



DON'T THROW
RESIDUAL
BIOMASSES AWAY.
VALORIZE THEM.

THE WORKSHOP WILL
TAKE PLACE AT THE
LABORATORY OF
SANITARY ENGINEERING
LISA OF THE DICEA
DEPARTMENT (UNIPD)

Lungargine Rovetta 8 - 35127 Padova (PD)



WITH THE
PARTICIPATION OF



CENTRO DI SPIRITUALITÀ E CULTURA
DON PAOLO CHIAVACCI



WORKSHOP

THERMOCOMPOST + MICRO ALGAE CULTIVATION

Innovative and integrated
systems to produce energy and
new value added materials from
organic residues in
decentralized communities

27 - 28
JAN

THEORY

+

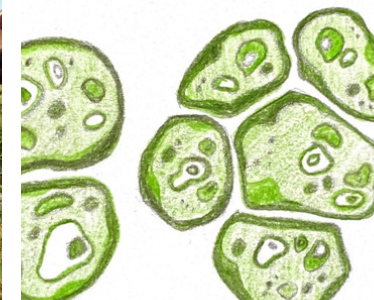
PRACTICE

Prof. Alberto Pivato
Prof. Maria Cristina Lavagnolo
Dr. Rachele Malesani
Dr. Andrea Schievano
Prof. Eleonora Sforza

JOIN THE WORKSHOP!

Starting time: 9 AM

Meeting with the partners: 11 AM



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THE CONVENTIONAL
ENERGETIC STRUCTURE IS NO
LONGER SUSTAINABLE. WE
NEED TO PERFORM A REAL
TRANSITION TOWARDS NEW
TECHNOLOGIES THAT ARE
NOT ONLY SUSTAINABLE BUT
EVEN REGENERATIVE.

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DURING THE 2-DAYS
WORKSHOP A
THERMOCOMPOST PLANT +
A GREENHOUSE FOR MICRO
ALGAE CULTIVATION WILL
BE BUILT

Thermocompost

INNOVATIVE
SUSTAINABLE AND
REGENERATIVE
HEATING PLANT

Through the thermocompost plants, residual biomasses can be valorized to produce thermal energy (thanks to the work of aerobic microorganisms performing the biodegradation of organic substances) for heating decentralised buildings, while producing also compost, a natural fertilizer

Microalgae

UNICELLULAR
PHOTOSYNTHETIC
ORGANISMS

The heat produced through thermocompost, can be used for microalgae cultivation in a greenhouse. These organisms during their growth can capture CO₂ and represent biomasses with high commercial value, like nutraceutical application, pigments for industry and even food.

