



# CERESiS

Contaminated land Remediation  
through Energy crops  
for Soil improvement  
to liquid biofuel Strategies

<https://ceresis.eu>

## 4 use cases

CERESiS DSS will be implemented  
in 4 real-scale projects in **Ukraine, Italy, UK**  
and **Brazil**.

## Context

Land decontamination  
through phytoremediation,  
i.e. growing energy crops to  
produce clean biofuels.

## Objectives

- Demonstrate the suitability and effectiveness of various conventional and novel species of energy crops for phytoremediation purposes in contaminated land, against a variety of the most common contaminants globally.
- Demonstrate the potential of two novel thermochemical processes, i.e. Supercritical Water Gasification (SCWG) and Fast Pyrolysis (FP), for the production of biofuels and key biofuel precursors suitable for further upgrading, from contaminated biomass.
- Provide decision support to stakeholders and policy makers in order to achieve optimal win-win solutions for site-specific land decontamination through phytoremediation while simultaneously producing clean liquid biofuels.

## Output

CERESiS aims to influence policy makers and stakeholders with recommendations on how to support the incorporation of phytoremediation in biofuel production value chains. To this end, the project will develop a Decision Support System (DSS) and test it in 4 use cases (UA, IT, UK, BR). The DSS can be further exploited outside the scope of the project and propose optimal pathways (i.e. best choice of energy crops, most appropriate cultivation and harvesting methods, conversion and separation technologies and supply chain design) for each individual case of site, area, region or country.



This project has received  
funding from the European  
Union's Horizon 2020  
research and innovation  
programme under grant  
agreement No 101006717



**12**  
partners



**8**  
countries



**4**  
use-cases



**3,564,700**  
EU Funding



**11/2020**  
start



**4/2024**  
end