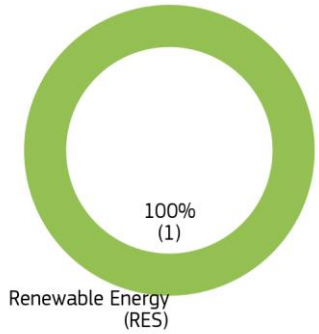
European Commission

# Innovation Fund Programme

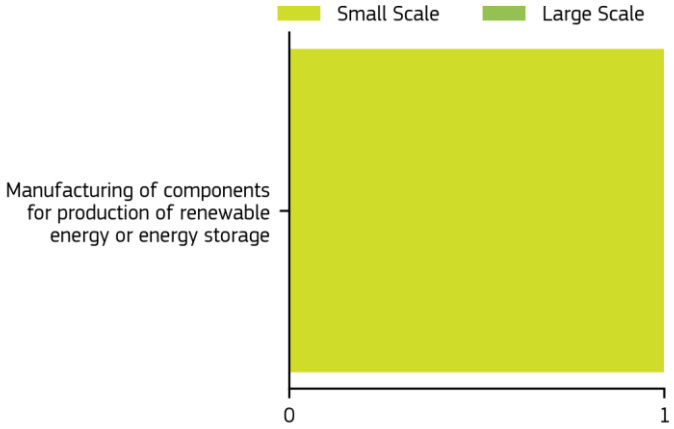
## Overview of ongoing projects in Hungary

Funded by the revenue of the EU Emissions Trading System, the Innovation Fund's goal is to help businesses investing in innovative low-carbon technologies with significant GHG emissions reduction potential.
The Innovation Fund currently supports **1 project** located in Hungary, which will contribute to the decarbonisation of European industries with a total expected GHG emission reduction of **49,547 t $CO_2$ equivalent in the first 10 years of operation.**
The total **Innovation Fund grant in Hungary is of EUR 2.2 million**, out of the **total relevant costs of EUR 0.0 million**, as defined in Art 5 of the Delegated Regulation 2019/856 on the Innovation Fund[1].

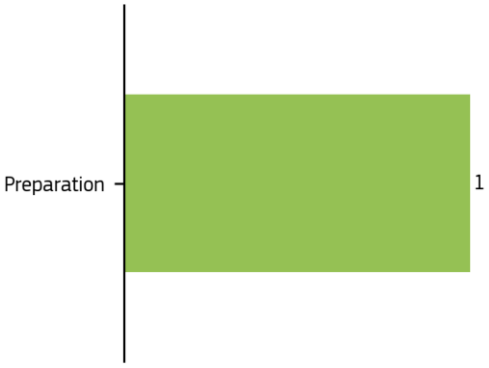
### Projects per category
*Number of projects and percentage of the total*



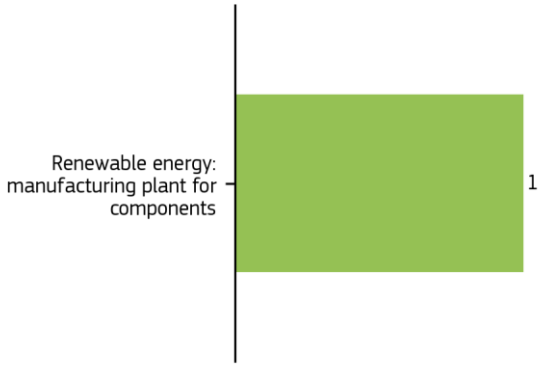

### Projects per sector
*Number of Small and Large-Scale projects*




### Projects per phase[2]
*Number of projects*




### Top 5 technology pathways[3]
*Number of projects*




[1] *OJ L 140, 28.5.2019, p. 9.*
[2] *Preparation means the period before financial close is reached; construction means the period between financial close and entry into operation; operation means that the construction is finished and the project has already started production.*
[3] *Projects may employ several technological pathways, only the top 5 per country are kept in the graph.*
*State of play: 18/06/2024*

## List of ongoing Innovation Fund projects in Hungary

| Acronym | Title | Sector | Start date | Project phase | Beneficiaries | Innovation Fund grant (EUR million) | Expected GHG emission avoidance (t CO2eq) |
|---|---|---|---|---|---|---|---|
| **Small Scale** | | | | | | **2.2** | **49,547** |
| GEN2HU | GENERON 2.0 Integrated Solar Roof Tile | Manufacturing of components for production of renewable energy or energy storage | 01/07/2024 | Preparation | Terrán Kft. \| UP | 2.2 | 49,547 |

## Project overview

| Acronym | Title | Description |
|---|---|---|
| GEN2HU | GENERON 2.0 Integrated Solar Roof Tile | The GEN2HU project aims to implement new technologies as part of the development of proprietary second-generation roof-integrated solar photovoltaic module solution, GENERON. With GEN2HU, the objective is not only to increase the products' sustainability and output power, but also to decrease the unit cost and the production waste at the same time. In terms of relative greenhouse gas reduction potential, the project is expected to reach 100% compared to the reference scenario.<br><br>The planned project's scope is to increase performance and the aesthetic appearance of GENERON by applying cutting-edge, innovative developments in the production process. The project includes three main innovative elements, namely, the use of shingle-matrix technology, decreasing the lead in the soldering alley, and the introduction of terracotta-coloured tiles. By implementing the abovementioned innovations, GEN2HU aims to create a cost-efficient, more sustainable, and aesthetically functional roof integrated solar module which will contribute to the accessibility of solar energy and green transition of European households.<br><br>The project will be located at one of the main sites of Terrán, in Pécs, Hungary. Starting in July 2024, the project is planned to reach entry into operation and thus start volume production and market entry by April 2026 and will last until March 2029. The solution proposed would enable residential buildings, public buildings, businesses or even buildings with important cultural heritage to utilise solar energy without compromising their aesthetic appearance. The project is expected to contribute to and increase the cooperation between the actors of the supply chain and would open further directions in the product development aiming at improving the energy efficiency of historical residential and public buildings.<br><br>The Project aims to support the green transition of the European Union, especially in the Central and Eastern European regions. Offering a cost-efficient, sustainable, roof-integrated solar module solution, with aesthetics also suitable for conventional architecture and landscape, the project can contribute to the increase of the renewable energy's share in European households. GENERON 2.0 would also contribute to local and national policy objectives, including the Hungarian National Energy Strategy 2030. |