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## FEDEREC and GRTgaz partner up to develop technology for converting solid recovered fuel (SRF) into renewable and low-carbon gas

**FEDEREC, the French federation of recycling companies, and GRTgaz, France's primary gas transmission system operator, have signed a partnership agreement to develop pyrogasification<sup>1</sup> technology for the production of renewable and low-carbon gas from solid recovered fuel (SRF) at local level.**

**FEDEREC and GRTgaz are pursuing the same objective to industrialise innovative, circular solutions for the recovery of renewable gas from non-recyclable waste. This partnership aims to confirm the value of pyrogasification technology as a sustainable solution for the recovery of SRF.**

SRF is composed of fractions of non-hazardous solid waste that is typically not recycled, i.e. converted to obtain new raw materials. In the waste management hierarchy, SRF represents the last step at which waste is recovered before it is permanently disposed of by incineration or landfilling.

Industrial solutions for processing SRF are currently limited. FEDEREC reports that in 2023, companies in the sector only produced 510,000 tonnes of SRF, or just 20% of French installed capacity, due to a lack of available solutions. Energy recovery from SRF by traditional sectors of heat production or cogeneration does not offer a sustainable model for operators in the sector.

Consequently, some SRF producers are looking to other processes, such as pyrogasification. Investigations carried out under the partnership between FEDEREC and GRTgaz aim to offer concrete evidence, backed by technical and economic findings, to confirm the value of converting SRF into gas that can be used by consumers and injected into networks without the need for updating facilities. The use of SRF as a feedstock in gas production facilities is a promising innovation, one recognised as a viable solution by France's 2021 Climate and Resilience Law.

In 2022, GRTgaz led a call for expressions of interest (CEI) relating to "pyrogasification for injection" under the aegis of the Strategic Committee for the "New Energy Systems Sector". From this CEI, 49 pyrogasification projects were identified, including several projects for converting France's SRF reserves. This CEI and forward-looking decarbonisation studies on the French gas mix by 2050<sup>2</sup> have confirmed the value in developing this new sector for the production of renewable and low-carbon gas.

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<sup>1</sup> Pyrogasification is a process that converts solid residues currently not recovered (wood waste, non-recycled plastics, solid recovered fuel, etc.) into gas by heating this waste to high temperatures (800–1,500°C) in a low-oxygen environment.

<sup>2</sup> In its "Transition(s) 2050" report published in 2021 and updated in 2024, ADEME, the French agency for the ecological transition, calculated different scenarios and estimated that the pyrogasification of SRF could contribute up to 30% of the gas mix by 2050.

With this agreement, FEDEREC and GRTgaz are officially announcing their mutual intention to facilitate the sharing of expertise, which will allow them to promote the deployment of a sector that supports the environment, the circular economy and the sovereignty of France and its territories.



Left to right: Manuel Burnand, CEO of FEDEREC, Clotilde Villermaux, Pyrogasification Project Manager at GRTgaz, Jean-François Carenco, Deputy President at FEDEREC, Anthony Mazzenga, Chief Business Development Officer at GRTgaz, Léonard Neuville, Recycling and Decarbonisation Project Manager at FEDEREC, Jean-Marc Le Gall, Head of Gas Business Development at Gaz de GRTgaz

### About GRTgaz

GRTgaz is France's primary gas transmission system operator and the second biggest in Europe. The Group has two subsidiaries: Elengy – the European leader in LNG terminals, and GRTgaz Deutschland, which operates the MEGAL network. In line with its [mission statement](#) – “Together, we enable an energy future that is safe, affordable and climate neutral” – GRTgaz has a public service mission, ensuring the safety of gas transmission for its 865 clients (biomethane producers, shippers, industrial companies, electricity power plants and distributors). GRTgaz is committed to achieving net zero and is adapting its network to new ecological and digital challenges; it supports the development of low-carbon hydrogen and renewable gas sectors (biomethane and gas from solid and liquid waste). It also transports waste CO<sub>2</sub> for the purposes of decarbonising the industrial sector. Key figures: 32,600 km of pipes, 625 TWh of gas transported, 3300 employees, €2.1 billion in turnover generated in 2023 (€2.6 billion at Group level). Find out more at: <https://www.grtgaz.com/>, [X](#), [LinkedIn](#), [Instagram](#).

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### About FEDEREC:

Established in 1945, FEDEREC represents the 1,250 companies in the recycling sector in France (from SMEs to mid-cap enterprises and multinationals) across mainland France and its overseas territories whose primary activity is the collection, sorting and recycling of industrial and household waste, as well as the trading/brokerage of raw materials produced from recycled waste. The federation is especially active to promote waste recovery, in line with the waste management hierarchy set out in section 2, paragraph II of article L.541-1 of the French Environmental Code that sets the priority in which waste is treated, namely in the following order: reuse, recycling (or material recovery) and the preparation of energy products like SRF before the final step which is permanent disposal. FEDEREC is composed of eight regional unions covering the whole of France and its territories, and 12 subsidiaries. The subsidiary VALORDEC deals specifically with matters related to energy recovery from waste. To this end, it covers the activities of preparing and processing SRF and biowaste. Find our latest news on <https://federec.com/>, [LinkedIn](#), [Instagram](#) and [Twitter](#)

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