ITALIAN NATIONAL AGENCY FOR NEW TECHNOLOGIES, ENERGY AND SUSTAINABLE ECONOMIC DEVELOPMENT

Day 4: **18 June 2026**

Visit of the Italian National Agency for New Technologies, Energy and Sustainable Economic Development_ENEA

Via Anguillarese 301, Rome

Lab activities on Energy, Pollution, Nature-based solutions

Programme

09:00 Arrival at ***ENEA Research center***

09:00-09:30 Registration, and access to the visitors'area - Mimose Meeting Room

09:30-09:45 Welcome to ENEA - **Nicola Ranieri,** *Manager of the ENEA Research center*

09:45-10:00 Welcome to H2V, Hydrogen and new energy vectors laboratory - **Alberto Giaconia,** *Head of the Laboratory*

10:00-10:10 Ecological approach and Nature Based Solutions for evaluating and solving ecosystem contamination - **Anna Barra Caracciolo,** *Head of Research* at IRSA-CNR

10:10-10:30 Introduction to DNA sequencing and bioinformatics analysis - **Ludovica Rolando,** *Researcher at IRSA-CNR*

10:30-10:50 Application of Microbial Electrochemical Technologies (METs) for wastewater treatment and energy recovery - **Antonella Marone,** *Researcher at ENEA*

Practical Activities

The students will divide in two groups. Each group will be involved in all the tasks (30 minutes each)

11:00-13:00 (Building C27) Moving to the Hydrogen and new energy vectors laboratory for the practical activities.

Task 1 (~10 students) **Microbial Ecology Lab** (30 min) + **Microscope Lab** (30 min)

Task 2 (~10 students) **Plant microbiome system in microcosms** (30 min) + **Mycoremediation Lab** (30 min)

13:15-14.30 Lunch time at the canteen and coffee

14:45-15:45 (Building C27) Moving to the Hydrogen and new energy vectors laboratory

Task 3 (~20 students) **Anaerobic Bioprocessing Lab** (45 min) + **Anaerobic Pilot Plant (1m^3)** (15 min)

15:45-16:00 – Conclusion and moving to Rome