



MARKET SEGMENTS

**Energy storage**



BOOTH NO.

**C07 Mebius · Slovenia**

**Product:** Membrane-electrode assembly (MEA)

## Doubling the power density of hydrogen fuel cells

**THE NEED.** The challenge is the low power density and significant production cost of current hydrogen fuel cell systems, which also affects the competitiveness of fuel cell technologies in various market segments.

**THE SOLUTION.** The solution involves a new, highly-active copper / platinum-alloy catalyst, improved polymers, developed in co-operation with the National Institute of Chemistry in Ljubljana, and a new production method of this type of product that enables much higher production accuracy and efficiency. The result of all of the above is a membrane-electrode assembly (MEA) with double the power density of current state-of-the-art products on the market.

### KEY FEATURES.

- Double power density.
- Greener manufacturing method.
- Less platinum used.
- Lower production costs for clients.

### VALUE PROPOSITION.

- 75% reduction in platinum used in production.
- Double the power of existing products and systems.
- Up to 40% production cost reduction through reducing the amount of components required to achieve the desired power output.

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### THE TEAM

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### STRATEGIC PARTNERSHIPS/ CUSTOMER REFERENCES

References available on request