



MATER-BIOPOLYMER is a company headquartered in Patrica (FR) and part of the NOVAMONT GROUP, a pioneer and world leader in the bioplastics sector and in the development of bioproducts.

MATER-BIOPOLYMER is the group's society dedicated to the production of ORIGO-BI, biodegradable biopolyesters with an increasing content of raw materials of renewable origin, thanks to the upstream integration of proprietary technologies. The ORIGO-BI biopolyesters are an essential component of the process to produce the family of compostable bioplastics known as MATER-BI, with a continuous innovation of their technical and environmental performances.

MATER-BIOPOLYMER, in line with NOVAMONT strategy, which is based on the use of world-first technologies for the regeneration of no longer competitive sites, is a virtuous example of industrial development in terms of regeneration of local areas, continuous innovation and valorisation of pre-existing skills and infrastructures.

The plant is in fact a **converted PET** production plant. Thanks to **NOVAMONT**'s innovative technologies and knowhow, the various sections of the plant have been regenerated or replaced, becoming part of a new process which allows the use of renewable raw materials. Moreover facilities have been implemented to increase the sustainability and significantly reduce the emissions.

MATER-BIOPOLYMER is a highly efficient plant that is able to ensure compliance with the highest quality and safety requirements and is equipped with a complex system of utilities which contribute to minimising costs and waste through the recovery and reuse of waste.

In 2016 the construction of a distillation section for the wastewater resulting from the process was started. This allowed the recovery of the tetrahydrofuran (THF) that is generated during the polymerisation reaction. Once distilled, this **THF of renewable origin** is intended for the chemical and pharmaceutical industries.

The plant covers an area of 74,000 m², has a production capacity of 100,000 tonnes per year, employs around 90 employees and works hand in hand with **NOVAMONT**'s Research and Development department for a continuous improvement of the process, and to expand the range of products and applications, starting from the use of more and more renewable and local raw materials.

RECONVERSION: FROM PLASTICS TO BIOPLASTICS

1990 – SIPET is set up through a JV between Shell and M&G Group

Launch of the 1st PET production line

I Implementation of a 2nd PET production line

2000 – SIPET is acquired and becomes M&G Polimeri Italia

2009 The plant is too small for the expanding PET market: a line is shut down

 A project is born to verify the feasibility of a reconversion using NOVAMONT technology

2010 – NOVAMONT decides to proceed with the conversion of the first line of the plant assuming a series of interventions and transitions in order to get to a continuous production of its biodegradable and compostable polyesters

2011 Launch of the ORIGO-BI production and start of the process of continuous improvement, which has reached its final set in 2015

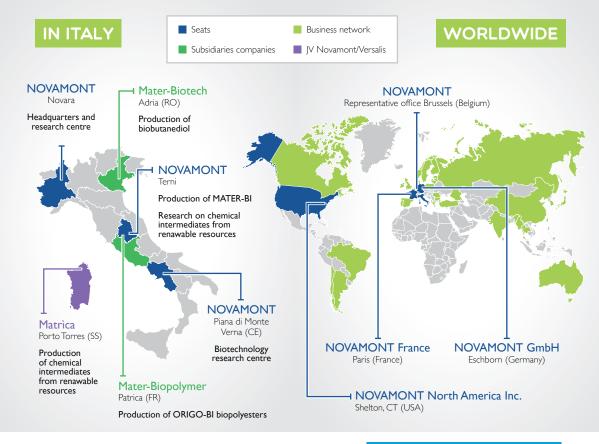
2014 NOVAMONT acquires 78% of M&G Polimeri Italia

2017 – NOVAMONT acquires all of the M&G Polimeri Italia shares

 M&G ceases PET purchase and the second line remains inactive. Its conversion is decided

2018 The conversion of the second PET line is completed and the production of ORIGO-BI is doubled

NOVAMONT GROUP: WHERE WE ARE





We are the world's leading company in the sector of bioplastics and in the development of bioproducts obtained through the integration of chemistry, environment and agriculture.

We are driven by innovation: we invest in R&D activities and develop new proprietary technologies which allow us to constantly improve the performance and environmental profile of our products.

Our development model starts from local areas and creates integrated biorefineries by converting uncompetitive industrial sites, respecting the specific characteristics of the territories, in partnership with all the stakeholders in the value-chain.

Our approach is cultural as well as industrial, with the aim to create jobs and competitiveness, enhancing local skills and implementing training programmes at all levels.

WHAT IS MATER-BI

MATER-BI, designed and developed by NOVAMONT, is an innovato its biodegradability and compostability properties (EN 13432) it allows optimal organic waste management and con-

MATER-BI grades are all certified according to European and

order to solve specific environmental problems, such as

Jul OUR 2017 IN NUMBERS

TURNOVER: > €195 million

- > **600** people
- 4 production sites
- 8 compounding lines
- 4 world-first technologies
- **3** R&D centers
- 6% of turnover invested in R&D
- 24% of people dedicated to R&I

Approx. 1,000 patents

> 350 training activities since 1996



If recycled by composting, applications made of MATER-BI can return to the earth in the form of compost, a valuable soil improver bringing high agronomical benefits, thus ending their life cycle naturally and without producing waste.

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