

Origine, Technip Energies' new headquarters: a firm commitment to the energy transition



Origine, Technip Energies' new headquarters, is an environmental benchmark. Its demanding environmental approach and interior layout will provide a state of the art work environment for Technip Energies' employees as of September 2021. This initiative is perfectly in line with the company's new energy transition strategy.

Starting date of the project	January 2018: start of construction 19 March 2021: building completion
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	Located in Nanterre, opposite the Paris La Défense Arena, at the foot of the future Gare de Nanterre-La Folie train station and in the extension of the Arche gardens.
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	Reduce the construction and exploitation carbon footprint of sites occupied by Technip Energies.
Detailed project description	<p>Origine is a large 70,000 m² office building programme developed by Icade. Technip Energies will occupy almost 80% of this building complex, i.e. 51,000 m², to accommodate approximately 2,500 of its employees from various functions (finance, communication, project teams, HR, etc.).</p> <p>Designed by Maud Caubet Architectes and Quadri Fiore Architecture, Technip Energies' headquarters reflects a demanding environmental approach:</p> <ul style="list-style-type: none"> - Hybrid timber-concrete structure with 25,000 m² of wood flooring, - Creation of a low-carbon energy centre for the following needs: <ul style="list-style-type: none"> o Geothermal energy from water, o Supplementation by a district heating network (ENERTHERM – 50% renewable energy), o Roof equipped with solar panels, o Energy recovery from the condenser network and server rooms, - Green roofs (6,500 m² of gardens, patios, loggias, terraces, etc.). - Energy management and hygrothermal comfort is ensured through the use of ventilated double-skinned façades with integrated solar protection, depending on exposure - Optimized management of energy consumption through data collection that allows for precise measurement of all consumption and the impact of each contributor. <p>Icade has currently obtained the following certifications/labels:</p> <ul style="list-style-type: none"> - Wiredscore Platinum - R2S 3 stars <p>And is expecting feedback shortly on the following certifications/labels:</p> <ul style="list-style-type: none"> - HQE 2016 Excellent - BREEAM 2016 Excellent - LEED V4 Gold - WELL Core & Shell Silver - E+C- (E2C2) - BiodiverCity <p>ORIGINE participated in the Nature 2050 commitment by investing in the CasCioMar (Cassis-La Ciotat-Marseille) carbon offsetting project, a project chosen by Technip Energies, which aims at restoring marine environments on the Marseille coastline.</p> <p>Origine was designed and developed using building information modelling (BIM), which can be used for operation and maintenance.</p> <p>The lease in future state of completion (BEFA) that Technip Energies has entered into with Icade has enabled it to jointly build a project that is in line with its energy transition commitments. In keeping with the building labels and certifications currently being obtained by Icade, the company is now working on obtaining operator labels and certifications for Origine, one year after taking over the building and setting up its teams.</p>

Main project's drivers for reducing the greenhouse gas emissions	Reduction levers		Details on the aspects of the project	
	<input checked="" type="checkbox"/> Energy and resource efficiency (including behaviour)		Optimised energy, water and landscape management.	
	<input checked="" type="checkbox"/> Energy Decarbonisation		Geothermal energy on groundwater Photovoltaic panels on roofs Energy recovery on the condenser network and server rooms	
	<input type="checkbox"/> Energy efficiency improvements			
	<input type="checkbox"/> Improving efficiency in non-energy resources			
	<input checked="" type="checkbox"/> Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S, ...)		Wooden structure Carbon offset project "CasCioMar 2050"	
	<input type="checkbox"/> Financing low-carbon producers or disinvestment from carbon assets			
<input type="checkbox"/> Reduction of other greenhouse gases emission				
Emission scope(s) on which the project has a significant impact and quantification of GHG emission reductions per emission scope			Aspects of the project contributing to the reduction of emissions by emission category	Quantification of associated GHG emissions by emission category Please follow the quantification methodology used in the Afep guidelines
	Reduction of the company's carbon dependency			
	Scope 1 <i>Direct emissions generated by the company's activity.</i>			
	Scope 2 <i>Indirect emissions associated with the company's electricity and heat consumption.</i>		This project will significantly reduce our electrical consumption greenhouse gas emissions.	The building will be occupied by the teams as of September 2021; At that point, we will be able to accurately quantify our reduction of emissions relative to our former building
	Scope 3 <i>Emissions induced (upstream or downstream) by the company's activities, products and/or services in its value chain.</i>		This project will optimise water management, consumption of consumables (shared post) and waste recycling.	The building will be occupied by the teams as of September 2021; At that point, we will be able to accurately quantify our reduction of emissions relative to our former building
	Increase of carbon sinks			
	Emissions Absorption <i>Carbon sinks creation, (BECCS, CCU/S, ...)</i>			
	GHG emissions avoided by the company at third parties			
	Avoided Emissions <i>Emissions avoided by the activities, products and/or services in charge of the project, or by the financing of emission reduction projects.</i>			
	Clarification on the calculation or other remarks: NA			
Modality of verification of the quantification.	Calculation standard used (ADEME base, GHG protocol, etc.): NA at this time			
	Verification of the calculation (internal or external): NA at this time			
Other environmental and social benefits of the project	This project contributes to the following SDGs: - SDG 7 Clean and affordable energy (geothermal energy, energy recovery..) - SDG Industry, innovation, infrastructure (mixed wood/concrete structure, BIM model..) - SDG 12 Sustainable consumption and production (optimized management of water, consumables, waste...) - SDG 13 Climate change (low-carbon energy pole, photovoltaic panels, etc.) - SDG 15 Land life (green spaces, compensation project).			

Project maturity level	<input type="checkbox"/> Prototype laboratory test (TRL 7) <input type="checkbox"/> Real life testing (TRL 7-8) <input type="checkbox"/> Pre-commercial prototype (TRL 9) <input type="checkbox"/> Small-scale implementation <input checked="" type="checkbox"/> Medium to large scale implementation Remarks: click here to enter the level of maturity of the project
Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	/
Amount of investment made (in €)	Confidential
Economic profitability of the project (ROI)	<input type="checkbox"/> ST (0-3 years) <input type="checkbox"/> MT (4-10 years) <input type="checkbox"/> LT (> 10 years) Remarks: <i>Not disclosed</i>
Engaged partnerships	A partnership with Icade has been entered into through this project via the signature of a lease in future state of completion.
Open comments from the project owner	<p>“At a time when Technip Energies is writing a new chapter in its history, we make it a point of honour with Icade to ensure that our new headquarters in France reflects the leading role we play in the energy transition, through its design, composition and construction. Our goal is also to make Origine a modern workplace, in line with our evolving working methods and our engineering DNA”, indicates Arnaud Piéton in March 2021, for whom this project is “the result of the concerted efforts of all the teams since 2018 to provide a human scale environment that encourages communication, team work, friendliness, performance and innovation.”</p>
More about the project	
Contact the company carrying the project	frederique.le-moigne@technipenergies.com
Project URL links	Soon available
Illustrations of the project	

