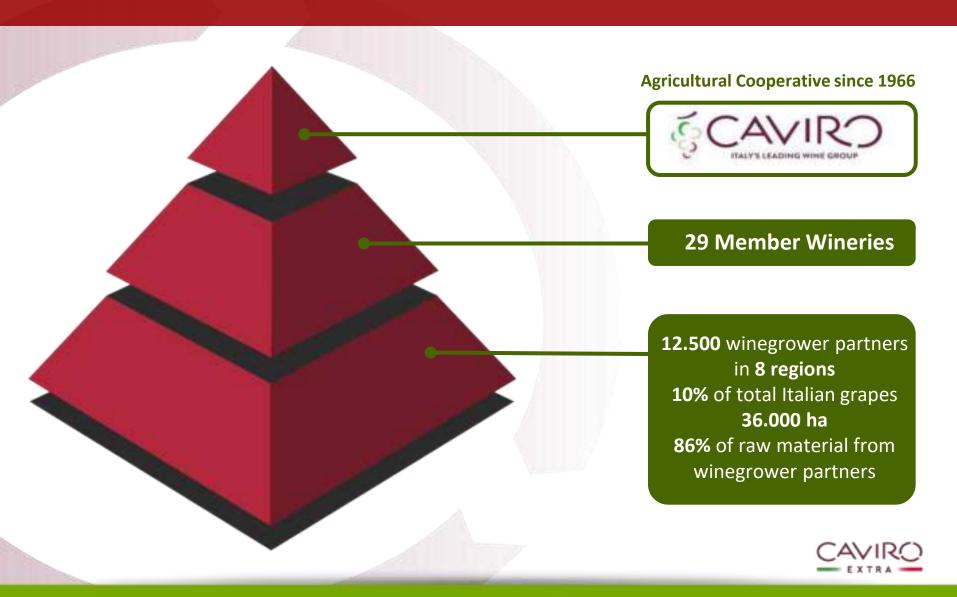


Caviro Extra:

Supply chain, Sustainability, Circular Economy and Innovation

www.caviroextra.it

The largest Italian wine production chain



Caviro Group





Caviro Extra: Mission & Vision

NATURAL INGREDIENTS, RENEWABLE ENERGY, SUSTAINABLE INNOVATION

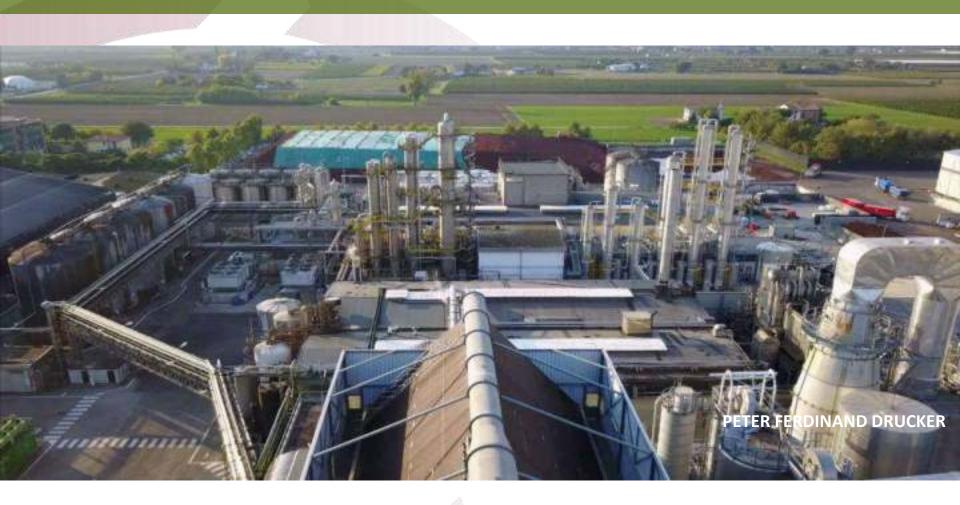
Caviro Extra leads innovation in the research and development of quality ingredients and high added value products deriving from the enhancement of waste products from the Italian agri-food industry.



Scale Economy – big volumes of materials



Scale Economy – big and efficient plants





Caviro Extra - Business Units



EXTRA Mosti ed Estratti

MCT e MCR, grape juices, pips, oenocyanin

EXTRA Tartarica

natural tartaric acid

EXTRA Eco-Energia

purification, biomethane, natural fertilizers

EXTRA Alcoli ethyl alcohol of agricultural origin

The quality of **Caviro Extra alcohol**, which is **100% bio-based**, derives from its vinous origin, linked to **Gruppo Caviro's wine-making industry**



FOOD

Neutral Alcohol (min 96°)

alcoholic beverages, flavourings, essences, baking



PHARMACEUTICAL

Ethyl Alchool

Excipient, denaturant, solvent and etherifier.



COSMETICS

Ethyl Alchool

Perfumes, hair lacquer, mouth washes, and generic cosmetics.



INDUSTRIAL CHEMISTRY

Ethyl Alchool

solvent for grease, resins, esters, organic substances, varnishes for the preparation of inks



DOMESTIC USE

Denatured Alcohol

common usage in domestic detergents.



ENERGY

Bioethanol

natural heating fuel for bio-stoves , fuel for the transport sector



EXTRA Mosti ed Estratti

MCT e MCR, grape juices, pips, oenocyanin

All the ingredients for a **high-quality industry** from **grape pressing**



FOOD

Mosto Concentrato Rettificato and Oenocyanin (E163)

yoghurt, ice cream, desserts, drinks, fruit juices, baking products



OENOLOGY VINEGARS

Mosto Concentrato Tradizionale Mosto Cotto

production of high quality still and sparkling wines Balsamic vinegar Modena IGP



PARAPHARMACEUTICALS COSMETICS

Polyphenols

From a selection of fresh **unfermented marc**, the seeds are extracted, so that they can then be used to extract **polyphenols**, **which are natural antioxidants**, used in many sectors as fundamental ingredients of innovative products.



EXTRA Tartarica

natural tartaric acid



Natural Tartaric Acid: from baby food to its use in the construction industry through caviro's direct production chain



FOOD

Acidifying substance and natural preservative, emulsifier in industrial baking products



PHARMACEUTICAL

Excipient and adjuvant of the active substances, used in syrups, capsules, effervescent powders...



CHEMICALS

It is used in cosmetics, for the production of cremes, powders, production of surfactants, electronic devices, and used in printing.



CONSTRUCTION

For the production of plaster and cements for renderings.



EXTRA Eco-Energia

purification, biomethane, natural fertilizers



Renewable Energy and Advanced Biomethane for the transport industry



AGRI-FOOD LIQUID WASTE RECOVERY

Leader in Italy

for the recovery of waste water from agri-food industry





ENERGY FROM RENEWABLE SOURCES

Xo-generated power supply system producing

109.000.000 KWh

Thermal: **114.000 MWh**



BIOGAS

Produced Biogas 15.500.000 Nm3



BIOMETHANE

Production capacity
12.000.000 Nm3
corresponding to fuel
for 18.000 vehicles
per year *



FERTILIZER

18.400 tFertilizer production

*small car (1.400cc) consumption 1 mc = 17 km Source QUATTRORUOTE 11.200 km/year Source Facile.it

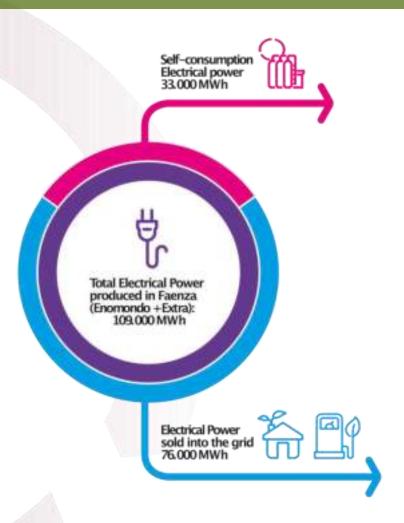


Value from waste: electric energy



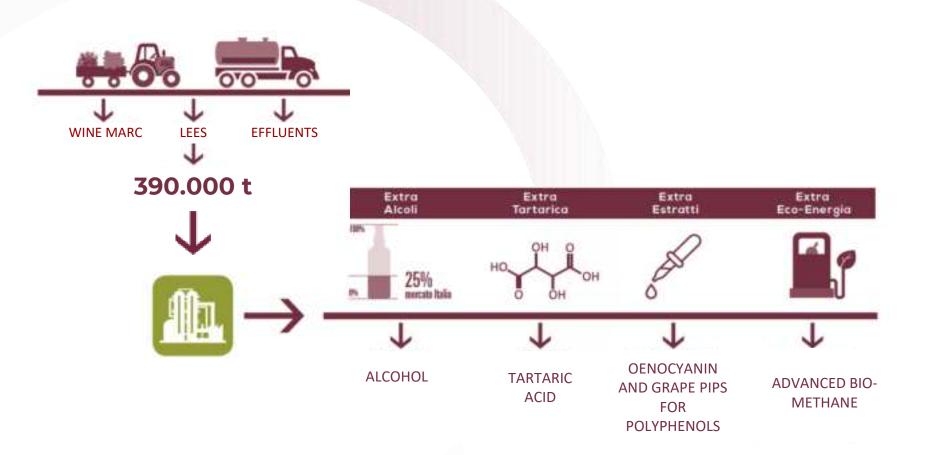
Guarantee of origin:

65% of energy fed to the grid has been certified as renewable



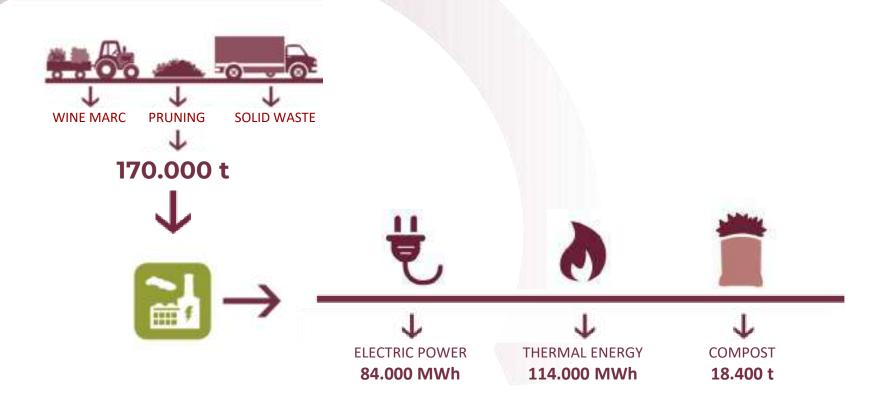


Caviro Extra in summary





Enomondo in summary











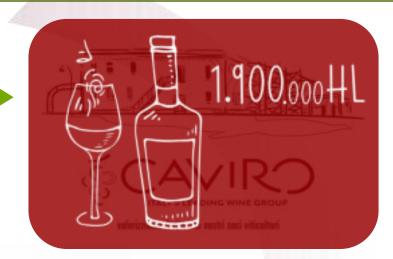
we specialise in the management of biomass plorits

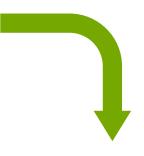




we develop the sub-products of the agri-food industry









we specialise in the management of biomass plorits





we develop the sub-products of the agri-food industry





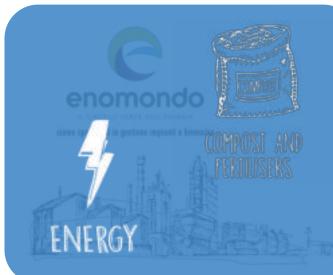










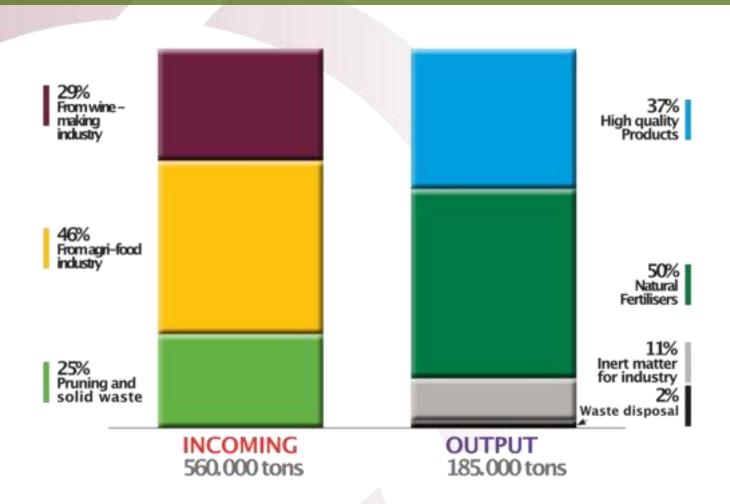




we develop the sub-products of the agri-food industry



Caviro Extra and Enomondo 2018: generate value from waste





Innovation



Caviro Extra and continuous innovation





Advanced Bio-Methane and Bio fuels



BIOMETHANE

Production capacity
12.000.000 Nm3
advanced biomethane, without
fossil hydrocarbons





ACF / Sludge project



ACF / Sludge

The objective is the constant increase in the amount of organic substance returned to the soil in the form of compost and fertilizers



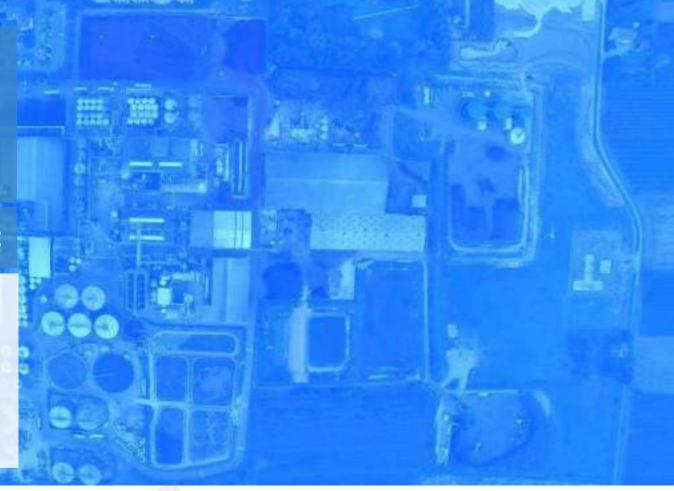


Water footprint reduction



Water Footprint

Reduction of groundwater use thanks to cutting-edge technologies in water recovery from industrial cycle





Nothing is destroyed everything is transformed



