

IEA Bioenergy

Task42 Biorefining in a
Future BioEconomy

Country Report Italy

Short update – November 2019



Isabella De Bari*, Maria Teresa Petrone
ENEA

*Italian Team Leader IEA Bioenergy Task42



IEA Bioenergy, also known as the Technology Collaboration Programme (TCP) for a Programme of Research, Development and Demonstration on Bioenergy, functions within a Framework created by the International Energy Agency (IEA). Views, findings and publications of IEA Bioenergy do not necessarily represent the views or policies of the IEA Secretariat or of its individual Member countries.

latest news

From August to November 2019 Biorefining in Italy: last updates

Novamont launches FDCA



ENI starts the biorefinery in GELA



ENI Versalis restarts Crescentino



The crash of Bio-On



latest news

29th August 2019

Novamont and Invitalia invest 10 million euros in compostable food packaging

Novamont presented to **Invitalia** a project for the production of 2,5-furandicarboxylic acid (FDCA) in a new demonstration plant to be built in **Terni** obtaining **a loan of 5.8 million euro** within a total investment of **10 million euros**, which will lead to the creation of **12 new jobs**.



- Novamont will use 2,5-furandicarboxylic acid (FDCA) as a monomer to produce V-generation Mater-bi® and develop packaging with barrier properties to oxygen and carbon dioxide.

13th September 2019

ENI Versalis hires in Crescentino

The **Mossi&Ghisolfi bioethanol production plant in Crescentino**, acquired by **ENI Versalis** in November 2018, **will be restarted in December 2019 and put back into operation by May 2020.**



- To date, **over 120 people have been hired** by ENI Versalis, approximately 80 in Crescentino and 40 in Rivalta Scrivia.
- Within the year, around 35 **new hires are expected** in Crescentino.

The **action plan of ENI Versalis for the next six months includes:**

1. the reactivation of the **biomass boiler**;
2. the design of **water treatment section** (to reduce odor emissions);
3. the interventions for **regulatory compliance of all the plants** (electric, fire-fighting, etc.);
4. the start-up of **water treatment processes, biomass pre-treatment, hydrolysis, fermentation and distillation** for the subsequent production of bioethanol.

25th September 2019

ENI starts the biorefinery in GELA

ENI starts **the most innovative biofuels production plant in Europe**. With a **processing capacity up to 750,000 tons per year**, it will be able to progressively treat **100% of second-generation raw materials**.



The ribbon cutting

- To date, **294 million euros** have been spent **for the plant reconversion**
- **73 million** in investments **for the construction of the new biomass pre-treatment plant**, which will be completed by the third quarter 2020 and **will enable the biorefinery to be powered entirely with unconventional feedstocks** (i.e used oils, animal fats, and by-products and advanced feedstocks namely oils from algae and lignocellulosic materials).

latest news

23rd October 2019

The crash of the start-up Bio-On

Bio-On S.p.A. has been accused of fraud against the stock market. The start-up that had a very high value growth in 2018, exceeding the capitalization value of one billion two hundred million, undergoes a financial attack by the Quintessential fund that denounces inflated budgets, destined to fail.



- On its website, Bio-On S.p.A. informs that **the President Astorri has resigned from all the offices of the Company.**
- Furthermore, **Bio-On S.p.A. and all its employees are committed to giving continuity to the PHAs technology development project despite the difficult corporate moment.**

Breaking news - 12nd November 2019

Bio-On suspends payments to employees, suppliers and banks.

IEA Bioenergy

Task42 Biorefining in a
Future BioEconomy

www.task42.ieabioenergy.com

ENEA
Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

latest news

From 2018 to 2019

Policy Updates: Italian perspective for Biorefineries and Biofuels

2030 Climate Energy Plan, **Italy towards decarbonisation.**



- 56%

Industry emissions

- 34,6%

Transport emissions

30%

Renewable sources

through 5 intervention axes



DECARBONIZZAZIONE



EFFICIENZA



SICUREZZA
ENERGETICA



SVILUPPO DEL MERCATO
INTERNO
DELL'ENERGiA



RICERCA,
INNOVAZIONE
E COMPETITIVITÀ

latest news

From 2018 to 2019

Policy Updates: Italian perspective for Biorefineries and Biofuels

A new paradigm:

The environment will be preserved by conciliating industrial development and ecological choices.

- **RENEWABLE SOURCES**
- **INDUSTRIAL RECONVERSION**
- **NEW SUPPLY CHAINS**
- **NEW BIOREFINERY CONCEPTS**
- **CIRCULAR ECONOMY**

IEA Bioenergy

Task42 Biorefining in a
Future BioEconomy

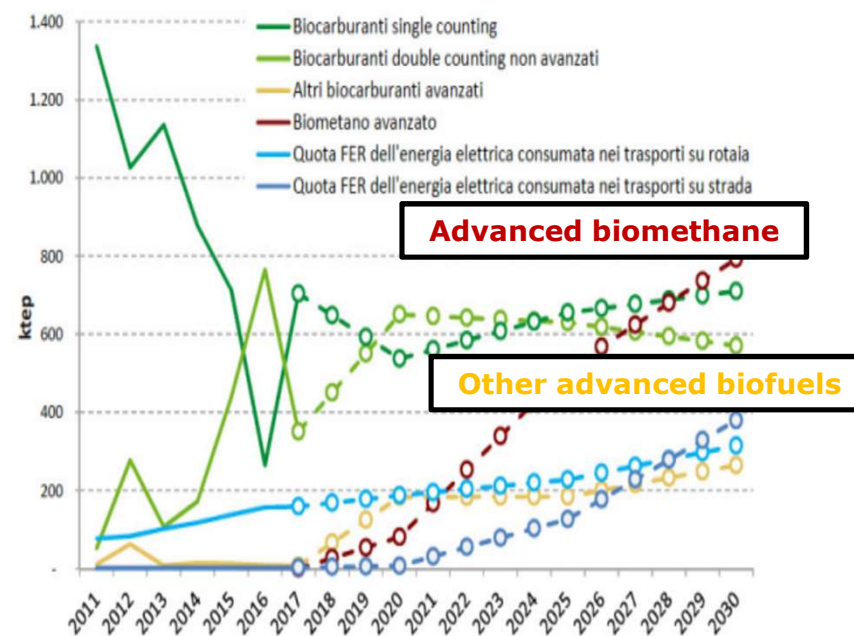
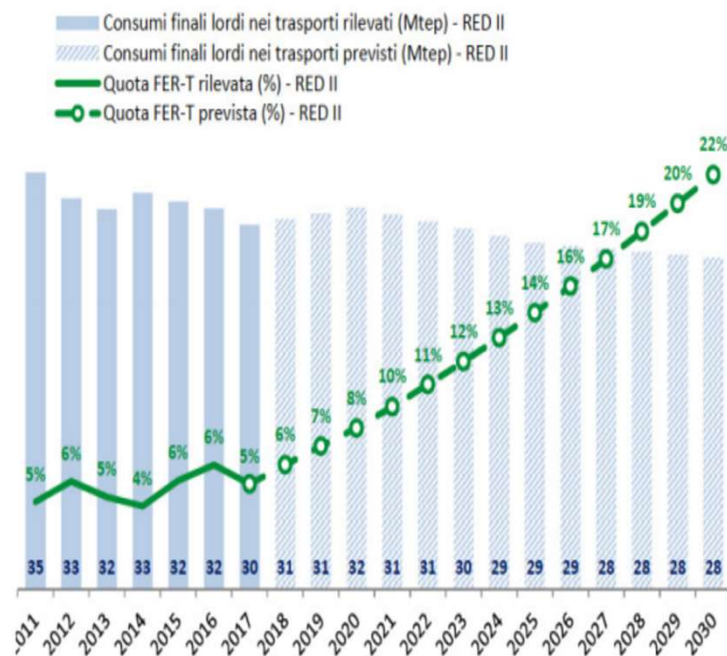
www.task42.ieabioenergy.com

ENEA
Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

latest news

From 2018 to 2019 Policy Updates: Italian perspective for Biorefineries and **Biofuels**

- **21.6% release for consumption** (more ambitious than 14% in RED II)
- **8% advanced biofuels by 2030** (more ambitious than 3.5% in RED II)
- Growth of renewable electricity on the road (**up to 380 ktep**)

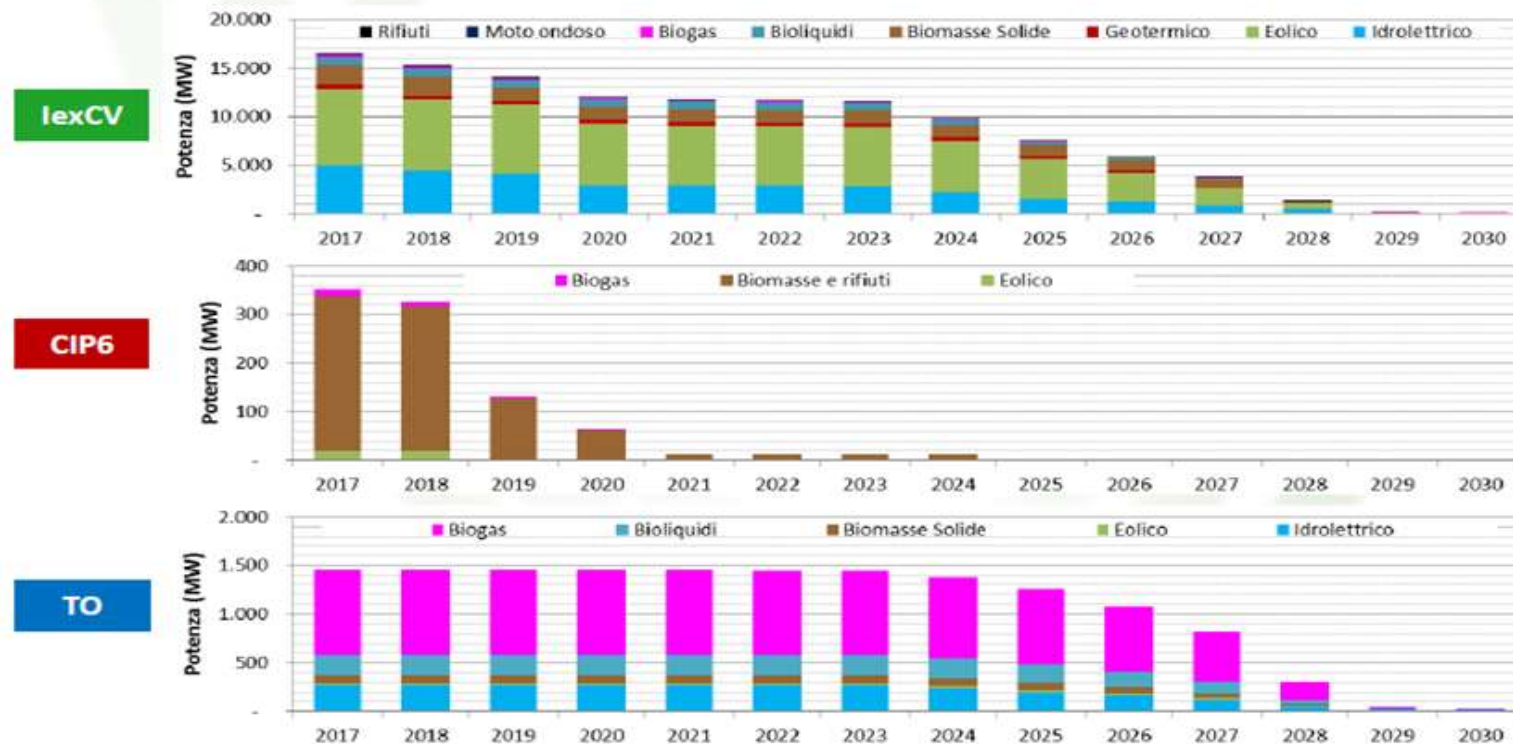


latest news

From 2018 to 2019

Policy Updates: Italian perspective for Biorefineries and Biofuels

SCENARIO: A progressive reduction of the incentive power by 2030 (expiry of the incentive period for plants lexCV, CIP6 and TO)



IEA Bioenergy

Task42 Biorefining in a
Future BioEconomy



Contact Details

Isabella De Bari

Division of Bioenergy and Green Chemistry
ENEA Trisaia Research Centre
SS 106 Jonica, Rotondella (MT)

☎ +39 0835 974 618

✉ isabella.debari@enea.it

IEA Bioenergy Website
www.ieabioenergy.com

IEA Bioenergy Task42 Website
www.task42.ieabioenergy.com