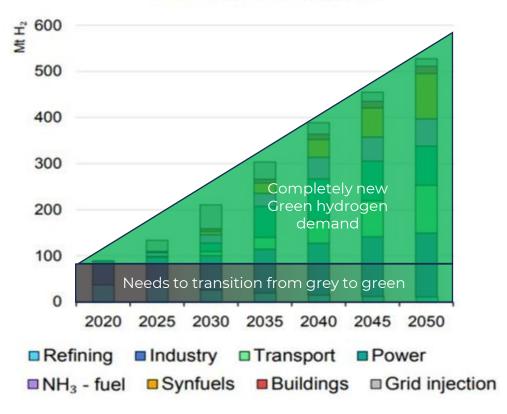




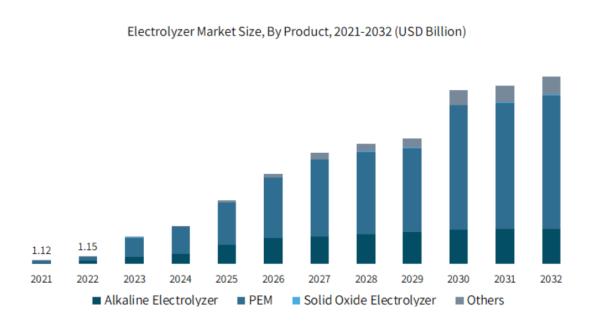
# The demand for hydrogen and electrolysers



#### Net Zero Emissions by 2050



### Electrolyser demand



Source: IEA

Source: GM insights



# The problems with conventional electrolysers

### PEM

Expensive and pollutive PGM materials



#### Alkaline

Low operational flexibility



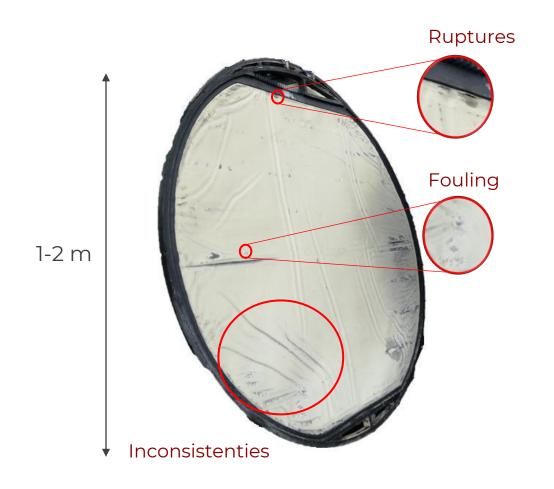
~5 5MW/

All electrolysers

Low energy efficiency Frequent and expensive maintenance



## The weakest link in the electrolysis chain



**Reduces Efficiency** 

Short lifetime 3-5 years

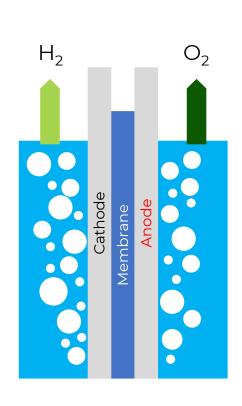
Increases maintenance

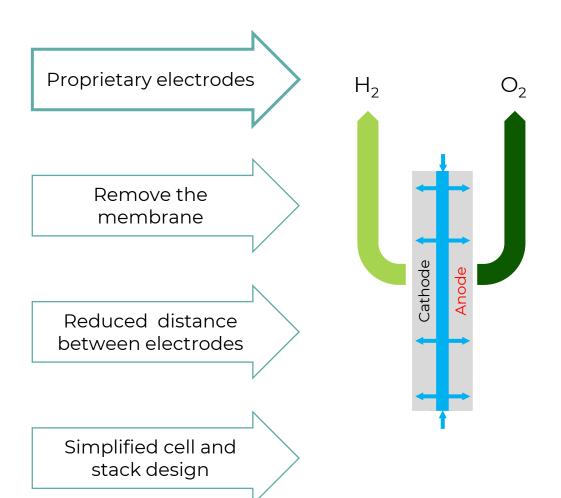
Limits operational flexibility

Membrane in an alkaline electrolyser



## The next step in electrolysis





Benefits of removing the membrane

Increased efficiency

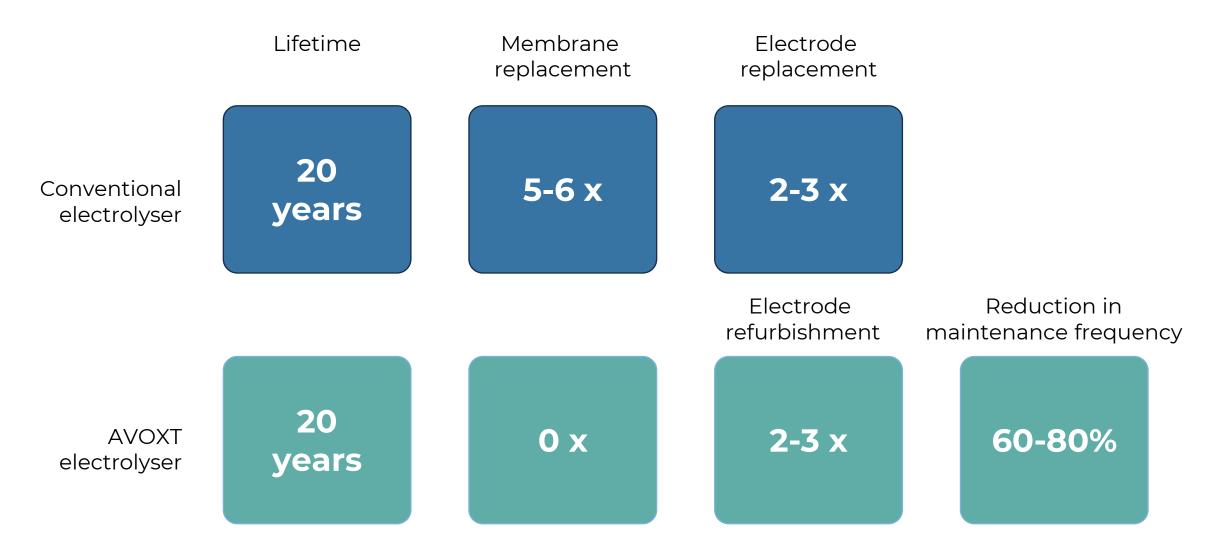
Decreased maintenance frequency and costs

Higher operating flexibility

Direct compressed gas

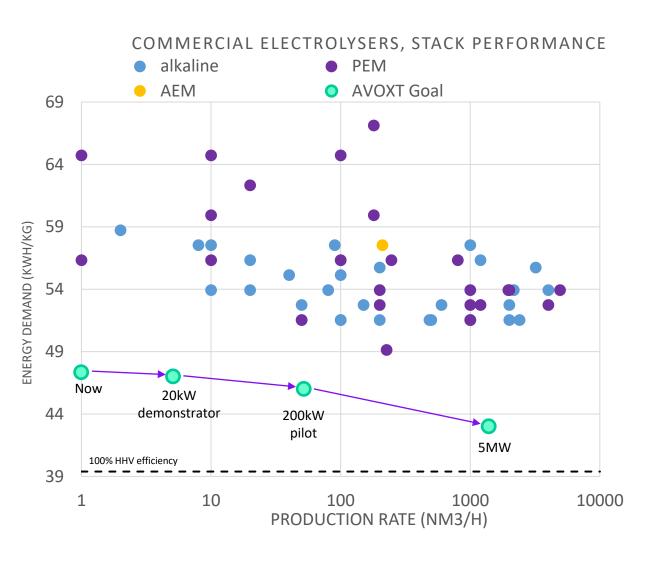


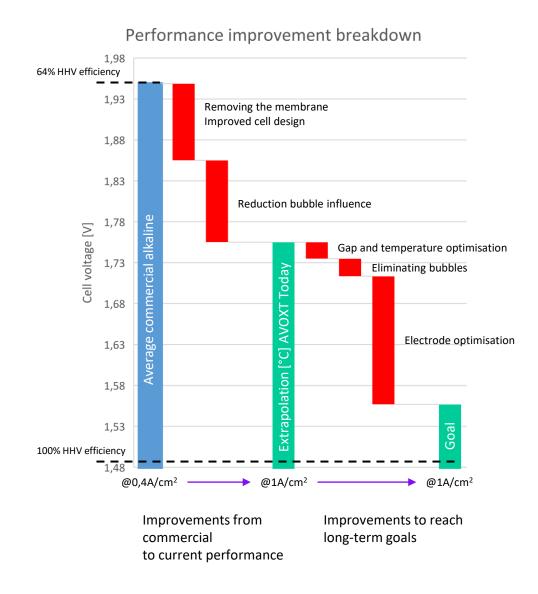
## Impact of removing the membrane





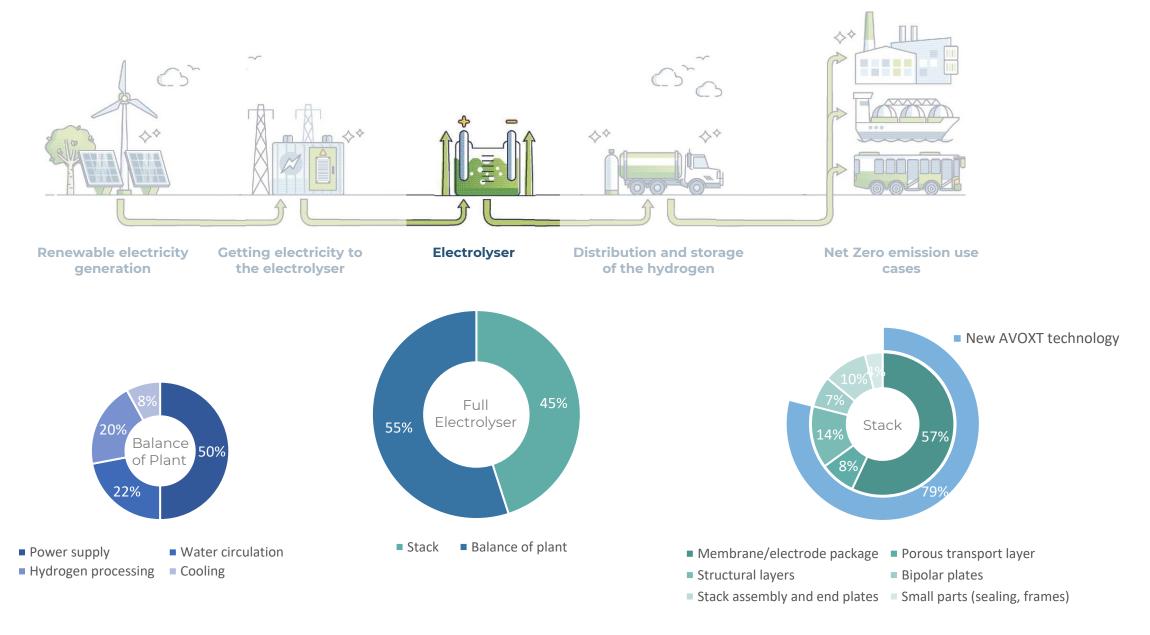
### How do we compare to commercial electrolysers?





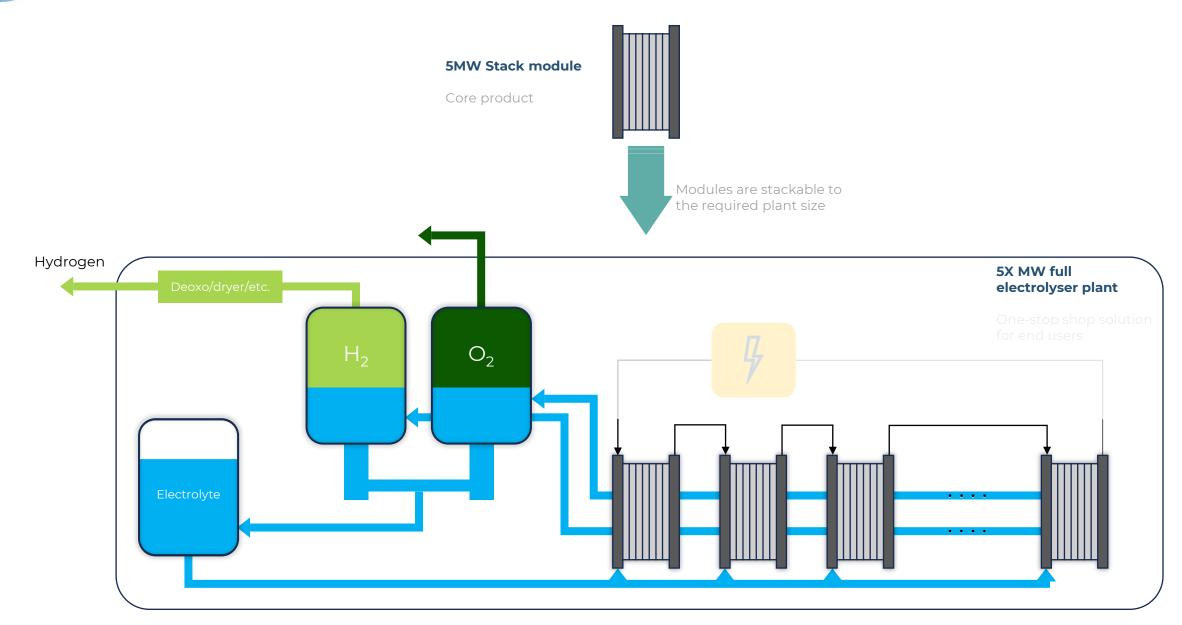


# AVOXT's contribution to a green future





# AVOXT's product offering





## Our plan to success

Initial revenue expected



H2-23	H1-24	H2-24	H2-25	H2-26
Proof of Principle	First stack operational	20kW demo	200kW pilot	5MW plant
<ul><li>Technology proven</li><li>Dry gas production achieved</li></ul>	<ul> <li>First multi-cell electrolyser operational</li> </ul>	<ul> <li>Integrated in a complete plant</li> </ul>	<ul> <li>In field testing connected to a windmill</li> </ul>	Commercial launch





### Market interest



Potential customer, Project partner 200kW pilot





Potential customer, under discussion



Development partner, Interested to invest



Potential customer, Lol signed



Hydrogen Network Northern Netherlands, Warm contact



## The team that will make it happen

Founders



**Ton Rademaker** Founder & CEO Entrepreneur Industrial Design Engineer





Employees



Tim Josten Mechanical Engineer

TU/e ASML



Pascal van Bakel Founder & CTO Energy systems expert Mechanical engineer





**Abhay Patel** Mechanical engineer





**Dr. Loes Wijnoltz Material Scientist** 







Dainora Šimkūnaitė Mechanical engineer



Advisory board





FME POWERED BY DUTCH TECHNOLOGY

**Prof. John Bell** Advisor CEO HighTech XL Tilburg University



**T**UDelft

**Prof. Earl Goetheer** Advisor CTO HighTechXL Prof. TUDelft

TU/e Technische Universiteit Eindhoven University of Technology



Philippa Biritwum Advisor CEO Amacon xecutive Automobile









## Huge market potential

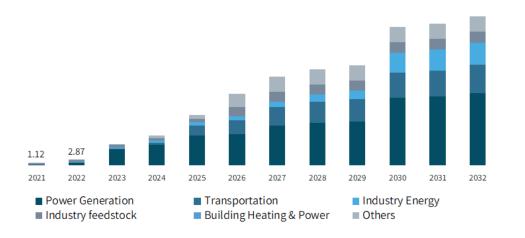
### **ELECTROLYZER MARKET**



TAM \$78 BN Electrolyser market

SAM \$5 BN Predicted alkaline stack market

Electrolyzer Market Size, By Application, 2021-2032 (USD Billion)



SOM \$419 M

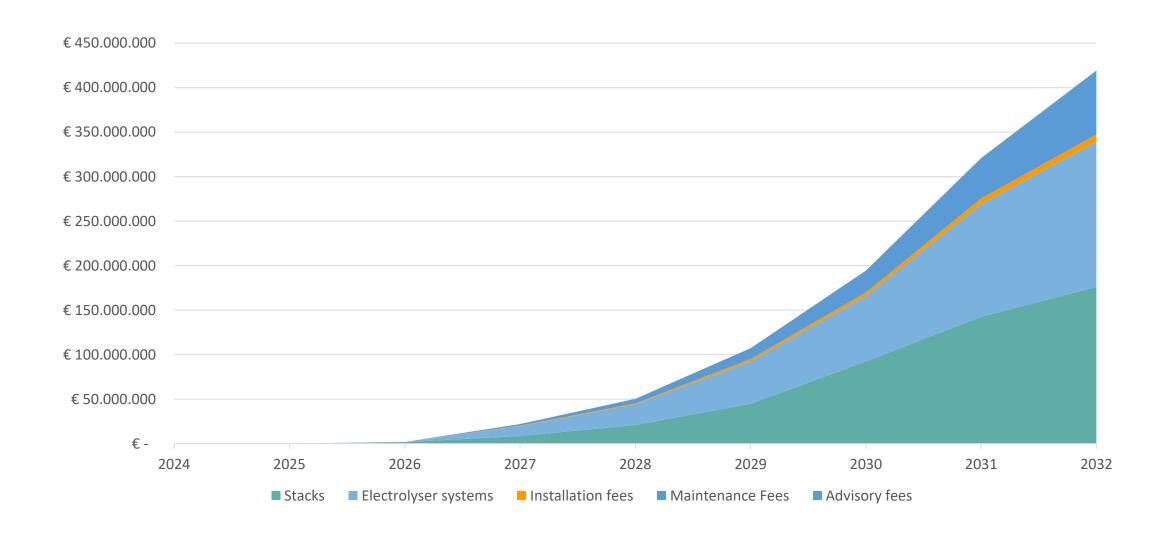
25 systems of 5MW → 3.2% market share in full systems 90 Stacks of 5 MW

→ 14% marketshare in alkaline stacks market share

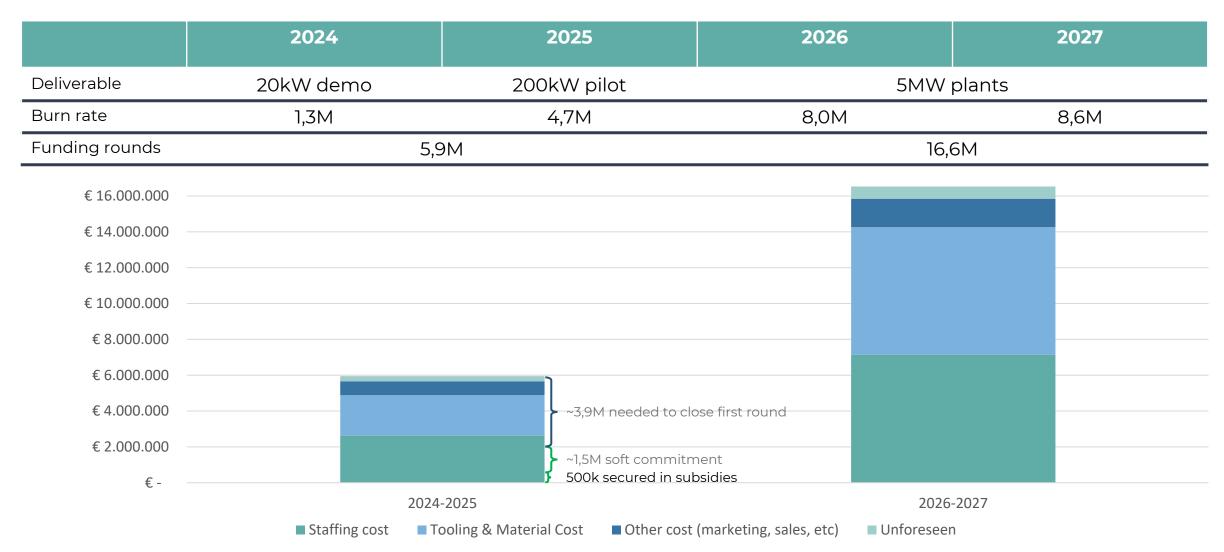
Source: GM insights



## Projected revenues







<sup>\*</sup>Currently the venture is funded with grants (~900k), HTXL and in-kind hours from the founders.

About half of the subsidies will be paid out on the basis of declaration in the near future to be used for R&D.

