

**Coordinador:**  
**Universidad Politécnica de Madrid (UPM)**

Technical and environmental  
analysis of advanced strategies for  
the energy valorisation of biomass  
(ENV-BIO)

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# CONTACT DETAILS AND LINKS



## UNIVERSIDAD POLITÉCNICA DE MADRID (UPM)

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### LINKS:

Universidad Politécnica de Madrid (UPM): [www.upm.es](http://www.upm.es)

School of Industrial Engineering (ETSI Industrial): [www.etsii.upm.es](http://www.etsii.upm.es)

Department Energy Engineering: [www.etsii.upm.es/organizacion/departamentos/dief.es.htm](http://www.etsii.upm.es/organizacion/departamentos/dief.es.htm)

- AREAS OF EXPERTISE.
  - Energy transformation of biomass: gasification, combustion and pyrolysis of lignocellulosic biomass.
  - Environmental, economic and thermodynamic analysis of energy processes.
- KEY FACILITIES:
  - Laboratory scale reactors (rotary, two stage fluidized bed) for thermochemical transformation of biomass.
  - Biomass pre-treatment and characterization laboratory.
  - SimaPro 7.3 software for Life Cycle analysis.
  - EBSILON®Professional for thermodynamic analysis.

- UPM is acting as:
  - Coordinator of the ENV-BIO IRSES Project.
  - Leader of WP1: Level 1 – Advanced Thermochemical Processes
  - Responsible for Deliverables/Milestones:
    - D1.2: Milestone 2: Report: comparative analysis of biomass gasification processes and plants
    - D4.1: Milestone 10: Report: technical progress on project objectives and refining of future actions, as concluded from meeting 1 (month 24).
    - D4.2: Milestone 11: Report: technical progress on project objectives, as concluded from meeting 2 (month 48).
    - D4.3: Milestone 12: Report: assessment of commercial opportunities, analysis of future collaborations and implementation of strategic alliances.

## YEAR 2013:

- Visiting: UTFSM (Chile).
  - Dates: July, August, September: 2013.
  - Activities: analysis of biomass resources in Chile for use in combustion processes for energy generation: environmental and technical considerations.
  - Associated with WP, Objectives, Tasks, Deliverables.
    - WP2: Objective: 2.2 Task: 2.2 Deliverable/Milestone: D2.1.
  
- Hosting: UTFSM (Chile).
  - Dates: September, October, November: 2013.
  - Activities: optimizing the gasification and pyrolysis of avocado stones.
  - Associated with WP, Objectives, Tasks, Deliverable/Milestones
    - WP1: Objective: 1.3 Task: 1.3 Deliverable/Milestone: D1.3.



# SECONDMENTS: 2013 and 2014



- YEAR 2014:
  - Visiting: host, dates and activities.
  - Hosting: visitor, dates and activities.

*THANK YOU FOR YOUR ATTENTION*



env-Bio  
IRSES 13|16  
Marie Curie  
Actions + (FP7)