

HighFlex H2® Purification

Consistent gas quality even with fluctuating volume flows

Decades of extensive experience in the field of Hydrogen Purification enabled the development of the HighFlex H2® Purification.

Power-to-Gas implies a volatile renewable power supply for Green Hydrogen plants thus impacting the H₂ quality as the H₂ Purification Unit is forced to operate with low flow rates.

ReiCat's HighFlex H2® solution provides consistent Hydrogen ≥ 5.0 quality even when renewable power supply leads the H₂ Purification Unit to operate only at 10% of the usual volume flow.

Your application

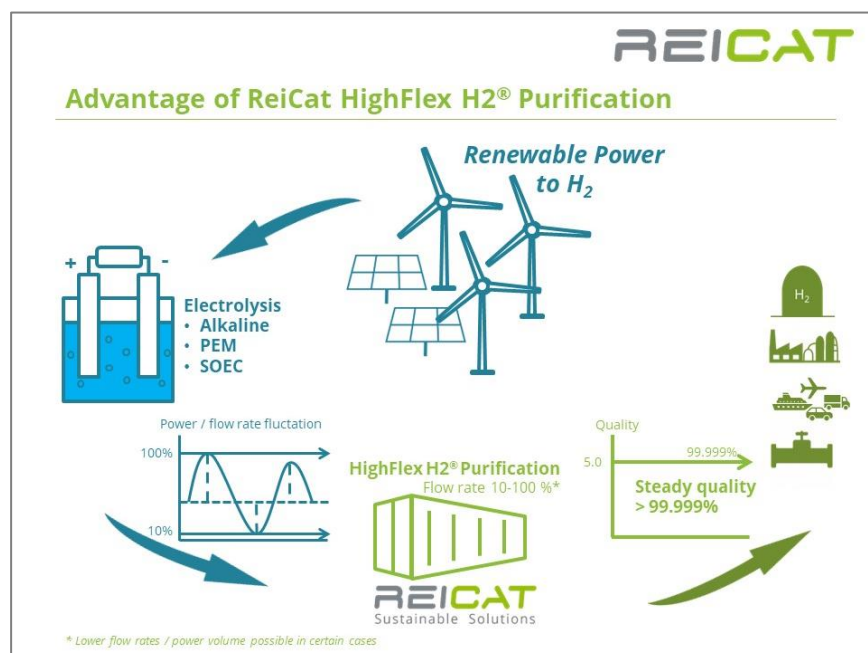
- Green Hydrogen P-t-X
- Wind farm
- Solar farm
- Alkaline electrolysis
- PEM electrolysis
- SOEC electrolysis
- E-Methanol
- Fuel cells
- H₂ mobility
- H₂ filling stations – mobility
- Semiconductors
- Pharma
- Energy
- Aerospace

Our solution

- HighFlex H2® Technology
- for renewable volatile power supply
- solution for unstable H₂ flow rates
- window operation from 10-100% of total flowrate
- lower window operations than 10% possible
- ≥ 5.0 quality at the outlet of the ReiCat unit,
- Operating pressure range: from atm. - 400 bar g

Your advantages

- ☑ Flexibility in operating the complete H₂ plant
- ☑ Start/stop cycle scenarios on daily operation
- ☑ Compliance with SAE J2719 (H₂ for mobility)
- ☑ No booster or rotating parts
- ☑ Proven Technology
- ☑ Small footprint – reduced impact on skid dimensions



Simplified diagram: Constant H₂ quality at volatile renewable power supply