

HYDROGEN PILOT SUMMIT

Provincie Noord-Brabant



18th November 2024, Brussels

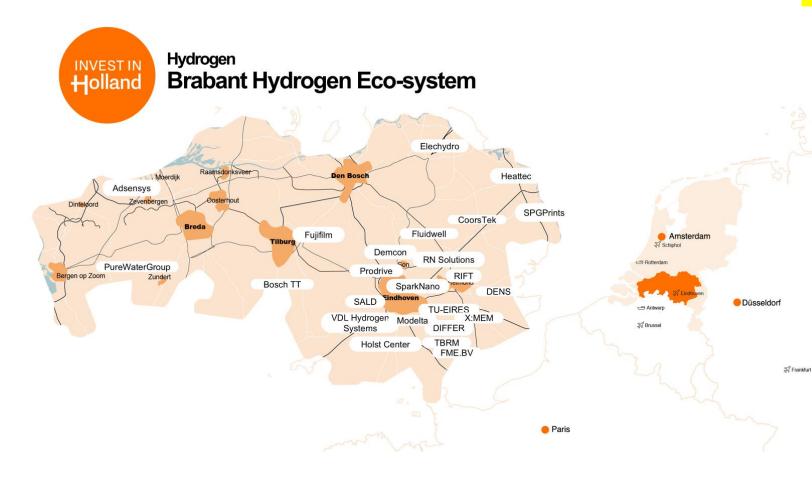








Hydrogen in the region



Innovation Coalition Hydrogen

enabling technology for the world to effectively produce and use green hydrogen

- **Focus** : development of equipment for cost-effective hydrogen production.
- Ambition: Develop and realize a robust H2-High Tech Systems and Materials ecosystem in Brabant based on an innovative 2nd or 3rd generation elektrolyzer (Alkaline (ALK/AEM), Proton Exchange Membrane (PEM) and/or SOEC), produced here using flexible manufacturing systems.
- **Goal:** realization of a strong Brabant supply chain and OEMs / system suppliers with a world-wide position.



ROW

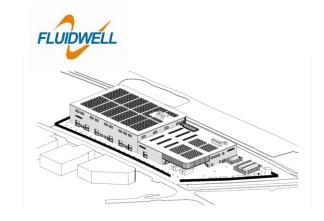
H2 best practices



Spatial ALD tool (application of nano coatings to a surface; works atmospherically) from SALD



Rectifier (important part of elektrolyzer that does the power electronics; power input, conversion, current to water/membrane etc) from ProDrive



P2X test center Tilburg Pitch: Tilburg Test Technology for a CO₂ neutral future





Product D P2X test cer Bosch works assignments Work force (Use generat Liquide, ...) Strong on-si

Value Prop

. at rodu







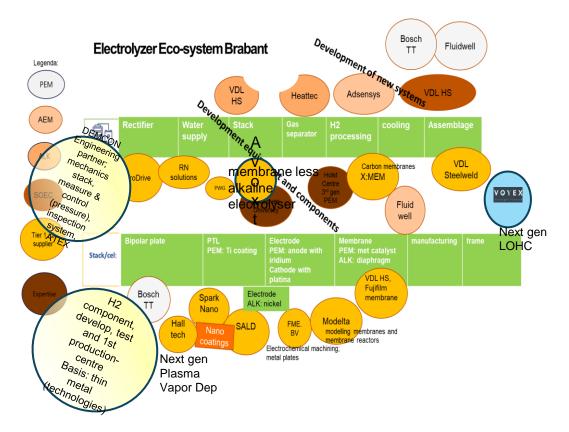
Alkaline elektrolyzer from VDL Hydrogen Systems (system to produce green hydrogen) BOM







Region's offer & needs



- High-tech systems DNA
- New generation elektrolyzer OEMs
- Deposition technologies, Spatial ALD or other special coating technologies
- OEM, tier1 or tier2 in elektrolyzer or fuelcell manufacturing

Needs:

- 1. Membrane / stack companies
- 2. Large scale nickel surface coaters
- 3. New elektrolyzer cell or fuel cell developers
- 4. Companies interested in
 - 1. electro chemical machining;
 - 2. next gen PV CVD tools
 - 3. Spatial ALD
- 5. Turn-key / BOOM companies





BOM

Proposal for collaboration

- B2B projects
 - Crossing border joint business projects and public funding
 - Business matchmaking
- K2K projects
 - Knowledge exchange; joint project development (next gen ALK, next gen SOEC) on elektrolyzer and on stack level
 - No rare earth metals, industrialized production, low energy consumption
 - Joint degrees, business challenges & student projects
- G2G projects
 - Cooperation between governmental bodies to simply and support more business between NL and Polish/Slovenian/Slowak/Spanish/... companies; develop more trade
 - · Joint tenders, joint tendering



Provincie Noord-Brabant

Contact details

- Paul Gosselink
 - program manager new energy
 - Brabant Development Agency (BOM)
 - T +31 (0)6 15 24 98 63
 - E pgosselink@bom.nl I
 - <u>W</u> <u>www.bom.nl</u> and <u>www.brabantisbright.nl</u>





BOM