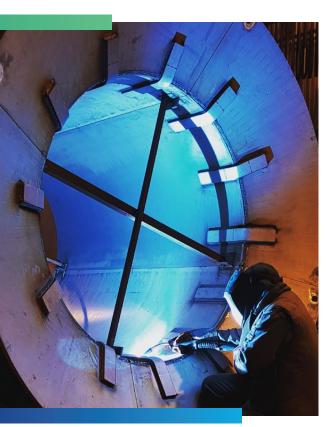
HAFFNER ENERGY

A PARTNER IN THE REINDUSTRIALIZATION OF TERRITORIES,
PRESENTS ITS PROJECT FOR A FIRST PLANT AND ITS TEST
AND TRAINING CENTER IN THE HEART OF THE GRAND EST
REGION IN FRANCE











HAFFNER ENERGY, A PLAYER IN DECARBONIZATION AND GREEN REINDUSTRIALIZATION

After taking the first step towards industrialization with the acquisition of Jacquier in June 2023, Haffner Energy is pleased to announce that it has completed the first stage of financing for its founding project to build its first large-capacity in Saint-Dizier (Haute-Marne), where its renewable gas and hydrogen production modules will be manufactured and assembled, thanks to the support of the French State through the France 2030 program operated by Bpifrance and its local institutional partners, including the Grand Est region and the GIP Haute-Marne. At the same time, Haffner Energy has embarked on another short-term structuring project with the establishment of a test and training center for research and development purposes in Marolles, in the immediate vicinity of its head office in Vitry-le-François and at the heart of the «Pays Vitryat» industrial region (Marne).

At a time when the French government has just selected 183 new regions as part of its «Territoires d'industrie» program aimed at reindustrializing France, **HAFFNER ENERGY** is more than ever committed to making a lasting contribution to the goal of industrial recovery and regional development through these two strategic projects.

A player in the energy transition for over 30 years, with strong roots in the Grand Est region, **HAFFNER ENERGY** designs and supplies pioneering decarbonization solutions for players in mobility, industry and local authorities.

A specialist in biomass energy recovery, with over 30 cogeneration projects (600 MW) completed in France and Europe, Haffner Energy has developed unique expertise in the design, engineering and construction of innovative equipment for the production of renewable energies using a novel biomass thermolysis process. This proprietary technology, protected by 15 patent families, uses indirect heat (in the absence of oxygen, unlike pyrolysis) to thermally decompose any type of sustainable biomass and organic waste, extracting the gas and hydrogen it contains. This industrial process is constantly being perfected, and is already available in three versions: SYNOCA®, a solution for the production of renewable synthesis gas; HYNOCA®, a solution dedicated to the production of renewable hydrogen; and SAFNOCA®, which enables the production of sustainable aviation fuels.





Haffner Energy resolutely committed to the sustainable reindustrialization of territories

Haffner Energy announces the 1st stage of financing for its first «FactorHy» plant project in Saint-Dizier, thanks to the support of the French State via the France 2030 program, operated by Bpifrance.

Confident in the prospects offered by the contribution of these solutions to the challenges of reindustrialization and decarbonization of territories, **HAFFNER ENERGY** took its first step towards industrialization in June 2023 with the acquisition of its partner **JACQUIER**, a family business specializing in industrial boilermaking and general mechanics located in Frignicourt in the Marne region, a few kilometers from its Vitry-le-François headquarters. This acquisition extends and strengthens a partnership entered into with **JACQUIER** since 2017 to manufacture and assemble strategic equipment for the hydrogen and renewable gas production modules developed by Haffner Energy.









The integration of **JACQUIER** has given **HAFFNER ENERGY** its first high-performance industrial tool to meet the accelerating demand for decarbonization solutions in France and abroad. It also brings additional technical expertise in process validation through additional tests on the technology, reinforced control of the quality and cost of modules delivered to customers, and better control of its intellectual property. Thanks to these new production and assembly resources, **HAFFNER ENERGY** has been able to take a major step forward in its industrial deployment, and has reinforced its strategic ambitions and its desire to play a concrete part in efforts to reindustrialize the regions in which it operates.



HAFFNER ENERGY's strong ambition to bring its decarbonization technology and solutions to industrial scale is also reflected in a larger-scale project with the deployment of its first high-capacity assembly plant, as the Company announced at the time of its IPO in February 2022. This gigafactory project will mark a new strategic milestone for the company.

Philippe Haffner, Chairman and CEO of Haffner Energy, explains the ambitions of this project, which will shape the company's future:

« The technology deployed by Haffner Energy will play a decisive role in decarbonizing and accelerating the energy transition worldwide. Haffner Energy will be in a position to address an ever-expanding market, provided it has an agile, high-performance industrial base. Our gigafactory and test and training center will enable us to respond quickly and appropriately to customer demand, while guaranteeing product quality and preserving the confidentiality of Haffner Energy's unique intellectual property. We are delighted to be launching these highly structuring investments in the region where Haffner Energy's head office is located. I would like to thank all our partners and elected representatives, who unanimously support this industrial project and have been working with us for months to ensure its successful deployment ».

This project was submitted as part of the France 2030 «Première Usine» call for projects, operated by Bpifrance in autumn 2022. After a demanding selection process, **HAFFNER ENERGY** is particularly proud to announce that its «FactorHy» gigafactory project has been selected.





With this recognition, **HAFFNER ENERGY** will benefit from €5.9 million in grants and repayable advances to finance its project.

« As the leader of the FactorHy project for almost a year, I am particularly proud to unveil this new stage in the history and development of Haffner Energy. I would like to thank the French State, local authorities and elected representatives, as well as our public and private partners, with whom we are working hand in hand to ensure the success of this strategic project for the company. After the acquisition of Jacquier in June 2023, Haffner Energy is once again proving that it is resolutely committed to the green reindustrialization of the regions ».



LAURE BOURDON
Philippe Haffner's
Chief of Staff





« I'm very pleased to witness the successes of Haffner Energy, with the support of France 2030, which has been present at every stage of the company's development. After being supported in 2018 by a France 2030 grant (PIA) operated by Ademe, to develop an initial demonstrator, the company moved on to a full-scale demonstrator in Strasbourg, with the support of the Grand Est region. Finally, Haffner Energy has just received further support from France 2030 to build its first high-capacity assembly plant for its biogas and renewable hydrogen production modules in the Grand Est region.

The company's markets are promising, particularly internationally, where its technology is sure to play an important role. I'm already looking forward to its future commercial success, but also to its important contribution to decarbonizing our economy, as its alternative hydrogen production technology, subject to local biomass availability, can usefully complement electrolysis production and guarantee the deployment of hydrogen in our territory ».



BRUNO BONNELL
General Secretary for Investment in charge of France 2030

A year and a half after its IPO, **HAFFNER ENERGY** intends to continue its industrialization in the heart of the Grand Est region, and to participate in the reindustrialization and ecological and energy transition of the region by setting up in the heart of the «Sud Meuse Nord Haute-Marne» industrial region, in the Saint-Dizier business park, in the immediate vicinity of the CIGEO project.



This project has the unanimous support of the region's elected representatives:



QUENTIN BRIÈRE

Mayor of Saint-Dizier and Chairman
of Grand Saint-Dizier

« The decision to locate an assembly plant in Greater Saint-Dizier illustrates the attractiveness of our region, in keeping with its industrial identity. Over the past few years, Saint-Dizier has seen a definite dynamism, with companies choosing our area to set up or expand. This project confirms our region's historic know-how. I would like to thank Haffner Energy for the prospects offered by this excellent project, both from an economic point of view and in terms of local employment. I'm delighted to see this cutting-edge business set up in our town, which is also home to the CIGEO project, a large-scale experiment in the challenges of ecological and energy transition ».

« Industrial innovation and energy issues are at the heart of the challenges facing our industry and mobility. I wanted the GIP Haute-Marne, a key player in the economic support of CIGEO, to work alongside Haffner Energy to develop this industrial project in Saint-Dizier. The industrial skills of our economic fabric will be strengthened by the establishment of Haffner Energy, which is carrying out an innovative project to help reindustrialize our region ».



NICOLAS LACROIX
resident of GIP Haute-Marne
and President of the Haute-Marne
Departmental Council

After this first step with the support of Bpifrance, Haffner Energy is moving ahead with the realization of its project, by completing its financing thanks to its public and private partners, and by working on an Industrial Master Plan. Details of the plant, which is scheduled to start up in mid-2024 and be completed in 2026, will be announced once these additional stages have been completed.



A future test and training center in Marolles

HAFFNER ENERGY will also set up a test and training center in the immediate vicinity of its head office in Vitry-le-François, in the heart of the «Pays Vitryat» industrial region.

This project will be carried out in two stages:

- from early 2024, the installation of a new-generation demonstrator for testing all types of biomass used by our customers notably, with a view to industrial and business development and continuous improvement of our technology;
- in the medium term, a test and training center for **HAFFNER ENERGY**'s customers and employees. .

At its meeting on September 26, the Communauté de Communes de Vitry, Champagne et Der authorized **HAFFNER ENERGY** to launch preliminary studies and carry out archaeological excavations on the plot in question, located on the Vitry Marolles industrial estate.

This new tool will enable **HAFFNER ENERGY** to benefit from dedicated resources to carry out tests and trials for its customers and prospects on a new-generation demonstrator producing, firstly, renewable gas from biomass residues, and secondly, renewable hydrogen.





« Our technology, with its patented innovations and 30 years of experience, provides a unique, competitive and operational response to accelerate decarbonization. To facilitate its appropriation by local players and its rapid industrial deployment, we need to offer our teams and partners a testing and training center right in the heart of the region. This will soon be the case, and we are delighted at this prospect, which will help us to accelerate the deployment of our various solutions to meet the growing needs of the market ».



MARC HAFFNER Co-Founder, Deputy CEO & CTO

This project, which will see the light of day in early 2024, also enjoys the unanimous support of the region's elected representatives and institutional partners.

It is fully in line with the priorities of the Territoire d'industrie du «Pays Vitryat», which include: the development of the Territorial Jobs and Skills Forecast Management approach and the implementation of the associated training offer, the deepening of the territory's territorial industrial ecology approach, the support of innovative sectors with the development of the bioeconomy, and the support and accompaniment of industrial projects in favor of decarbonization.



JEAN-PIERRE BOUQUET

President of the Communauté de
Communes de Vitry,

Champagne et Der, where Marolles
is located, and Didier Noblet,
Mayor of Marolles

« The Communauté de Communes Vitry, Champagne, et Der has been accompanying and supporting Haffner Energy, an industrial innovation nugget incubated at the Fabrique in Vitry-le-François, for many years. It has integrated innovation, energy transition and decarbonization of processes into all its strategies. The Vitry area has a deep-rooted industrial culture, anchored around the Vitry Marolles zone. As a logical consequence, the Commune of Marolles and the Communauté de Communes de Vitry, Champagne et Der are committed and mobilized to support Haffner Energy's dynamic development, in complementarity with our catchment area ».



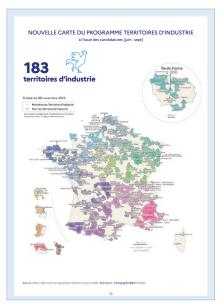


Haffner Energy, partner of «Territoires d'industrie» in the Grand Est region of France

On November 9, at the Territoires d'industrie General Assembly held in Chalon-sur-Saône, the new 2023-2027 mapping of the Territoires d'industrie was unveiled. Nearly 183 winning territories are now committed until 2027 to a sustainable industrial reconquest around four new axes: accelerating the ecological and energy transition of the Territoires d'industrie, turning territories into ambitious innovation ecosystems, removing recruitment obstacles, and developing skills in attractive industrial territories, and finally mobilizing industrial land adapted to the challenges and needs of both manufacturers and local authorities.

Launched by Prime Minister Edouard Philippe at the Conseil national de l'industrie in November 2018, and relaunched for the period 2023-2027 by French President Emmanuel Macron, the national Territoires d'industrie program is a strategy for industrial reconquest through territories (development of industrial skills, training, employee mobility, innovation ecosystems, attractiveness of territories and industrial professions, acceleration of the ecological transition, revitalization of industrial wastelands...).







https://www.economie.gouv.fr/le-gouvernement-selectionne-183-nouveaux-territoires-dindustrie#

« Territoires d'industrie is part of France's ambition to build a sovereign, low-carbon industry through local development. Local players, with their knowledge of the terrain, its specific features and its challenges, are in the best position to meet these challenges collectively. As part of the new phase of the program, the Territoires d'Industrie du Pays Vitryat and Sud Meuse Nord Haute Marne, in which Haffner Energy participates in the governance, have just been awarded a label. Their action plan, with the ecological transition at its heart, embodies these synergies between elected representatives and industrialists. »



JEAN-BAPTISTE GUEUSQUINDirector, Territoires d'industrie program



The Grand Est region, cradle of Haffner Energy's development: a territory with a strong industrial culture

Among the 183 "Territoires d'industrie" selected nationwide for this second phase 2023-2027, 21 are located in the Grand Est region.

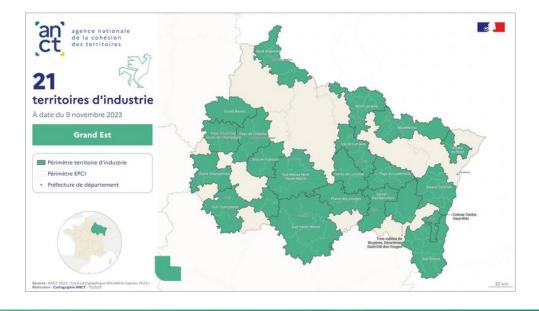
Among them are three industrial territories in which Haffner Energy is particularly committed and wishes to invest even more: «Pays Vitryat» around 3 EPCIs (Communauté de Communes de Vitry, Champagne et Der, Communauté de Communes de Côtes de Champagne et Val de Saulx and Communauté de Communes de Perthois-Bocage et Der), «Sud Meuse Nord Haute Marne» around 4 EPCIs (Grand Saint-Dizier Der et vallées, Communauté de communes des Portes de Meuse, Communauté de communes du Bassin de Joinville en Champagne, and Communauté d'Agglomération Meuse Grand Sud), and «Pays Chalonnais» around 3 EPCIs (Châlons en Champagne Agglo, Communauté de Communes Région de Suippes, and Communauté de Communes de la Moivre à la Coole).

Haffner Energy, an economic player committed to the green reindustrialization of territories, had actively supported to the candidacy of these three territories, and wished to invest itself more particularly by becoming the elected-industrial binomial of the «Pays Vitryat» and «Sud Meuse Nord Haute-Marne» industrial territories, in view of its development projects.

« Haffner Energy's industrial project in the Grand Est is fully in line with our ambition to make the region a competitive and innovative industrial territory. It is also the fruit of the mobilization of the French government, the towns of Saint-Dizier, Vitry-le-François and Châlons Agglo, and the GIP Haute-Marne within the framework of France 2030. The recent announcement of the new industrial territories reinforces our position as the French leader in reindustrialization. With over 90% of the region covered by forests and agricultural and wine-growing areas, biomass offers enormous potential for reducing our dependence on fossil fuels. We're very proud to be giving economic players the keys to writing their own local history: our aim is to make the Grand Est a genuine European laboratory for ecological transition ».



FRANCK LEROY
President of the Région
Grand Est





The «Territoire d'industrie» label: an opportunity for Haffner Energy and local industrial players

Building on the success of the first phase of the program, the second phase aims to pursue and amplify the momentum of reindustrialization in territories via, in particular, a strengthened service offering announced as part of the law on green industry adopted on October 23.

In line with the objectives of speeding up the ecological transition and reindustrializing regions, starting in 2024, €100 million a year will be deployed to approved Territoires d'industrie, as part of the Green Fund, to support structuring industrial investment projects with positive impacts, particularly in terms of the ecological and energy transition, in the image of Haffner Energy's projects.

In addition to this financial support, Territoires d'industrie will be able to benefit from a comprehensive engineering service to help them structure their projects.

Last but not least, a project manager, co-financed by the French government, will be appointed to support the elected representative-industrialist team, and to steer and lead the process at local level.

Haffner Energy's approach to reindustrialization: positive local initiatives come together to serve a global ambition: regenerating the planet

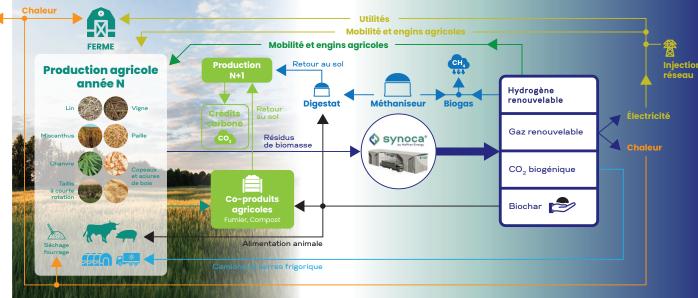
While Haffner Energy's technology is intended to be a long-term solution to the global challenge of decarbonization, it is of particular interest in the collaboration between local authorities and their stakeholders, whether biomass producers, talent pools or incubators of positive initiatives, all of whom feed into and support projects designed with Haffner Energy, around its technology.

The thermolysis process developed by Haffner Energy is highly adaptable, making it possible to valorize all types of biomass residues and thus generating new outlets, in short circuits, for local producers of this raw material, which until now has often been untapped (farmers, winegrowers, foresters, etc.), sourced locally and thus sustaining local employment that cannot be relocated. Yet another argument to justify the resources deployed by Haffner Energy to pursue its unchanged ambition: decarbonizing uses without cutting back on competitiveness.

Haffner Energy's technology not only generates renewable energies, but also has a positive impact at the start of the chain for biomass producers, in the middle of the chain for customers who will produce their own green energy thanks to Haffner Energy modules, and finally at the end of the chain for consumers, because Haffner Energy's technology makes green energy available on the market, produced locally from sustainable local resources.







Haffner Energy's thermolysis process also enables the co-production of biochar, the most advanced method of sequestering CO2 from the atmosphere.



In the biomass thermolysis process, biomass residues are transformed into biochar, a plant-based charcoal that, among other qualities, sequesters CO2 from the atmosphere, making the production process carbon-negative in a full life-cycle analysis. Biochar has an agronomic value as a soil improver and an economic value, notably via the carbon credits associated with it on the voluntary market (carbon removal certificates or CORCs). By acting as a «carbon sink», biochar makes the technology developed by Haffner Energy a truly carbon-negative one, and gives it the capacity to contribute to environmental regeneration.





Haffner Energy, partner of Chârl'Hy, an ambitious and unique project in the Champagne region, an ideal location for the decarbonization of energy consumption.

The Chârl'Hy project highlights the confidence that many local partners have in the technology developed by Haffner Energy.

Designated the winner of Châlons Agglo's «Financial support for the creation and development of industrial activities with low environmental impact» call for expressions of interest on November 10, 2023, this project aims to establish an industrial hub for hydrogen and renewable gas production by 2026/2027 in the Châlons area. Led by CVE, a French independent producer of renewable energies, in partnership with Haffner Energy, the project will be carried out in two phases.







The first component is a unit for the production and distribution of renewable hydrogen by electrolysis of water, which will contribute to decarbonizing the heavy mobility of local and visiting transporters and logisticians, as well as local industry. This part of the project is being carried out by CVE with the support of Banque des Territoires. The second component of the Charl'Hy project is a renewable heat production unit based on biomass thermolysis, using the SYNOCA® solution developed by Haffner Energy. The installation of a module designed by Haffner Energy will enable biomass residues, particularly from forestry, to be valorized. This component will meet local industrial and urban heating needs, following a study phase carried out by CVE and Haffner Energy, who will also receive tailor-made support from the local authority.



The Chârl'Hy project takes on its full meaning at Châlons Agglo, located on a major road hub and where local economic activity is booming. CVE, in partnership with Haffner Energy, will thus meet the AMI's objectives of contributing to the dynamism and ecological and energy transition of companies in the Châlons area, which is intended to be sustainable and exemplary.

The project has been designed to encourage local synergies. From a commercial point of view, it will enable us to offer a complete range of solutions to local manufacturers. From a territorial point of view, it will unite local authorities and the agricultural, industrial and urban worlds around the realization of the project, thus creating a real territorial and circular dynamic in the service of the quality of the living environment and the decarbonization of uses.

This project demonstrates that the creation of local synergies between well-established local economic players is not just wishful thinking, but can be effectively realized.



The NedE'Hy renewable hydrogen production and distribution station project, in partnership with Nedey

With the NedE'Hy project, Haffner Energy is once again demonstrating its progress in supporting local energy transition.

The HYNOCA® solution, based on Haffner Energy's unique biomass thermolysis technology, has been selected to equip NedE'Hy. This ambitious project for the production and distribution of renewable hydrogen made from forestry biomass residues is supported by a consortium of local players led by car dealer Nedey Automobiles and will be based in Brognard (Doubs).



The project was conceived and submitted to ADEME as part of the EcosysH2 territorial hydrogen ecosystems call for projects, by a consortium of mainly local players including Nedey, future distributor of the renewable hydrogen produced by the station, as well as Pays de Montbéliard Agglomération, a regional player committed to the region's energy transition, and a sawmill belonging to the Swiss Corbat group, a player in the timber industry and producer of locally sourced biomass. Alongside them, other local authorities and regional SMEs have expressed their wish to join the consortium.

Their approach highlights the possibility for players from a wide range of sectors to work together towards a common ambition: to create and supply renewable hydrogen to a new local ecosystem free from fossil fuels.

Haffner Energy's technology for local, circular, and sustainable solutions

Of the three versions of Haffner Energy's technology already mentioned (SYNOCA®, SAFNOCA® and HYNOCA®), HYNOCA® (dedicated to the production of renewable hydrogen) was chosen for the NedE'Hy project, both for its energy and ecological virtues (thanks to the co-production of biochar, this process has a neutral or negative carbon foot-print) and its ability to be part of a local dynamic.

The relevance of the HYNOCA® solution was recently recognized by the INOVANA prize, a regional competition for innovation in the non-food valorization of agro-resources, awarded by Agria Grand Est, ADEME, Région Grand Est in partnership with Groupama Grand Est and Crédit Agricole Lorraine.

With the NedE'Hy project, Haffner Energy has confirmed its ability and willingness to be a first-rate partner in the development of ambitious projects such as the one in Brognard. This project for the production and distribution of renewable hydrogen is intended to be replicable wherever biomass is available and exploitable, thus proving that a circular and virtuous economic model is possible, a model which gives Haffner Energy the opportunity to reaffirm its ambition: to enable the production of renewable energy that is accessible everywhere and to everyone.





Haffner Energy committed to green reindustrialization ecosystems

The Communauté du Coq Vert is a community of business leaders convinced of the need for action and already committed to the ecological and energy transition. Launched by Bpifrance, in partnership with ADEME (the French Environment and Energy Management Agency) and the French Ministry of Ecological Transition, the Community aims to encourage the sharing of expertise between committed entrepreneurs. To date, it brings together more than 1,800 entrepreneurs committed to the Climate.



Haffner Energy joined this community in February 2023 as part of its long-standing commitment to the ecological and energy transition.



Launched in October 2017 by Bruno Le Maire, Minister of the Economy, Finance and Industrial and Digital Sovereignty, the French Fab embodies the companies, economic players, institutions and industrial sites located in France that recognize themselves in the desire to develop French industry. Haffner Energy has been a member since March 2023.

Haffner Energy is one of 500 B4C members committed to the Bioeconomy. B4C is the reference network for the bioeconomy in France, Europe and internationally. Our team of 40 specialists works for over 500 members, from upstream agriculture to the marketing of finished products. We promote the bioeconomy, support our members' projects, and encourage meetings and collective dynamics. The ambition of the B4C network? To make France one of the world leaders in biomass valorization.





In 2023, Haffner joined the Terrasolis regional association, the innovation cluster dedicated to low-carbon agriculture in field crops. With its multi-disciplinary network of some fifty members and the support of its demonstrator site, Terrasolis helps players in the agricultural and regional sectors to achieve their objectives of carbon neutrality.

Haffner Energy is contributing to the Grand Est Région Verte initiative, whose aim is to help translate national ambitions for ecological planning into concrete local action. As such, Haffner Energy took part in the territorial COP organized in Metz on November 14 in the presence of the French Minister for Ecological Transition and Territorial Cohesion, Christophe Béchu.







ABOUT HAFFNER ENERGY

Haffner Energy, a listed family company co-founded and co-directed by Marc and Philippe Haffner, has been a key player in the energy transition for 30 years. It designs and supplies innovative decarbonization solutions for mobility, industry and local authorities. Its HYNOCA®, SYNOCA® and SAFNOCA® solutions, based on biomass thermolysis, a technology protected by 15 patent families, enable customers to produce locally renewable hydrogen and gas, as well as other green energies such as Sustainable Aviation Fuel, while capturing carbon from the atmosphere through the co-production of biochar.

More information at www.haffner-energy.com

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