



eco20^X

CHP SYSTEM



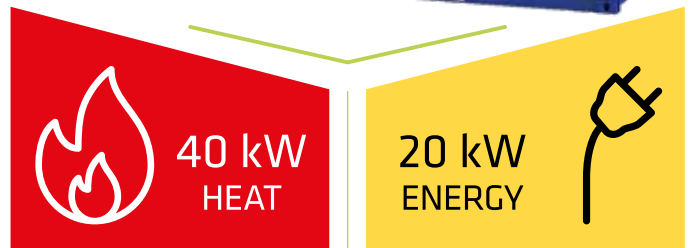
THE ITALIAN GREEN REVOLUTION

WOODEN WASTES BECOME VALUABLE

CMD ECO20X machine is a micro CHP (Combined Heat & Power) machine system transforming wooden wastes into synthesizing fuel gas (syngas) thus efficiently generating electrical energy and heat to be used during production processes for building heating, for self-consumption, for thermal facilities or community-district heating. Energy produced by ECO20X machine can be released into the national power grid, thus allowing to issue a remuneration from the energy distributor.

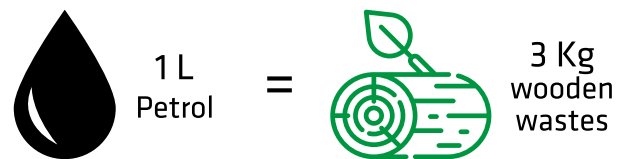
CMD ECO20X machine can generate up to 20kW energy and 40kW heat by exploiting 20 to 26 kilograms of different variety of wooden wastes. Pyro-gasification (or biomass gasification) is a thermo-chemical treatment optimizing wooden wastes. Through specific steps this treatment transforms wooden wastes into fuel gas.

Pyro-gasification (or else referred to as biomass gasification) is a thermo-chemical treatment to which wooden wastes undergo. Through a few different phases, this treatment transforms biomass into fuel.



100% GREEN ENERGY

Based upon the following energy equivalence: one litre of petrol corresponds to less than 3 kilos of wooden wastes. By exploiting wooden wastes, CMD ECO20X machine can entirely substitute fossil fuel. Pyro-gasification process produces GREEN ENERGY thus reducing pollution and avoiding the increase of global warming and greenhouse gas. Furthermore, fuel is renewable!



CERTIFICATIONS AND WARRANTY

CMD ECO20X machine achieved the European Community Conformity Standard as well as the European Community brand since this machine system is in compliance to all safety and quality standards required by law. ECO20X production process is certified according to the Integrated Quality - Environment - Safety Management System UNI EN ISO 9001/2017 - ISO 14001 - ISO 9100:2009 - ISO/TS 16949:2002.



SMART CHOICE



SAVING MONEY AND HEATING PROPERLY

Turning once again the wooden wastes into value contribute to reduce waste management costs to the point that new economies are generated thanks to the reduction of energy and heat consumption.



NATURAL FUEL

The considerable variety of wastes that can be exploited by ECO20X machine makes its use applicable within numerous industrial sectors.



CIRCULAR ECONOMY

ECO20X machine system transforms wooden wastes into energy by putting it again into recirculating thus avoiding all waste. ECO20X system respects environment thus allowing to be fully autonomous from fossil fuel as well as to reduce CO2 emissions in the atmosphere.



ENERGY INDEPENDENCE

It is the first step towards a new "independent management system" of resources since it allows electrical and thermal energy production and self-consumption to become entirely independent from all other operators.

ECO-ADVANTAGES



USER-FRIENDLY AND EASE IN MANAGEMENT

The assembly procedure of ECO20X machine is simple and its logistics is simplified owing to the reduced dimension of the machine. To start ECO20X machine is an easy procedure owing to its remote control: it is enough to push a button so as to switch it on.



FISCAL INCENTIVES

CMD ECO20X machine is included in the list of incentives foreseen by the Italian 4.0 National Industry Plan (such as hyper-depreciation, tax credit, financing and grants). Please, contact our Sales Department for further information.



ASSISTANCE UPON INSTALLATION

CMD is available to analyse free-of-charge the area of the plant wherein ECO20X shall be installed. Likewise, CMD can supply all engineering services necessary for the machine installation.



ASSISTANCE PROVIDED UPON START-UP OF THE MACHINE

CMD performs the biomass-compatibility tests of to be exploited to power ECO20X machine as well as it fine-tunes all eventually necessary treatment processes. CMD also provides the necessary assistance so as to obtain the administrative authorizations that are mandatory for ECO20X machine installation required by the current law provisions.



REMOTE CONTROL

The innovative software system allows to record and to check ECO20X machine activities by constantly monitoring the machine performance as well as providing immediate reporting of failures.



ASSISTANCE UPON FINANCING

Major Italian banking institutions are available to provide financing on CMD ECO20X machine.



GLOBAL SERVICE

CMD company supports its Clients starting from the drafting of the Business Plan all the way to the fine-tuning of ECO20X machine. A bespoke and flexible system according to each Client's requirements so as to allow ECO20X machine to be immediately installed on-site.



TECHNICAL SHEET*

Continuous Electrical Power	20kW _p @50Hz (the value dependent on biomass)	Noise Level (G. E. Silenced)	67 dB(A) 7m
Available Thermal Capacity	40kW _p (cfg standard)	Maximum Continuous Fully Operability	24h
Phases and frequencies	three-phase 50 Hertz	Compliance with EU Conformity Standard	yes
Output voltage	400 Volts	Consumption @100%	about 1kWh/kg
Average hourly consumption	25 Kilos per hour	Unladen weight	5.500 Kilos

RANGE OF APPLICATIONS

CMD ECO20X machine is ideal for industrial companies, national public institutions and departments having high energy need operating in agricultural and forestry sectors, wood industry, horeca - hotellerie-restaurant-café - industries, hotels, community districts, eco-resorts and wellness spas. ECO20X machine is also ideal to provide self-energy supply.



Sport facilities



SPA Wellness Centres



National public institutions and departments



Wood Industry



Small and medium sized enterprises



Agricultural and food sectors



Agricultural and forestry sectors

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AWARDS

CMD SpA Loncin Group was awarded with ELITE Prize by Borsa Italiana. The company also achieved WCM Award.