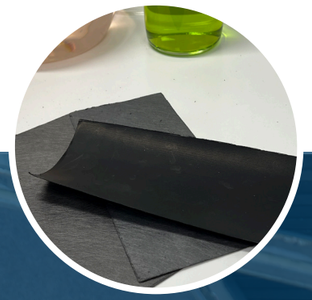
CUSTOMISED SERVICES

Focus on your special needs

>> Dismantling of complete fuel cell stacks, electrolysers, PAFC fuel cell systems
>> Separation of the individual components
>> Recycling of the individual fractions
>> Recovery of PGM and other critical raw materials
>> Precious metal analysis
>> Attractive precious metal remuneration models
>> Transport organisation and implementation

We will work with you to develop your customised model. We will be happy to advise you!



Hensel Recycling & Mastermelt
A Sustainable Alliance: Enhancing Fuel Cell Recycling Together

Hensel Recycling and Mastermelt Ltd. are partnering to boost sustainability in fuel cell and electrolyser recycling across Europe. This collaboration combines Hensel Recycling's expertise in processing end-of-life fuel cells with Mastermelt's refining skills, creating a strong alliance for recovering PGMs and other critical raw materials. By leveraging our strengths, we aim to enhance the efficiency of recycling processes and support the circular economy, providing sustainable solutions for the expanding hydrogen sector.

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Explanatory video
Recycling solutions for H2 - technologies

CRITICAL RAW MATERIALS RECOVERY
FROM FUEL CELLS AND ELECTROLYSERS

your first choice

PASSIONATE ABOUT PRECIOUS METALS RECYCLING

Hensel Recycling - Your first choice.

For more than 25 years, we have been one of the leading key-players in the field of precious metals recycling. Whether it's catalytic convertors, electronic waste or other materials containing precious metals, you've come to the right place. More than 200 employees spend their day ensuring economic recovery of valuable resources. Our day-to-day work is characterised by long-term partnerships, personal support and the highest precision when processing your materials.

The recovery of raw materials from secondary sources is becoming increasingly important as industries seek reliable access to critical raw materials. By recovering precious metals from end-of-life products and production residues, these resources can be reintroduced into industrial applications.

Through technical expertise, professional processing and transparent procedures, we help secure the availability of critical raw materials for future technologies and industrial production.

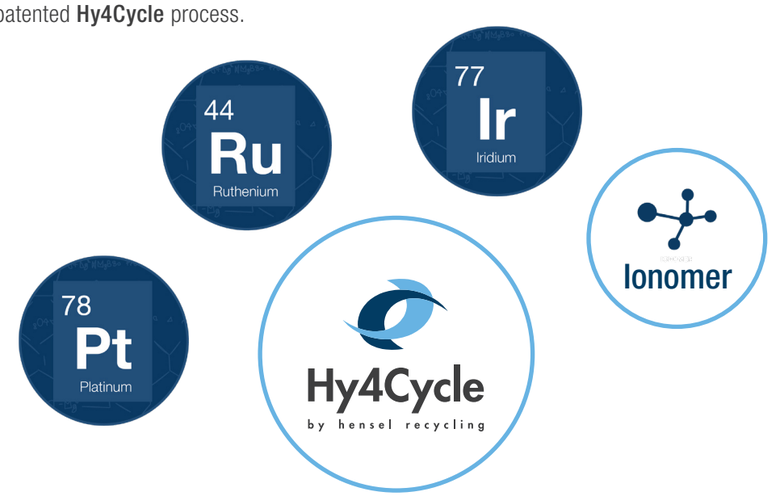
FUTURE-ORIENTED SOLUTIONS

Sustainable recovery of valuable raw materials

The future belongs to hydrogen technology. Reason enough to face up to the associated challenges now. That is why we are already working on the materials of tomorrow.

Fuel cells have become increasingly important as energy converters in stationary and mobile applications in recent years. However, other technologies such as electrolysers will also play an important role in the production of hydrogen in the near future.

The components tare coated with precious metals such as platinum, iridium, or ruthenium. In addition to PGMs, however, they also contain other critical raw materials as well as ionomer. For sustainable recovery, we rely on our closed loop: our patented **Hy4Cycle** process.



DIVERSE MATERIALS, PRECISE ANALYSIS

Recovery from the entire life cycle of fuel cells and electrolysers

Our core expertise lies in the precise sampling and analysis of individual components and materials. The aim is to prepare the individual components in such a way that a homogeneous sample is created that can be further prepared and analysed. Using established analytical methods, we obtain an exact profile of the material and can thus determine the exact PGM content.