

Electrolyser Manufacturing:

A. Existing capacity

At present, India has electrolyser manufacturing capacity of nearly 2 GW/yr, contributed wholly by Ohmium, a US based PEM electrolyser manufacturer.¹ The factory was launched near Bengaluru in July 2024. The factory is expandable to a capacity of 4 GW/yr.

B. Planned capacity

It is estimated that India might have an electrolyser manufacturing capacity of 15-17 GW/yr by 2030 basis announcements. Some of the announcements are mentioned in Table 2 below. Please note that these capacities are independent of SIGHT scheme under NGHM. The offtakers of these electrolysers are also unclear at present.

Company	Electrolyser OEM partner	Announced Capacity (GW/yr)	Source
Ohmium	-	2	2
Reliance	Stiesdal ³ / Nel	2.5	4
Adani	Cavendish	5	5
Greenko	John Cockerill	2	6
L&T	HydrogenPro ⁷ / McPhy	1	8
HomiHydrogen	Oil India Limited	1.5	9
Greenzo	-	0.25	10
Indify Fuel Cell Pvt Ltd	HET Hydrogen	1	11
GR Group	H2B2	1	12

Table 1: Announced electrolyser manufacturing capacity in India

C. Planned capacity as per SECI tenders (SIGHT scheme)

SECI issued tenders in two tranches (I and II) under Mode II of the SIGHT scheme, collectively accounting for 3 GW/yr of electrolyser manufacturing capacity, for which subsidies were awarded by SECI.¹³

¹ [Ohmium Launches Newest PEM Electrolyzer Gigafactory | Ohmium](#)

² [Ohmium Launches Newest PEM Electrolyzer Gigafactory | Ohmium](#)

³ Reliance signed MoU with Nel for electrolyser manufacturing later on, so this announcement might not eventually materialise

⁴ [Clean hydrogen: Reliance Industries bets big on green energy - Industry News | The Financial Express](#)

⁵ [India's Adani Group, Australia's Cavendish partner for hydrogen electrolyser technologies; target MENA demand](#)

⁶ [green hydrogen: Greenko, John Cockerill to set up 2 electrolyser giga factories for green hydrogen - The Economic Times](#)

⁷ L&T later on signed MoU with McPhy for electrolyser manufacturing, so this announcement might not eventually materialise

⁸ [L&T signs MoU with HydrogenPro for manufacturing Hydrogen Electrolysers in India - India's Top Construction magazine | construction industry magazines](#)

⁹ [HomiHydrogen to Establish Electrolyser Manufacturing Facility in India](#)

¹⁰ [The Hydrogen Stream: Greenzo Energy unveils 1 MW alkaline electrolyzer for green hydrogen production – pv magazine India](#)

¹¹ [Horizon to Set up Electrolyser Gigafactory in India - Hydrogen Central](#)

¹² [GreenH Electrolysis to Set Up 1 GW PEM Electrolyzer Plant in India](#)

¹³ [NGHM | Solar Energy Corporation of India Limited \(SECI\)](#)