Currento®

High-performing solution for hydrogen generation

Porous transport layer for PEM and AEM electrolysis







Hydrogen generation

HYDROGEN



Overview of Bekaert opportunities across electrolysis technologies

Bekaert field of play: PEM, AEM and HEM

- PEM vs AWE:
 - 2022: 70% AWE & 30% PEM
 - 2030: PEM will grow to 30-50% market share
- PEM vs AEM vs HEM:
 - AEM introduced in ~'25, HEM in ~'28

Electrolyzer technology dominance will depend on **ability to reduce LCOH** (CAPEX and OPEX)

Commercialization roadmap

Relevant: PEM, AEM, HEM / Other: AWE, SOEC





Wire Düsseldorf 2024

Generation





The **porous transport layer** (PTL) is one of the cell components in PEM and AEM electrolysis.

We co-develop a PTL system for your cell design

- You might be **new to these technologies,** it is important to have a partner who can guide you through the process of adapting this technology to your needs.
- You might be in the phase of scaling up, you're looking for a partner who can handle large volumes, reduce costs, and increase lifetime
- You are looking for a partner with a **global footprint**, to ensure contingency.

- Bekaert has over 20 years of experience in manufacturing PTLs.
- Our products are uniform, with consistent quality and delivery.
- PTL dimensions up to 5500 cm².
- TCO optimization





Bringing new energy to hydrogen production



Currento® porous transport layer for hydrogen production









The **porous transport layer** (PTL) is one of the cell components in PEM and AEM electrolysis.

Currento[®] porous transport layer

- High-performing PTL material with intrinsic high permeability and strength
- Available in titanium, platinum-coated titanium, nickel, and stainless steel





