**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 <-> Ss  S <-> 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 -> Ss  Ss <-> Ss  T <-> 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 -> Ss  Ss <-> 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