	ASR 4	ASR 3	ASR 5	ASR 14	ASR 4	ASR 3	ASR 5	ASR 14	ASR 4	ASR 3	ASR 5	ASR 14	ASR 4	ASR 3	ASR 5	ASR 14			
PM ₁₀	10.96	11.71	11.49	9.19	6.86	7.70	9.21	8.04	4.36	4.69	5.36	4.31	8.85	10.89	7.99	10.33	-	50	µg/m ³
PM _{2.5}	5.56	5.87	5.82	4.63	3.59	3.86	4.64	4.03	2.17	2.37	2.67	2.15	4.51	5.39	4.37	5.06	-	25	µg/m ³
CO	0.00028	0.00016	0.00014	0.0001	0.00018	0.00019	0.00008	0.00012	0.00003	0.00004	0.00005	0.00002	8E-05	0.0001	7E-05	9E-05	-	9	ppm
CO ₂	326.42	358.07	316.37	477.34	451.80	447.20	441.49	479.36	468.65	426.30	470.33	427.29	340.66	349.69	328.3	317.84	-	5000	ppm
SO ₂	0.09	0.15	0.12	0.08	0.16	0.20	0.16	0.23	0.09	0.06	0.06	0.05	0.1	0.1	0.088	0.082	20	20	µg/m ³
NO ₂	8.33	10.99	7.18	8.21	4.54	4.39	4.54	4.20	16.48	13.22	9.84	9.43	8.76	8.03	7.91	6.74	200	200	ug/m ³

WASTEWATER MANAGEMENT

- Liquid effluents treated at Sewage Treatment Plant to meet MONREC standards before discharge
- Online sensors installed at Central Monitoring Basin for pH, turbidity and chlorine levels ensure standards compliance to ensure non-disruption of effluent discharge
- Wastewater from canteen kitchens are discharged into sanitary sewers via grease traps
- Regular monitoring of wastewater quality conducted by internal and external parties

Surface Water Quality (Tested monthly internally and quarterly by 3rd party)*

No	Parameters	Unit	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	MONREC & World Bank
1	Wastewater Discharge (pH)	S.U.	8.06	8.2	8.15	8.1	8.36	8.20	8.78	7.68	7.80	8.2	8.36	7.31	6-9
2	TSS ¹	mg/l	13	7	8	7	10	2	19	8	8	7	7	2	50
3	COD	mg/l	0	0	7.2	0	0	11.1	48	57	20.4	20	10	18.4	125
4	Oil & Grease ¹	mg/l	-	-	<3.1	-	-	<3.1	-	-	<3.1	-	-	<3.1	10
5	Total Nitrogen	mg/l	0	2	3.3	3	8	1.9	1	0	<0.5	0	6	6	10
6	Total Phosphorus	mg/l	0.78	1.4	1.49	1.43	1.6	1.75	0.45	0.33	1.45	1.6	0	0.29	2
7	Mercury ¹	mg/l	-	-	<0.002	-	-	<0.002	-	-	<0.002	-	-	<0.002	0.005
8	Zinc ¹	mg/l	-	-	0.484	-	-	0.348	-	-	0.866	-	-	0.008	1
9	Arsenic ¹	mg/l	-	-	<0.010	-	-	<0.010	-	-	<0.010	-	-	<0.010	0.5
10	Total Chromium ¹	mg/l	-	-	<0.002	-	-	<0.002	-	-	<0.002	-	-	<0.002	0.5
11	Cadmium ¹	mg/l	-	-	<0.002	-	-	<0.002	-	-	<0.002	-	-	<0.002	0.1
12	Copper ¹	mg/l	-	-	<0.002	-	-	<0.002	-	-	<0.002	-	-	<0.002	0.5
13	Lead ¹	mg/l	-	-	<0.002	-	-	<0.002	-	-	<0.002	-	-	<0.002	0.5
14	Iron	mg/l	0.11	0.13	0.058	0.11	0.08	0.002	0.11	0.112	0.802	0.125	0.16	0.144	1
15	Total Chlorine	mg/l	0	0	0.1	0	0	0.1	0.02	0.00	0.1	0	0	0.1	0.2
16	Temperature Increase	°C	2.3	2.5	2.7	2.12	2.6	2.5	2.3	2.8	2.7	2.5	2.3	2.2	<3

NOISE MANAGEMENT

- Noise quality inside and outside the plant monitored regularly to ensure compliance with MONREC standards

Noise Levels (Tested quarterly)*

Monitoring point		Mar-24	Jun-24	Sep-24	Dec-24	MONREC & World Bank	Unit
Sembcorp Myingyan Power Plant	Day	41.93	52.50	45.87	57.73	70	db
	Night	42.65	49.48	45.65	62.91	70	db

*Highest recorded readings

[^]MONREC Guidelines:

<https://www.ecd.gov.mm/wp-content/uploads/2020/12/National-Environmental-Quality-Emission-Guidelines.pdf>

World Bank Guidelines:

<https://www.ifc.org/content/dam/ifc/doc/2000/2008-thermal-power-ehs-guidelines-en.pdf>

¹IFC EHS Guidelines 2008 (Thermal Power):

<https://www.ifc.org/content/dam/ifc/doc/2000/2008-thermal-power-ehs-guidelines-en.pdf> and

²Intervention values for Soil Remediation (Dutch Standard, 2000):

https://support.esdat.net/Environmental%20standards/dutch/annexs_i2000dutch%20environmental%20standards.pdf

WASTE MANAGEMENT

- Domestic, industrial and hazardous waste materials regularly collected and disposed of by authorised collector
- Medical waste incinerated in the Myingyan Hospital compound
- Sludge properly disposed of in designated sludge disposal area outside of Myingyan

Sludge Quality (Tested biannually)*

No	Parameters	Unit	Jun-24	Dec-24	Dutch Standard ²
1	Cadmium	mg/kg	6.086	3.4	12
2	Arsenic	mg/kg	0.34	0.34	55
3	Lead	mg/kg	61.506	14.62	530
4	Mercury	mg/kg	0.068	0.068	10
5	Selenium	mg/kg	0.34	0.34	100
6	Chromium	mg/kg	7.038	5.78	380
7	pH (sludge pH measured in water at 25°C)		8.05	7.52	



GIVING BACK TO OUR COMMUNITY

Our operations in Myingyan have contributed to local job creation and facilitated knowledge transfer within the community. In 2024, we successfully implemented 21 initiatives aimed at enhancing the quality of life for local residents. These initiatives provided support across key areas, including education, healthcare, clean energy, access to safe drinking water, and disaster relief.



Improving Livelihood Skills
Trained 24 women in basic tailoring and design



Raising Health Awareness
Conducted a 11-day health awareness programme and offered free consultation and essential medicines



Solar Street Lights
Enhanced safety & quality of life



Infrastructure Enhancements
Built fences for school & clinic compound



Access to Clean Drinking Water
Contributed 140 water filters to support community water treatment system

Flood Relief
Donated over 900 20-litre bottles of drinking water



Storage Containers
Provided clean containers to communities



Completion Status of CSR Activity Plan for Year 2024

No	Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	13 Villages - Water Treatment Filters Support												
2	Sate Nyan Village School - Damaged Solar Panel Replacement												
3	13 Villages - Medical Camp												
4	Sarkhaar Village - Tailor Training Class												
5	Sarkhaar Village - Solar Streetlight												
6	Phet Taw Village - Solar Streetlight												
7	Theim Village - Solar Streetlight												
8	Hta Naung Tai Village - Solar Streetlight												
9	Aye Village - Solar Streetlight												
10	Riverbank area Villages – Flood Support – Drinking Water Contribution												
11	Hnan Village School												
12	Ma Yoe Kone Village Clinic												
13	Hta Naung Tai Village - Tailor Training Class												
14	Kyun U Village - Solar Streetlight												
15	Sate Nyan Village - Solar Streetlight												
16	Tha Pyay Thar Village - Solar Streetlight												
17	Ka Lain Chone Village - Solar Streetlight												
18	Nyaung Kan Village - Solar Streetlight												
19	Gyoke Pin Village - Solar Streetlight												
20	Contribution Cleaned Container to Community												
21	Riverbank area Villages - Flood Support – Solar System Reinstallation												



ENGAGING OUR STAKEHOLDERS

We actively engage with our stakeholders by hosting annual public meetings and organizing regular initiatives throughout the year to foster ongoing collaboration and communication.



We value your feedback!
Scan here to share your thoughts with us.

Sembcorp values and encourages feedback from all stakeholders as they play a vital role in our continuous improvement efforts.

To ensure transparency and effective resolution, all village representatives are part of a dedicated Grievance Committee tasked with addressing suggestions and concerns from affected individuals.

If you have any suggestions, issues, or concerns, please submit through the suggestion boxes or by contacting any Sembcorp staff directly.

The Grievance Committee includes representatives from:

- Village communities
- Electric Power Generation Enterprise (EPGE)
- Sembcorp Myingyan Power Company (SMPC) including:
 - Government Affairs Manager
 - Plant Manager
 - HR & Admin Manager
 - HSSE Manager
 - Community Relations Team

