

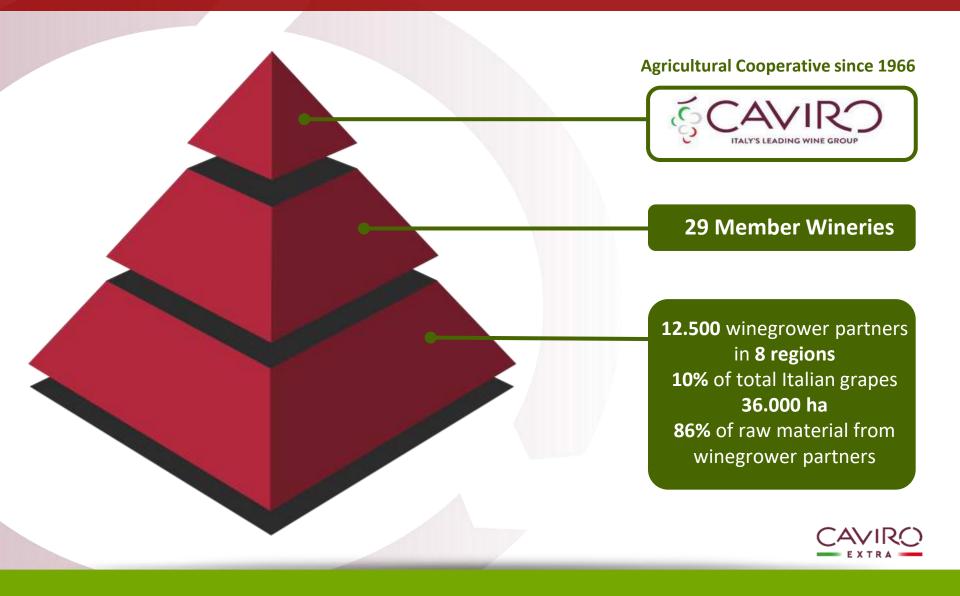
Caviro Extra: Supply chain, Sustainability, Circular Economy and Innovation

www.caviroextra.it

The Group and the Supply Chain



The largest Italian wine production chain









BOTTEBUONA

BRUMALE







ODENESI CANTINA DAL 1968



Ceonardo de Vincj

CANTINE LEONARDO DA VINC





VINI D'ITALIA

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.



Caviro Extra - Business Units

EXTRA Alcoli

ethyl alcohol of agricultural origin

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**

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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

common usage in

Denatured

Alcohol

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

1

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

TARTARICA TREVISO 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.



The excellences of Caviro Extra



Denatured Alcohol 99.9% for pharmaceutical use



Biobased Natural Tartaric Acid suitable for baby food production



The excellences of Caviro Extra



Grape seeds for polyphenols parapharmaceutical and nutraceutical use



Oenocyanin natural red food colouring



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

FERTILIZER

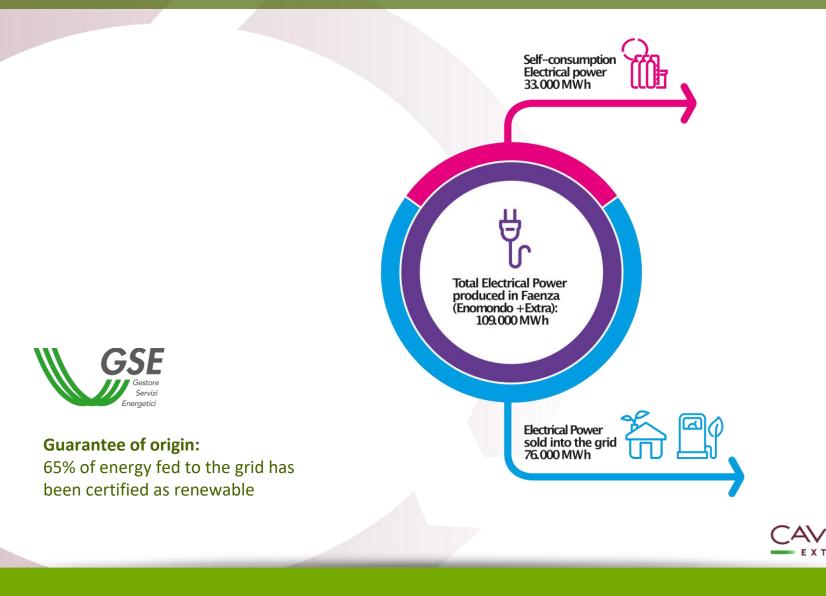
Production capacity 12.000.000 Nm3 corresponding to fuel for 18.000 vehicles per year *

18.400 t Fertilizer production

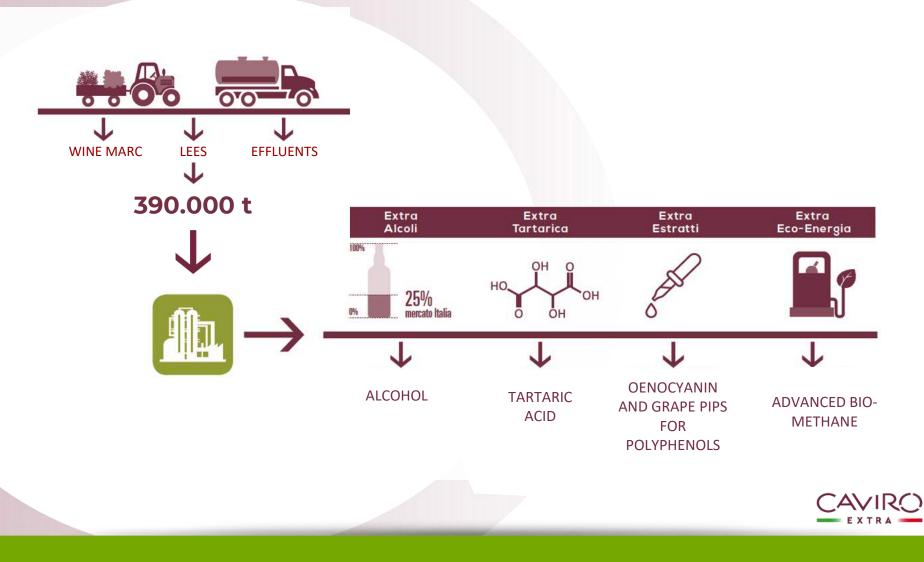
*small car (1.400cc) consumption 1 mc = 17 km Source QUATTRORUOTE 11.200 km/year Source Facile.it



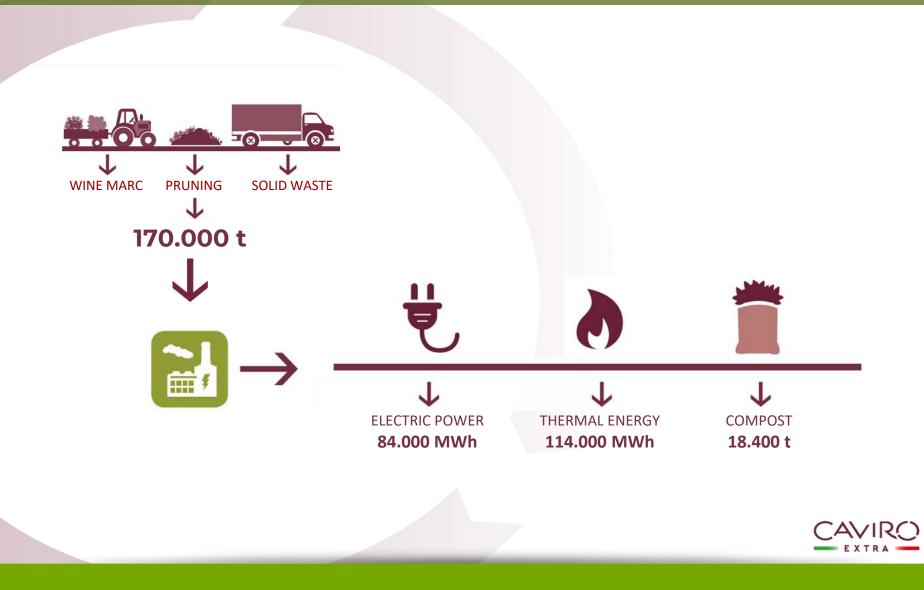
Value from waste: electric energy



Caviro Extra in summary



Enomondo in summary



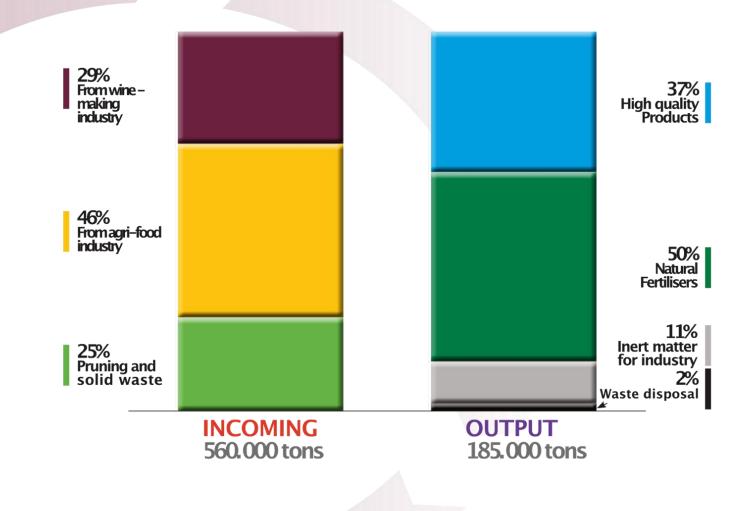








Caviro Extra and Enomondo 2018: generate value from waste



Innovation



Caviro Extra and continuous innovation

Innovation is the specific instrument of entrepreneurship. The act that endows resources with a new capacity to create wealth.

PETER FERDINAND DRUCKER



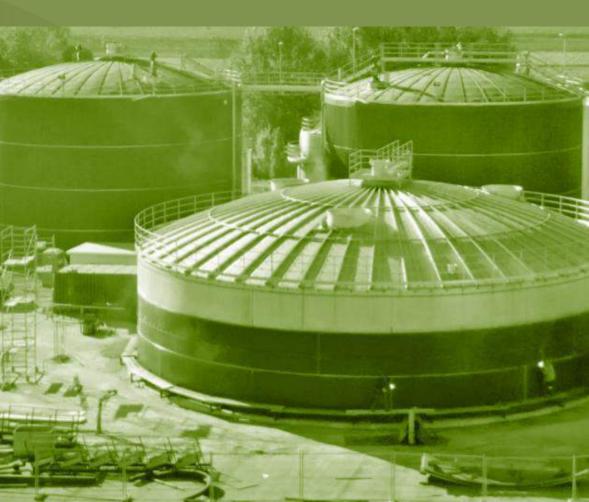
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Advanced Bio-Methane and Bio fuels



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

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Water Footprint

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



Cooperation's strength



Scale Economy – big volumes of materials

100.000 t/y Marc 30.000 t/y lees



Scale Economy – big and efficient plants





Scale Economy – know how

H





Community





Cooperation + Circular economy \rightarrow Resiliency



Nothing is destroyed everything is transformed



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