

 Early Warning System

EIB-20230649

BEDIMENSIONAL TWO DIMENSIONAL CRYSTALS (IEU GT2)



Quick Facts

Countries	Italy
Specific Location	Bolzaneto, Genova
Financial Institutions	European Investment Bank (EIB)
Status	Active
Bank Risk Rating	U
Voting Date	2024-10-16
Borrower	BEDIMENSIONAL SPA
Sectors	Industry and Trade
Investment Type(s)	Loan
Investment Amount (USD)	\$ 21.72 million
Project Cost (USD)	\$ 47.78 million



Project Description

According to the Bank's website, BeDimensional produce few layer graphene (FLG) and few layer Hexagonal Boron Nitride (FLhBN) for use in 5 main applications (Electrodes, Paints & Coatings, Textiles, Polymers and Lubricants). The project consists of the installation of an industrial batch line in Bolzaneto, Genova with start of operation in 2024 followed by the installation of two continuous lines, dedicated to the production of FLG and FLhBN, in Rosignano (Livorno) with start of operation in 2026.

The aim of the project is to support the promoter scale up and commercialisation plans. The first part of the project will install a batch production line in Bolzaneto, Genova in 2024 to allow commercial scale testing. The next stage will install two continuous production lines capable of producing commercial scale quantities of FLG and FLhBN in Rosignano (Livorno) with start of operation in 2026.

The promoter (BeDimensional) plans to scale up a production process to produce graphene on two sites in Italy. Graphene has multiple uses but a key use is to stabilise high silicon anodes which allows for improved cycle life and unlocks the extra capacity of the silicon anode for commercial applications. High silicon anodes offer significant advantages in terms of specific capacity and charging speed compared to current anode technology.



Investment Description

- European Investment Bank (EIB)



Private Actors Description

BeDimensional Spa. is a privately held company which was born in 2016 from the Technological Transfer program of the Italian Institute of Technology (IIT), inspired by the initiative of leading worldwide researchers in the field of graphene and two-dimensional materials.



Private Actor 1	Private Actor 1 Role	Private Actor 1 Sector	Relation	Private Actor 2	Private Actor 2 Role	Private Actor 2 Sector
-	-	-	-	BeDimensional Spa	Client	-



Contact Information

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ACCESS TO INFORMATION

You can submit an information request for project information at: <https://www.eib.org/en/infocentre/registers/request-form/request-form-default.htm>

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Bank Documents

- [Environmental and Social Data Sheet \(ESDS\) - BEDIMENSIONAL TWO DIMENSIONAL CRYSTALS \(IEU GT2\)](#)

Media

- [Italy: Europe to gain advanced industrial edge as EIB finances BeDimensional with €20 million for ne](#)



Other Related Projects

- EIB-20230701 THEMATIC GREEN TRANSITION (IEU VD & DEBT) LE II