**Class plan**

**(detailed)**

Teaching module: **Social Impact of Energy Technologies. S-LCA**  Session: 1. **SLCA introduction** Class time: **2x45min**

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| No. | Activity name | Procedure | Teaching guide | Method | Interaction type | Expected outcome | Materials | Overall time |
| 1. | Introductory presentation  | 1. Introduction
 | Using the presentation, introduce the concept of sustainability assessment. Present why it is important in the energy field and the background.  | * Lecture
 | T <-> Ss | * Understanding the basic concept of SA and being aware of the main tools for SA
 | * TM4-S1-AM1- Introduction
* TM4-S1-AM2
 | 10 min |
| 2. | Presentation on indicators  | 1. Presentation on indicators
2. Discussion of the qualities of a good indicator
3. Presentation on criteria for selecting indicators
 | Introduce the importance of sustainability indicators. Students are made to discuss what are the characteristics of a good indicator.  | * Open discussion
 | T <-> SsS <-> S | * Understanding of social indicators
 | * TM4-S1-AM1- Introduction
* TM4-S1-AM2
 | 10 min |
| 3. | Group work on indicators  | 1. Introduction of the case study
2. Students try to select indicators for the proposed socialthemes
3. Discussion on how to identify proper indicators.
 | Based on case study given to read for homework, group work on brainstorming about indicators used to assess social sustainability. Discuss the strengths and weaknesses regarding the indicators.  | * Open discussion
 | T -> SsSs <-> SsT <-> Ss | * Understanding of indicators
 | * TM4-S1-AM1- Introduction
* TM4-S1-AM2
* TM4-S1-AM3
* TM4-S1-AM4
 | 20 min |
| 4. | Introduction to Life Cycle Assessment | 1. Presentation of LCA
 | With the help of a video, teacher exposes the main principles of LCA | * Lecture
 | T -> Ss | * Being aware of the sustainability assessment tools, in this case LCA
 | * TM4-S1-AM1-Introduction -
* TM4-S1-AM2
* TM4-S1-RM3
 | 10 min |
| 5. | Social Assessment Methods. Social LCA | 1. Presentation of SCLA
 | SLCA is presented as a social version of the LCA and it is framed within the Social Assessment toolbox | * Lecture
 | T -> Ss | * Being aware of the social assessment tools, in this case SLCA
 | * TM4-S1-AM1- Introduction
* TM4-S1-AM2
 | 5 min |
| 6. | SLCA Methodology | 1. Overview
2. The four steps of the SLCA methodology
3. Brief overview of tools and databases
 | Using the presentation, introduce the concept of SLCA, the methodologies, key steps to take during the analysis, indicators, tools and databases.  | * Lecture
 | T -> Ss | * Understanding of the SLCA methodology and its features
 | * TM4-S1-AM1-Introduction -
* TM4-S1-AM2
 | 15 min |
| 7. | SLCA case studies in the energy field | 1. Examples of SLCA performed in the energy field
2. Focus on one study case
 | Teacher provides some examples of the application of SLCA to energy cases. One of these cases is used to exemplify the usefulness of the approach. | * Lecture
 | T -> Ss | * Exemplifying the usefulness of SLCA through a case study
 | * TM4-S1-AM1-Introduction -
* TM4-S1-AM2
 | 10 min |
| 8. | Instructions for session 2 | 1. T gives homework to Ss to prepare presentation for next class and explains tasks.
2. T divides Ss into groups
 | Teacher presents the case study and explains the homework for next class, provides materials. Ss are divided into groups. The group will prepare presentation before the next session.  | * Presentation for next session group work and homework
 | T -> SsSs <-> Ss | * Understanding of the tasks for the next session
 | * TM4-S1-AM1-Introduction -
* TM4-S1-AM2
* TM4-S1-RM4
 | 10 min |

Interaction type:

**T** – teacher

**S** – student

**Ss** – students

**->** - one way

**<->** - two way