



eco20^x

renewable energy

THE ITALIAN **GREEN** REVOLUTION





ECO20x CHP system





CMG

ECO20^x
energia rinnovabile

We can generate energy, using residual matter

ECO20x is a microCHP system (Combined Heat & Power System) producing electric energy and heating, using wooden and agricultural scraps. Energy is produced through biomass pyrogasification, a thermo-chemical process developed at high temperature and with a low amount of oxygen.

eco20^x
energia rinnovabile

20kWh + 40kWh

⚡ electric energy

🔥 heat

per hour.

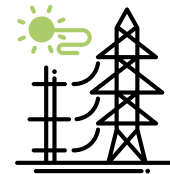
ECO20x IS FOR YOU



If you have a **large amount of wooden scraps** and you want to transform in electric energy and heat.



If your company has **high energetic needs** and you want to produce electric energy for internal use.



You want to put in grid a part of produced electric energy, combining profits and environmental safeguard.

ECO20x users

ECO20x is the perfect solution for companies, institutions, public bodies, companies operating in the agro-forestry sector, wooden industry, ho.re.ca, which produce original wooden waste.



BIOMASS AS OPPORTUNITY

ECO20x is a real power plant filled up with wooden fuel. Choosing biomass you can produce energy, reducing the greenhouse gas emissions in the atmosphere and avoiding petrol extractions.

ECO20x IS AN IMPORTANT SOLUTION FOR CIRCULAR ECONOMY

less of 3 kg wooden scraps
substitute 1lt of petrol.



1KG
PETROL

=



3KG
WOODEN WASTES

ECO20x plants are designed for using
different kind of biomass



CANE
RESIDUE



PEACH
PITS



OAK



ALMOND
SHELLS



HAZELNUT
SHELLS



GRAPEVINE
SHOOTS



TOBACCO
STALKS



FORESTRY
WASTE



CORN
STALKS



APRICOTS
PITS

ECO20x

ADVANTAGES

NO IMPACT ON ECOSYSTEM

ECO20x fits into the natural cycle while respecting the environment. Clean energy is generated, which has no negative effect on global warming.

BILL COSTS DECREASING

Wooden and organic biomass producers companies can decrease energy bill costs generating heat and electric energy by themselves.

ENERGETIC EFFICIENCY AND AUTONOMY

Companies can achieve energetic self-sustaining with a positive impact in terms of economic efficiency.

NATURAL FUEL

The wide range of fuel that can be used for this kind of system makes its use valid in many sectors.

AUTOMATED AND SAFE PROCESS

Each process phase is automated and can be controlled remotely or locally through a specific web interface, simple and user-friendly.

MINIMAL AND FUNCTIONAL DESIGN

ECO20x box includes all equipment to manage each process step: from biomass input to the energy production. Easy to install and to plug (indoor and outdoor).

MODULAR AND SCALABLE

The energy box, with its innovative design, making it more efficient and compact for total process management. It is adaptable and flexible. Its configuration "all-inclusive in a container" allows multiple installations and connections, to achieve much more output power.



CERTIFICATION

CMD ECO20x achieved the CE European Conformity since it is in compliance to all safety and quality standards required by European 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.





SERVICES

OUR SUPPORT TO INSTITUTIONS AND COMPANIES



CMD offers a full range of services to help companies and PA installing ECO20x CHP system, supporting them in each process phase.



INSTALLATION ASSISTANCE

CMD checks the area where ECO20x shall be installed, for free. Our company provides engineering services required for ECO20x installation.



ACTIVATION ASSISTANCE

CMD makes compatibility test of biomass to be used for powering ECO20x and provides for any necessary treatment processes. It provides for necessary assistance to obtain administrative authorization required by current regulation and necessary for ECO20x installation.



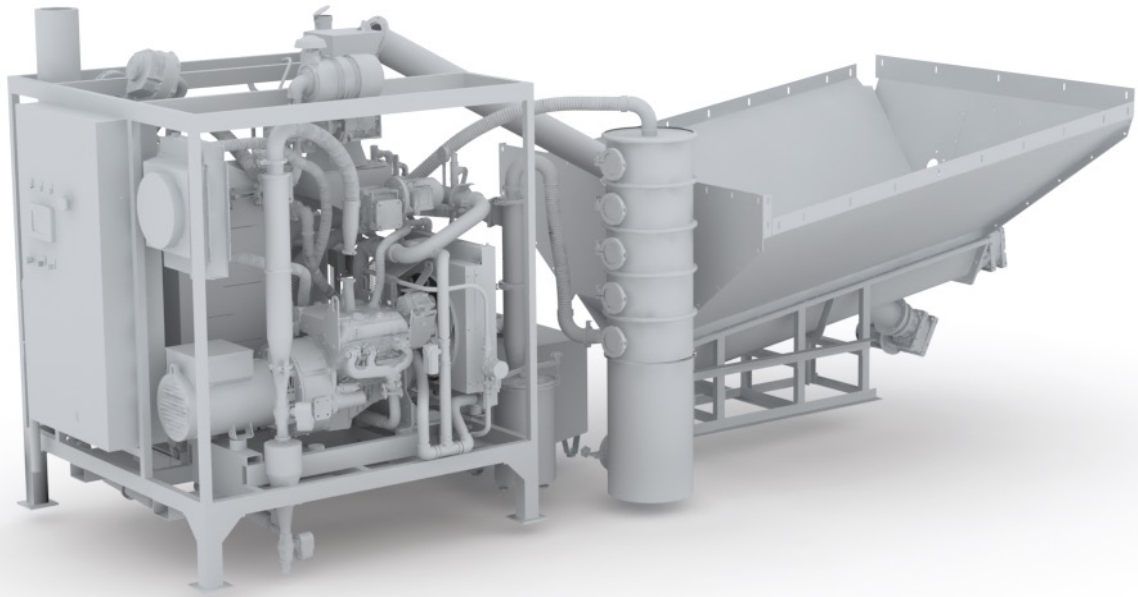
FINANCE ASSISTANCE

The most important Italian banking institutions are available to financing on ECO20x and it can have access to tax break (government grant, financing).



GLOBAL SERVICE

CMD gives support to potential customer from the Business Plan drafting to the ECO20x installation. CHP system is customizable and adaptable according to customer's needs. It is a full range of services according to "global service" formula and "turnkey system".



TECHNICAL SPECIFICATION C €

Available continuous power	20 kWp @50Hz (value according to biomass)
Available thermal power	40 kWp (cfg standard)
Sound level (Silenced gen set)	60 dB(A) 7m (possibility of soundproofing and dB reduction kit)
Max Continuous Operation	24h
CE - Conformity	Yes
Consumption @100%	1,24 - 1,25 kg/kWh
Start up Time	ca. 15 - 90 min
CHP Combined heat Power - production	Available
Box dimensions	Height = 2,73m / Width = 2,44 m / Length = 6,05 m Total Weight = 5.600 kg (box + equipment + biomass storage tank)



Via A. Pacinotti, 2 - 81020
San Nicola La Strada (CE) - Italy

Tel **+39 0823 424055**
Fax **+39 0823 452103**

Email **info@cmdengine.com**
www.eco20cmd.com



It should be noted that the continuous power performance may be subject to change in relation to the humidity degree of the wooden chips, as well as to the calorific value of the biomass used.

C.M.D. SpA reserves the right to change these terms and conditions at any time without prior notice.