

Simple, economical, fast and durable, REHASKEEN® makes it possible to industrialise and accelerate the renovation of energy-intensive buildings. In addition, our prefabricated facades are specially designed to meet the fire standards of collective housing and establishments open to the public, thus enabling the thermal renovation of high-rise buildings.

Starting date of the project	01/01/2019				
Project Localisation	Metropolitan France / Europe				
Places of implementation of the project at this stage and targeted geography if replicable.					
Project objectives	Massifying thermal renovations to accelerate the ecological transition				
Type of climate innovation of the project with a description of the problem/issue addressed					
Detailed project description	Large prefabricated panels for external insulation in rehabilitation				
Main project's drivers for reducing the greenhouse gas emissions	Reduction levers Energy and resource efficiency (including behaviour)		Details on the	aspects of the project	
appropriate boxes	□ Energy Decarbonisation ⊠ Energy efficiency improvements		Improvement of the thermal insulation of renovated buildings by external insulation.		
	 □ Improving efficiency in non-energy resources ⊠ Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S,) □ Financing low-carbon producers or 		Possibility of installation with bio-sourced insulation (wood wool).		
	disinvestment from carbon assets Reduction of other greenhouse gases emission		Improving the thermal insulation of buildings reduces the use of heating and cooling systems and therefore the emissions associated with heat transfer fluids.		
Emission scope(s) on which the project has a significant impact and quantification of GHG emission reductions per emission scope Indicate the aspects of the project that contribute to the reduction of emissions per category of emissions	Reduction of the company's ca	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.	
considered (left-hand column) and the quantification of associated emissions. Indicate the main hypotheses and calculation steps in the intended	Scope 1 Direct emissions generated by the company's activity. Scope 2 Indirect emissions associated	Better energy efficiency		Over the entire life cycle of the product, the associated greenhouse gas emissions (production, transport, installation, end of life) are of the order of 100 tCO2/energy renovation project, i.e. about 25% less than a conventional renovation solution.	
Section (below the table) For further details, please refer to the methodology guidelines.	with the company's electricity and heat consumption. Scope 3 Emissions induced (upstream or downstream) by the company's activities, products				

	and/or services in its value				
	chain.				
	Increase of carbon sinks				
	Emissions Absorption Carbon sinks creation,	Possibility of using bio-based insulation (wood wool).			
	(BECCS, CCU/S,)	. ,			
	GHG emissions avoided by th				
	Avoided Emissions Emissions avoided by the activities, products and/or services in charge of the project, or by the financing of emission reduction projects.	On average, upgrade from an E to a C energy label depending on the demands of the clients. All performances can be targeted, including passive buildings.	Changing the energy label from E to C reduces the emissions of a house by an average of 3 tCO2/year in France.		
	 Clarification on the calculation or other remarks: merci de préciser The environmental impact was calculated using the simplified Life Cycle Assessment methodology established by VINCI and validated by a scientific committee. According to this method, the emissions associated with the production of the product (materials, design, 				
	assembly) are evaluated at 8.7 teCO2; the emissions due to the installation of the product are evaluated at 1.46 teCO2 and at the end of life the materials can be recycled which would bring a benefit evaluated at 0 teCO2.				
	dwelling in France for heating and	to C allows for an average energy d cooling. With an average emission avoided emissions of 3 teCO2/year	factor of 188 geCO2/kWh for heating		
Modality of verification of the quantification.	Calculation standard used (ADEME base, GHG protocol, etc.): VINCI's internal calculation framework, based on Life Cycle Assessment				
Other environmental and social	Verification of the calculation (internal or external): external (Quantis)				
benefits of the project	Circular economy The design of the product, which can be completely dismantled (by elements or in its entirety) and recycled, allows it to be integrated into value chains for the management of the end of the building's life and for the				
If possible, list the impacts and <u>Sustainable Development Objectives</u> concerned	recycling and reuse of construction waste. The first Rehaskeen projects are currently being installed. Their design makes it possible to dismantle them and integrate them into the recycling chains, as practiced by the Group's businesses. At this stage, no product has had to be dismantled and recycled. It is therefore premature to illustrate this example in greater detail, as the first cases of use will come in possibly 20 to 30 years.				
Project maturity level	Prototype laboratory test (TRL Real life testing (TRL 7-8)	7)			
Tick the corresponding current maturity level	 □ Pre-commercial prototype (TRI □ Small-scale implementation ☑ Medium to large scale implementation 				
	Remarks: click here to enter the	e level of maturity of the project			
Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	The first prefabrication workshop was set up in the IIe de France region. Eventually, a national deployment is planned with a prefabrication workshop in each region. The model can be replicated in Europe.				
Amount of investment made (in €)	2M€				
Economic profitability of the project (ROI)	□ ST (0-3 years) ⊠ MT (4-10 years) □ LT (> 10 years)				
	Remarks: click here to enter the	e information			
Engaged partnerships	-				
Open comments from the project owner	-				
More about the project					
Contact the company carrying the project	rehaskeen@vinci-construction.fr				
Please specify an ad hoc e-mail address that will allow the reader to contact the project company directly					

Project URL links	https://france.vinci-construction.com/wp-content/uploads/sites/2/2022/10/rehaskeen-vc.pdf		
Titre SEO	Prefabricated building insulation panels		
Méta Description	Vinci has designed large prefabricated panels to insulate buildings from the outside.		
Illustrations of the project 3 photos/videos minimum (in HD format to be attached)			