

Your Decarbonization Journey Begins Here

# Filtration Solutions for High-Purity Gas Production and Handling



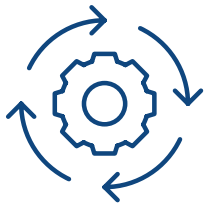
# ENGINEERING TOMORROW'S SOLUTIONS TODAY

**Increased global investments in the hydrogen production, biomethane processing, and carbon capture markets are rapidly transforming these once-niche segments into mainstream energy options.**

This expansion requires industry regulators and stakeholders to continuously review safety, compliance, and performance standards to support production and handling.

The industry is not just clarifying old rules but actively developing and refining new ones to address unique large-scale technical challenges.

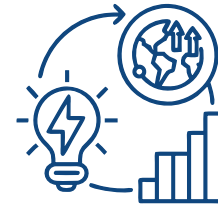
To keep pace with this evolution, Donaldson works closely with customers to develop tailored solutions for their operations that anticipate emerging needs. By partnering directly with engineering teams and plant operators, we can help design filtration systems that:



**Support production and handling**



**Enable you to scale your operations**



**Aid your energy transition with measurable results**





## TRUSTED LEADERSHIP AND EXPERIENCE

For more than 100 years, Donaldson has been on the leading edge of filtration innovation and development.

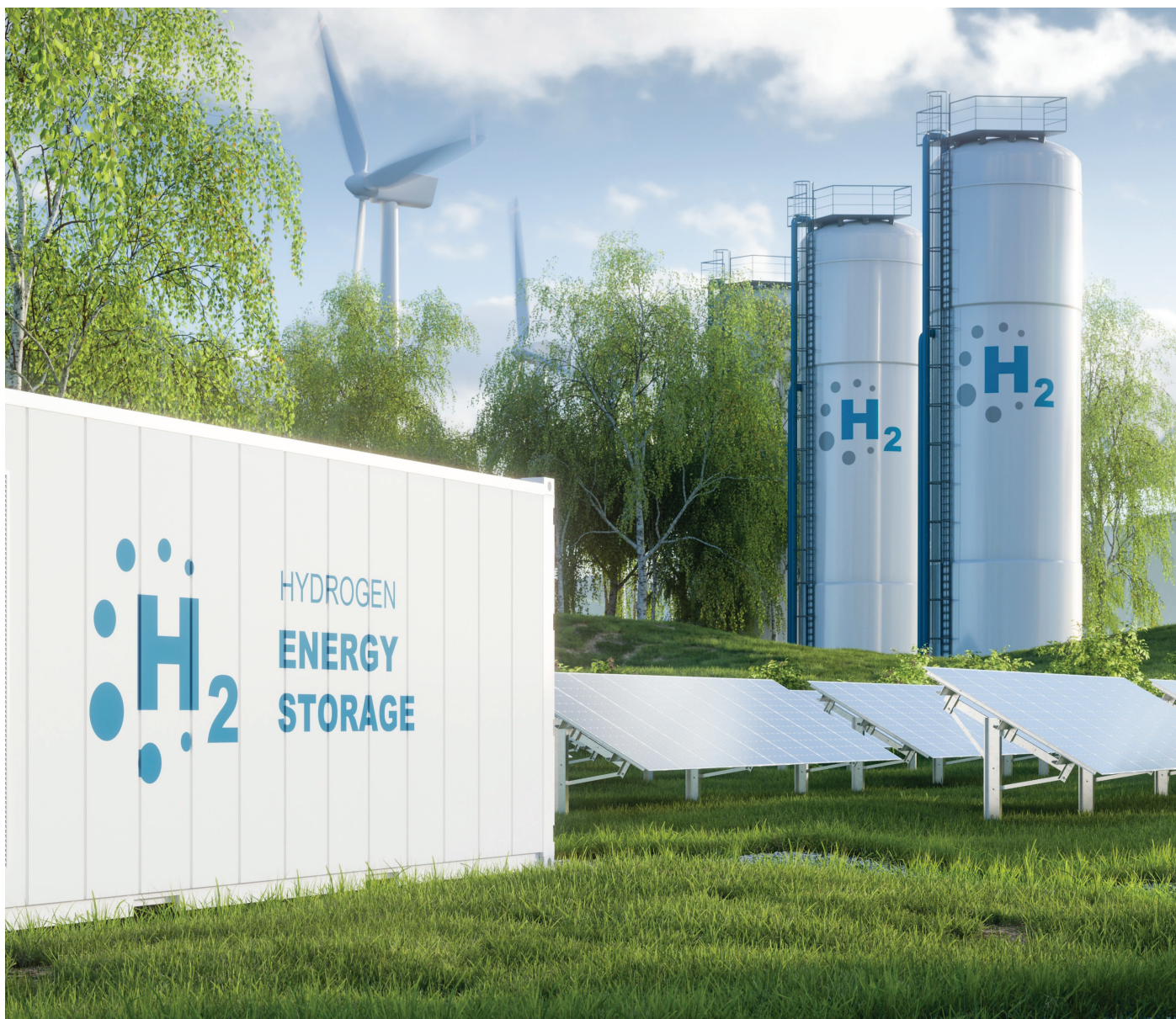
Over the last three decades, specialization has increased in industrial gases and in meeting the challenges of organizations operating in environments such as hydrogen, biomethane, and carbon capture.

Donaldson engineers and product specialists can help support your evolving clean energy and sustainability demands with dependable, field-tested purification solutions designed to work with the broadest range of gases and processes.

# PROVEN PERFORMANCE IN CHALLENGING ENVIRONMENTS

Proper filtration in hydrogen and renewable gas production systems is critical for operational safety and resilience. The unique characteristics of hydrogen and renewable gases, including broad flammability ranges and wide ignition energy requirements, can make meeting purification demands with safety standards challenging – especially in highly regulated or ATEX-classified environments.

Donaldson's filtration solutions are designed to help operators tackle their filtration challenges in sensitive industrial settings.



# ENABLING EFFICIENCY AND PRODUCTIVITY

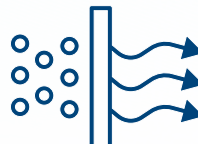
Our filtration and purification systems support operational efficiency by helping to:



**Reduce  
contaminants**



**Maintain  
uptime**



**Deliver high-purity  
gases**

For hydrogen manufacturers, this helps support stable equipment performance and the reliable delivery of high-purity gas required for essential downstream processes.

For biomethane producers, this efficiency supports dependable production levels and compliance to purity standards.

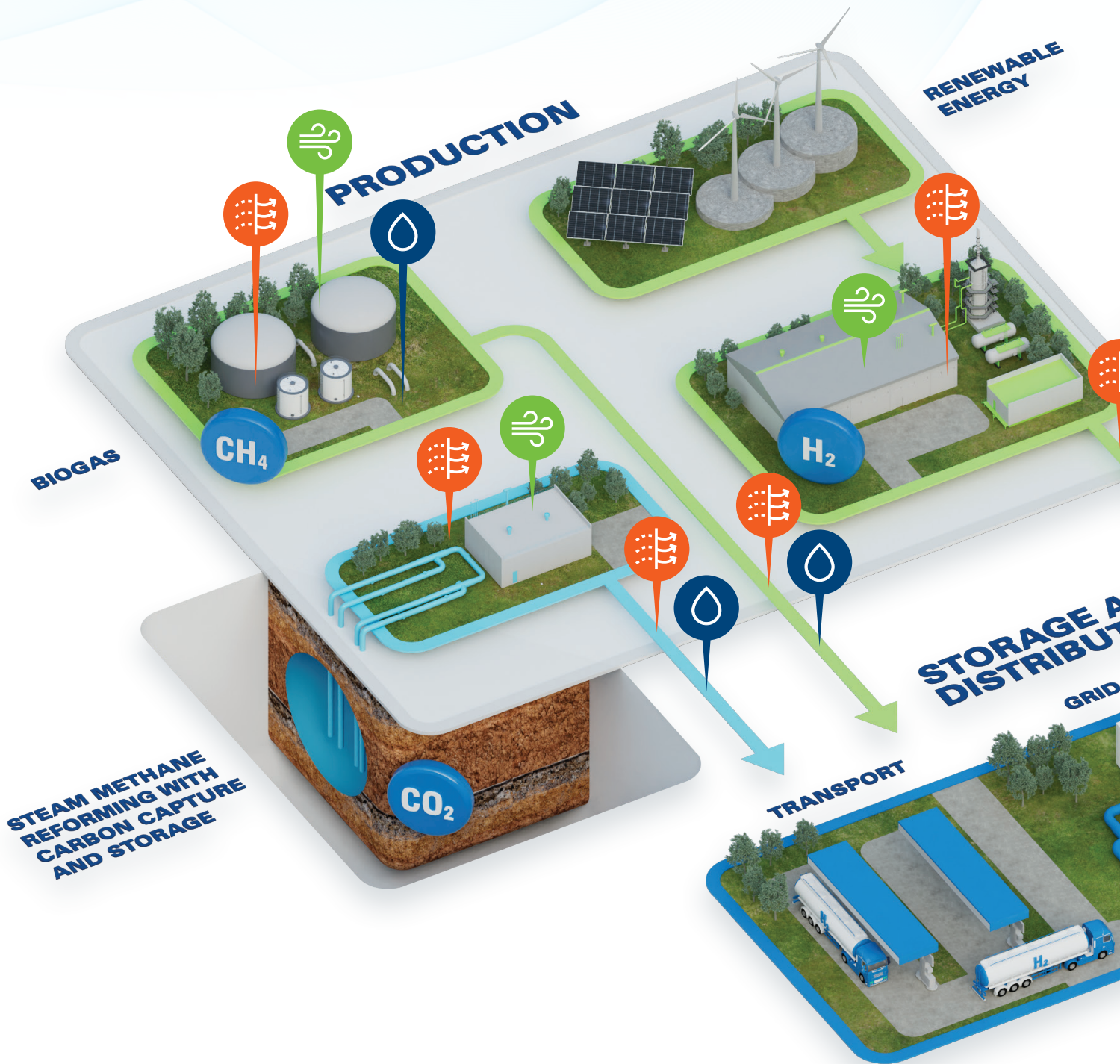
# COMMITTED TO SUSTAINABILITY AND RENEWABLES

Donaldson's solutions support the circular economy by helping energy producers to treat waste streams (biogas) into valuable energy and byproducts.

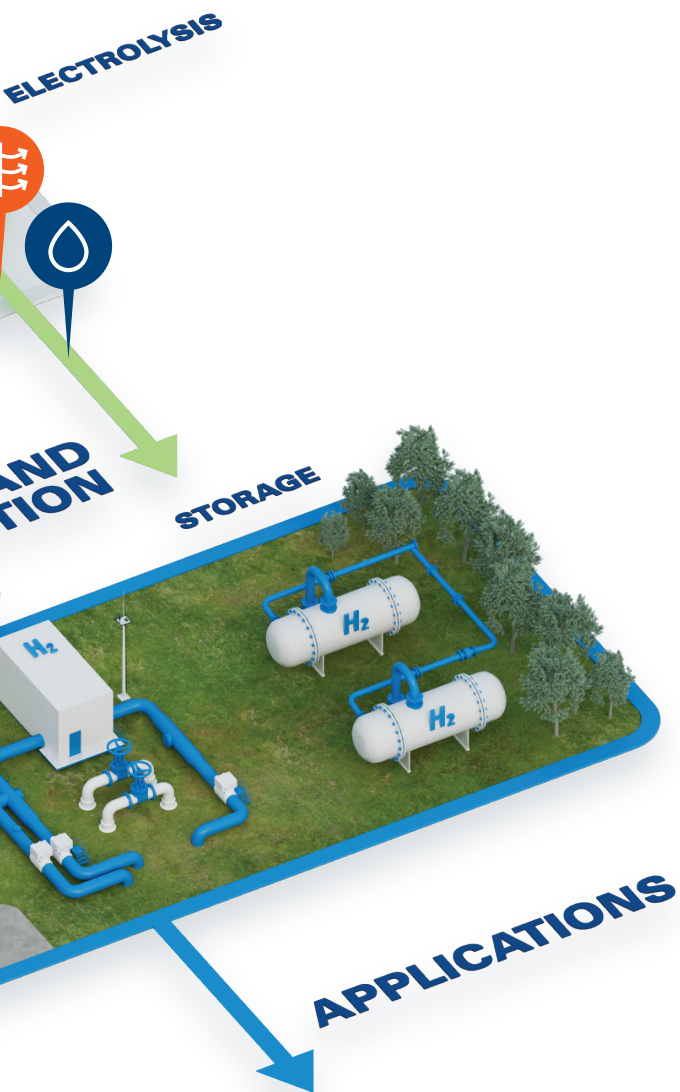
Effective filtration and purification in hydrogen and biogas production and handling enable organizations to actively advance their low-carbon transition.



# HIGH-PURITY GAS PRODUCTION & HANDLING



As the global demand for green energy accelerates, Donaldson has the industrial expertise and advanced technology to design purification systems that support our customers' efforts to meet their purity and efficiency standards for sustainable gas production.



### Filtration



### Drying



### Oil Removal



# GLOBAL REACH WITH LOCAL SUPPORT

With more than **14,000 employees across six continents** – and filtration specialists who understand regional regulatory standards and energy market needs – Donaldson provides customers global expertise and local responsiveness for greater peace of mind.



**For more information about filtration solutions for high-purity gas production and handling applications, please visit [Donaldson.com](https://www.donaldson.com) or reach out to a Donaldson representative.**



**donaldson.com**

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