

DESTEC



UNIVERSITÀ DI PISA

Dipartimento di Ingegneria dell'Energia, dei Sistemi, del Territorio e delle Costruzioni

Corso di Dottorato di Ricerca in Ingegneria dell'Energia, dei Sistemi,
del Territorio e delle Costruzioni

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Invitation to the Webinar:

Anaerobic digestion process and technologies in a Circular Economy

held by

Isabella Pecorini, PhD

Assistant Professor in Environmental Engineering

Wednesday 15 May and Friday 17 May from 11am to 1pm

at DESTEC –

<https://teams.microsoft.com/l/team/19%3aac7175ec8db242d99d24e77ecd80e02c%40thread.tacv2/conversations?groupId=393e645a-3eb2-4c44-a829-67eb7a224036&tenantId=c7456b31-a220-47f5-be52-473828670aa1>

The transition from a linear economy to a circular economy is currently one of the biggest challenges in the field of organic municipal solid waste management.

In this seminar, the management of organic municipal solid waste is studied from the perspective of the circular economy in order "to close the loop" and minimise greenhouse gases. A central issue concerns the study of Anaerobic digestion process and technologies.

Agenda

DAY1

Anaerobic digestion process and technologies: recap of basics

Case study definition

- Background information
- Waste types, quantity and composition
 - Discussion of the estimates
- Comparison of possible treatment options

DAY 2

Anaerobic Digestion System model

- Mass flow and Energy budget analysis
- Wet, semi dry and dry anaerobic digestion technology
- Sizing and outline of Anaerobic Digestion (AD) plant