

Green Hydrogen Generation Plant

CAPABILITY SHEET - ELECTROLYSER + BALANCE OF PLANT - ENGINEERED TO ORDER

THE PLANT

WHAT	A turnkey green hydrogen generation plant - a MW-scale electrolyser plus the full balance of plant that turns raw electrolyser gas into pure, dry, compressed hydrogen.
OUR ROLE	The stack makes the gas; the plant makes it hydrogen. Neometrix delivers the balance of plant (~80% of the works) + EPC; the electrolyser stack is bought in.
STATUS	Engineered to order; turnkey EPC. Electrolyser bought in; BOO via a developer / O&M partner where required. No delivered plant is claimed on this sheet.

POWER, WATER & PURITY

LOAD-FOLLOW	Green power is intermittent. The rectifier and controls load-follow a variable solar/wind input without harming the stack or losing purity - the green-vs-grey hard part.
WATER + DRYING	Feed water is deionised (impurities poison the stack, ~9 L/kg H ₂); the output is de-oxygenated and dried to a low dew point for 99.999% (5N) purity.
PRESSURE	Compressed to ~30 bar delivery and up to 200-350 bar for storage - the HP-gas compression and storage that is Neometrix's core competence.

SAFETY & DISTINCTNESS

H ₂ SAFETY	Hydrogen: smallest molecule, widest flammability, near-invisible flame. ATEX hazardous-area design, leak detection, purging and venting are foundational, to ISO 22734.
CONTROL	A PLC / SCADA load-follows the renewable input, with remote monitoring and production, purity and safety logging.
A PRODUCTION PLANT	Distinct from a refuelling station (which dispenses to vehicles) and from a small power-to-power round-trip system with a fuel cell. Its product is the hydrogen.

SCOPE & ENGAGEMENT

APPLICATIONS	Refinery & ammonia green H ₂ , green-mobility fuel supply, steel & industrial decarbonisation, power-sector H ₂ , port & export, captive industrial hydrogen.
SOURCING	Electrolyser, rectifier, compressors and instrumentation are bought-in proprietary items; Neometrix engineers and integrates the plant around them.
ENGAGEMENT	Send the H ₂ output, purity and power profile to sales@neometrixgroup.com - a clause-by-clause compliance matrix within two working days.

PROJECTS DESK

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