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## **WP5: Workshop 2:**

### ***Introduction to techno-economic assessments***

**Date:** Monday, February 26, 2024

**Venue:** Online via MS Teams

### **How to register**

Please register until 22<sup>nd</sup> February 2024 e.o.b. via this [link](#).



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## Workshop preliminary agenda

### 26<sup>th</sup> February 2024

10:00 – 10:45	Session 1: Techno-economic assessment foundations
10:45 – 11:00	Coffee break
11:00 – 12:00	Session 2: Techno-economic assessments in more detail
12:00 – 13:00	Lunch break
13:00 – 14:15	Session 3: Consideration of uncertainties
14:15 – 14:30	Open questions



## Workshop session details

### Session 1: Techno-economic assessment foundations

This first session introduces techno-economic assessments (TEAs) by defining them, explaining their components, purpose, and scope, as well as outlining research questions they are able to answer. More specifically, this session will cover the following contents:

- Motivation, definition, and objectives
- Key components and supplementary analyses
- Effect of uncertainties
- Study formats and research questions

### Session 2: Techno-economic assessments in more detail

After the introductory session, the components of a TEA, namely technical and economic assessments, are outlined in more detail in this session. Moreover, this session deals with aspects concerning TEA workflow and result evaluation. The following contents are covered:

- Technical KPIs
- Cashflow components & economic KPIs
- Efficient workflow design
- Level of detail
- Result evaluation & presentation

### Session 3: Consideration of uncertainties

This session focusses on supplementary analyses to TEAs: Sensitivity analyses explore how variations in key input parameters affect the outcomes of the TEA. They help to identify the most critical factors influencing a project's feasibility and profitability. TEAs may additionally be supplemented by assessing the risks associated with the project. Understanding these risks allows to make more informed decisions. This session will include the following contents:

- Sensitivity analyses through parameter studies
- Risk assessments through Monte Carlo simulations

