

Soil Power

A. Main topics

- microbial energy
- electrochemistry
- waste management

B. Targeted audience

15-18 years old students

C. Key concepts

- Electricity from soil □ Exoelectronic bacteria
- Microbiology / Electrochemistry
- Electrogalvanization



D. Experimental activity Assembly of several , microbial fuel cells for electricity production testing several carbohydrate rich nutrients.

E. Toolkit material

- Protocol with the description of the experiments
- Pedagogical dossier with explications, pictures, etc. that can be used by the teacher
- Multimedia tools (videos with processes that use the concepts seen during the experimentation)

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