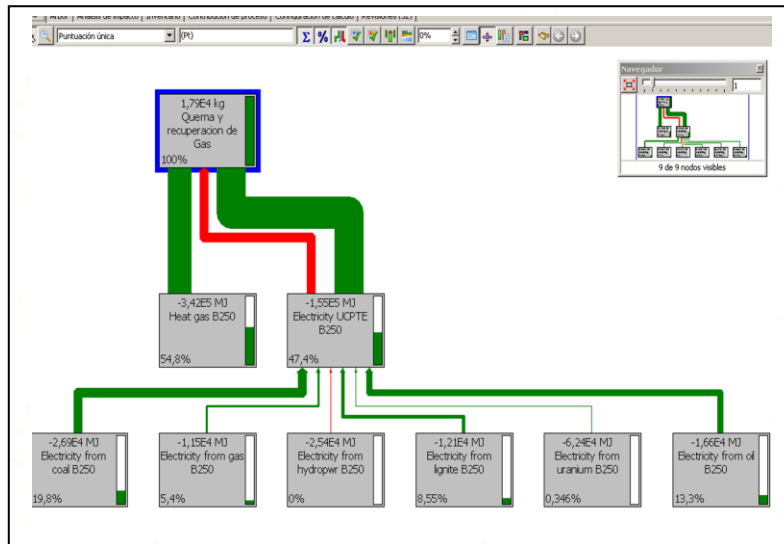*Field: Agri-business*

Life cycle assessment for a sustainable agriculture

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Test

1. What steps must follow a company for the implementation of an EMS?

    a. 1. Legal requirement- 2. Environmental Management Systems-3. LCA-4.Eco-efficiency.

    b. 1.Eco-efficiency-2.Legal requirement- 3.Environmental Management Systems-4.LCA-

    c. 1. LCA-2.Legal requirement- 3.Environmental Management Systems-.

2. Which are the phases of the LCA?:

    a. 1. Interpretation-2. Impact analysis-3. Purpose and scope-4. Inventory analysis.

    b. 1. Purpose and scope- 2. Inventory analysis- 3. Impact analysis- 4. Interpretation

    c. 1. Impact analysis-2. Purpose and scope-3. Inventory analysis. 4. Interpretation-

3. How many types of functional units exist?:

    a. Two types: organic and inorganic.

    b. Two types: Physical and functional type.

    c. Tree types: Physical, chemical and functional type.

4. In the purpose and scope phase:

    a. The definition of the system limits is not important.

    b. The objective indicates the limits of the evaluation.

    c. The objective should indicate unambiguously the intended application, the reasons for carrying out the study and the intended recipient.

5. Select the correct affirmation:

    a. All information used during the inventory phase will be related to the functional unit.

    b. The functional unit sets the quality of product to be used.

    c. The evaluation is not performed on the basis of unit of measure defined in each case.

6. Select the correct affirmation:

a. The quality of the data is not only a value in itself, but its readiness and ease of checking,

b. The subsequent final outcome of the LCA will be affected by the quality of the data.

c. A and b are correct.

7. The data is better that:

a. It was collected from databases.

b. It was collected experimentally in situ.

c. It was collected from the net.

8. The inventory analysis phase:

a. Define the product improvement recommendations.

b. Relates the causes: environmental burdens (represented by the inputs and outputs of the system) and the effects on the environment: environmental impacts.

c. Comprises obtaining the data and calculation procedures to identify and quantify all adverse environmental effects associated with the functional unit.

9. The phase of interpretation:

a. Define the product improvement recommendations.

b. Relates the causes: environmental burdens (represented by the inputs and outputs of the system) and the effects on the environment: environmental impacts.

c. Comprises obtaining the data and calculation procedures to identify and quantify all adverse environmental effects associated with the functional unit.

10. The phase of impact analysis:

a. Define the product improvement recommendations.

b. Relates the causes: environmental burdens (represented by the inputs and outputs of the system) and the effects on the environment: environmental impacts.

c. Comprises obtaining the data and calculation procedures to identify and quantify all adverse environmental effects associated with the functional unit.

11. The impact analysis involve:

    a. The data collection.

    b. The data processing.

    c. The sub-phases of: classification, characterization, standardization and assessment.

12. Select the correct affirmation:

    a. In the classification sub-phase, the environmental loads of the system are assigned to the different impact categories according to the type of expected environmental effect

    b. In order to obtain environmental indicators, it wont be necessary to apply models to impact categories

    c. The impact categories are the same in all the method.

13. Which is not an impact category?:

    a. Global warming

    b. Depletion of resources.

    c. Rubbish produced.

14. Relating to characterization:

    a. Global warning includes CO_2, CH_4 and N_2O.

    b. Global warning includes CO_2, SO_2 and HCL.

    c. Global warning includes CO_2, NH_3 and HF.

15. The characterization factors for Global warning:

    a. Is 1 for CO_2, 35 for CH_4 and 260 for N_2O.

    b. Is the same for CO_2, CH_4 and N_2O.

    c. Not take account the values of CO_2, CH_4 and N_2O

Note: The correct answers are in red.