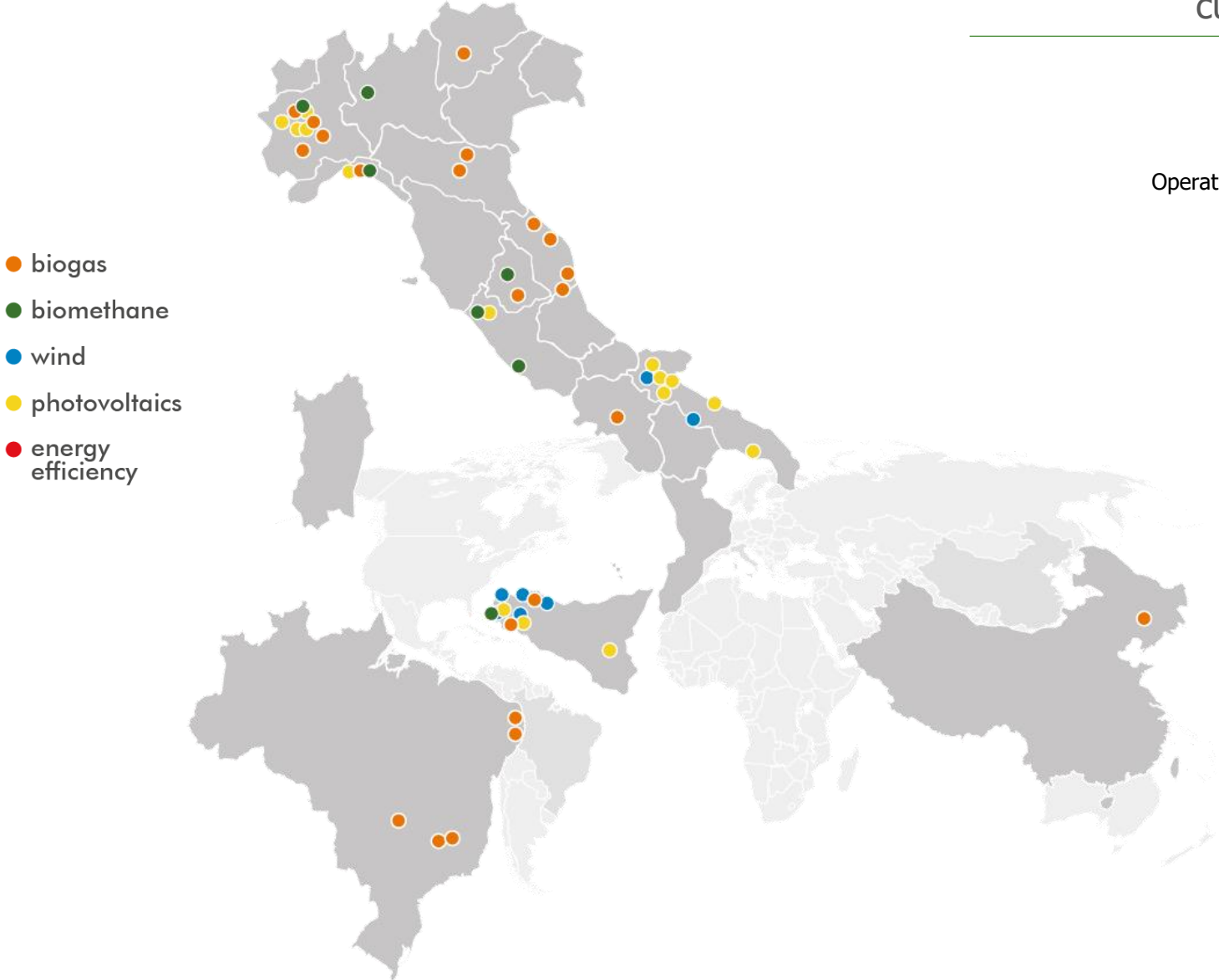


- biogas
- biomethane
- wind
- photovoltaics
- energy efficiency

Asja Group

asja

current worldwide presence



- biogas
- biomethane
- wind
- photovoltaics
- energy efficiency

Asja operates also abroad:

- in Brazil;
- in China;
- in Colombia.

biomethane/OFMSW (1)
12 plants
Operating, under construction and development

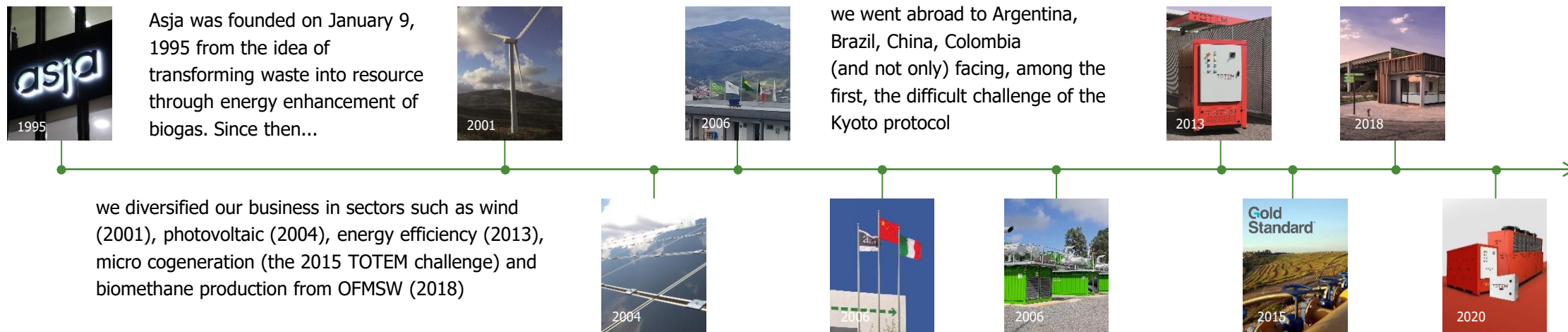
biogas
130 MW
52 plants built
22 currently operating
Leader in Italy first to realize a CDM project
Gold Standard Certification

wind
127 MW
11 wind farms built
10 currently operating
First in Italy to install Vestas V117 Turbines

photovoltaic
12 MW
15 plants built

microgeneration
200+ installed TOTEMS
3,000 mq manufacturing plant

Note 1: Organic Fraction of Municipal Solid Waste



During this time we have:

produced
7.000.000
 MWh of green energy
 (annual consumption
 per 9.400.000 people)

saved
11.400.000
 Oil barrels
 (fulfillment of the needs of
 1.400.000 people in one year)

avoided
18.000.000
 Tons of CO₂
 (quantity absorbed by a forest larger
 than the surface of Lazio region)

Asja is a member of...

Elettricità Futura

The main association that represents and protects large and small companies, operating in the Italian electricity generation sector and producing both renewable and conventional power. Its members supply more than 70% of the electricity consumed in Italy.

Agostino Re Rebaudengo is its president and he is also vice president of Confindustria Energia.



and...



In 2018 Asja entered the London Stock Exchange Group's international **Elite project**.

renewable electric energy



from wind, photovoltaic and landfill biogas plants

Energy efficiency and distributed generation



with TOTEM's line-up of products: micro cogenerators –CHP, gas heat pumps – GHP and control units for energy saving - ECO

circular economy

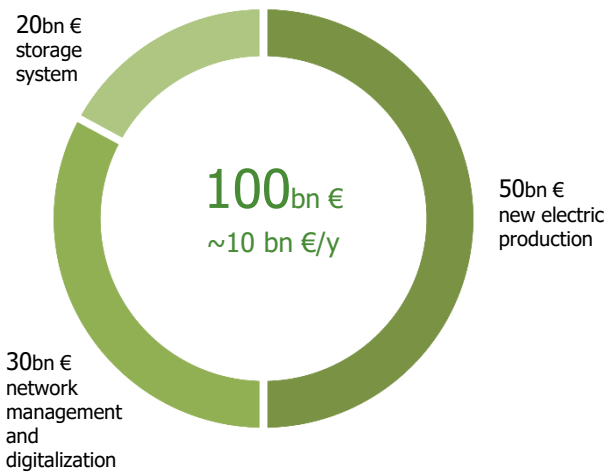


Through OFMSW treatment plants for the production of renewable energy (biomethane/electric energy) and quality compost

...and amount of investments 2021-2030

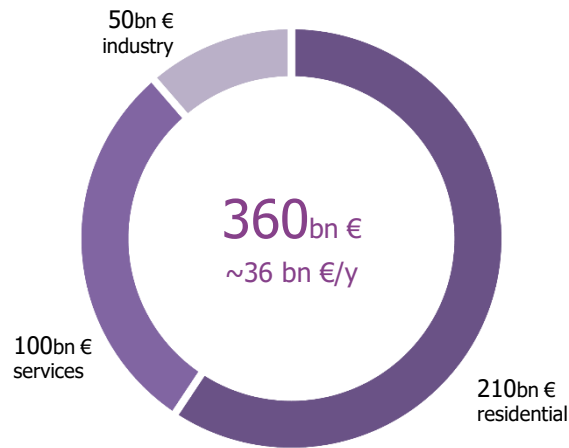
70% of Green power in 2030 over the 38% of 2020

renewable electric energy



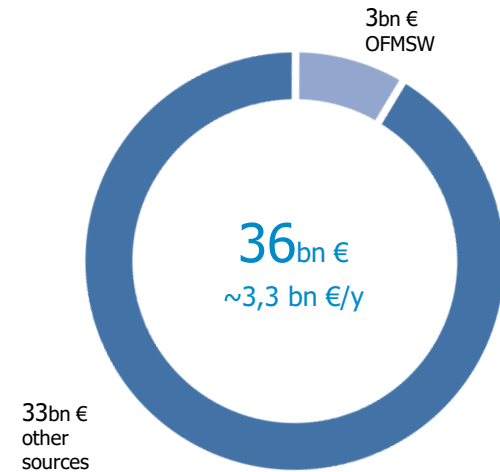
58% of savings on final consumption compared to 24% in 2020

energy efficiency



14% of biomethane into the gas grid compared to 1% in 2020

biomethane





wind



New wind plants for 100 MW

photovoltaic



New solar plants for 20 MW

biogas



New landfill biogas plants for 30 MW



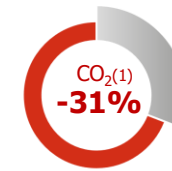
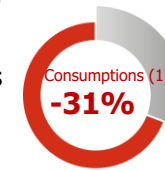
energy efficiency



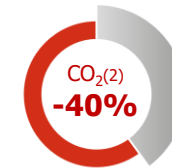
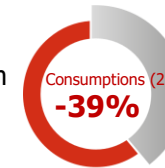
Asja for energy efficiency produces:

- the high-performance TOTEM micro-cogeneration system - CHP;
- the gas heat pump TOTEM GHP;
- the smart system for efficient management of energy and water TOTEM ECO.

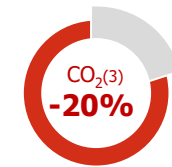
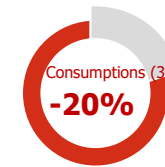
TOTEM CHP is a micro-cogenerator system fueled by natural gas/biomethane/LPG that generates heat and electricity at high efficiency.



TOTEM GHP is a gas heat pump that extracts renewable energy from the air to produce heat in the form of hot water (up to 75°).



TOTEM ECO is an Energy and Water Management System where energy and water consumption are efficiently managed and optimized.



Note 1: Compared to separate heat and power production;

Note 2: Compared to a Class 6 condensing boiler;

Note 3: Compared to ex ante situation. Consumptions are intended of energy and water.



In operation (4)

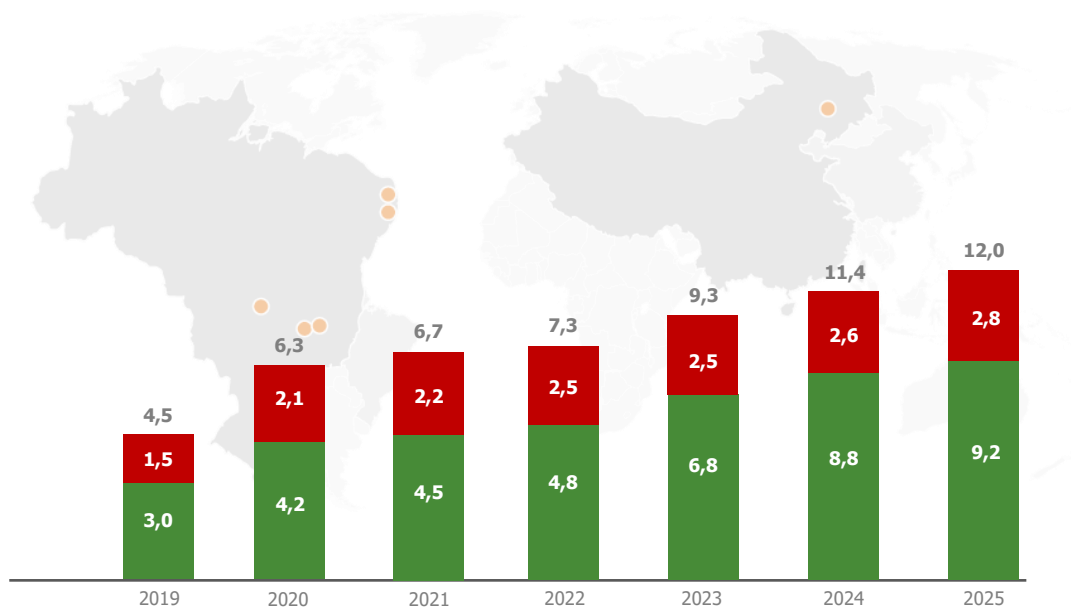


Under construction (4)

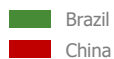


Under development (4)





Gross Profit 2018-2021 (millions of Euro)



Asja has an historical presence in **China** (2006) and it is the third operator in development in **Brazil** (2009), where the electricity production from landfill biogas shows excellent prospects.

Following the launch of new initiatives in recent years, Asja is already counted among the top players of reference for this technology in the Brazilian market.

The gross profit generated over the last four years by landfill biogas plants abroad is significantly growing both in China (installation of more performing engines) and in Brazil (Sabarà, Joao Pessoa e Jaboatao).

The trend has accelerated in 2020 thanks to all plants working at full capacity and the enhancement of restaurant waste at the Shenyang plant (China).

This trend will continue in 2021 with the launch of the new Sabarà GD plant (Brazil).

Green project

Green Principle

Social and environmental benefits

Main SDGs

OFMSW biomethane plant.

Circular economy and sustainable management of waste;
Pollution control and prevention;
Clean transportation.

Solid waste collection;
Climate change mitigation;
Reduction of fossil sources use.

Clean and accessible energy



Plants powered by renewable sources (wind, solar, biomass).

Renewable energy;
Pollution control and prevention.

Reduction of fossil sources use;
Climate change mitigation;
Pollution reduction.

Decent jobs and economic growth



Industry, innovation and infrastructure



Sustainable cities and communities



Microgenerators (TOTEM) and energy efficiency solutions.

Energy efficiency.

Reduction of fossil sources use;
Pollution reduction.

Responsible consumption and production



Fight against climate change



Life on Earth



Asja's financial report has been certified by EY from 2005 to 2019 and by BDO since 2020.

Since more than **20 years** all Asja's operating plants and corporate processes have been certified by RINA certification institution:

ISO 9001 - Quality: company process optimization to ensure an ever-increasing fulfilment of client requirements.

ISO 14001 - Environment: commitment based on awareness and respect for the environment.

ISO 45001 - Safety: ongoing improvement in the protection of workers health and safety.

231 Organization and Management Model: an effective document that include dedicated procedures against Crimes relating to Safety, Hygiene and Health at work, Environmental Crimes, Crimes against the Public Administration, Corporate Crimes, Tax Crimes, Receiving and Self-Laundering and IT Crimes.

Control Model and ERP integrated system: a permanent supervision of activities and processes profitability according to the ABC (Activity Based Costing) method through the use of innovative and in Cloud platforms (Qlik Sense) and the employment of an integrated accounting management software ERP Alyante.

SOA Certificate OG1-IIIBIS, OG9-V, OG11-IIIBIS, OG12-V, OS14-VIII: company's ability to execute public works in tendering processes.

green
energy
efficiency
by asja

www.asja.energy | www.totem.energy