



Universidad de Valladolid

Horizon2020 Information Days on Public-Private Partnerships

Brokerage event
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“FASTSUGAR COFFE”: energy and resource management system
for improved efficiency in soluble coffee process industries

Scientific Contact:

Name: *María José Cocero*

Email mjcocero@iq.uva.es

<http://hpp.uva.es/>

Management Contact:

Name: *María Moncada*

Email: mmoncadas@funge.uva.es

Universidad de Valladolid (SP)



Universidad de Valladolid

The University of Valladolid (UVA) is one of the oldest universities in Europe. Currently offers more than 100 degrees, 80 doctoral programs (14 of them with Mention of Excellence) and 68 graduate degrees.

The UVA has 430 km² for researching activities distributed in our 4 campuses (Valladolid, Palencia, Soria and Segovia). We have a landmark Lab-building called LUCIA. It has nearly 25,000 students each year, about 3,000 researchers. Our target researching is Agro food, sustainable industrial Process, bioprocess, bioproducts, biowaste, energy and environment.

Main areas of expertise as UVA:

There are an expertise research group “High Pressure Process” at the Engineering School. **They are focus on improving of process with an energy integration and sustainable concepts of the re-design.**

UVA: New ways of working together inside and outside (Industry)



“FASTSUGAR COFFEE”:

Main idea:

Integrate the residue of soluble coffee in the manufacturing process to improve energy efficiency and reduce the use of water in the industrial process.

SUGARS & PLATFORM CHEMICALS FROM BIOMASS

Using ultra fast hydrolysis under supercritical water conditions a very selective cleavage of the biomass polymers can be achieved. Glucose, glyceraldehyde, pentoses and hexoses can be produced in continuous in a very energy efficient process. Heat integration of the process allows for an interesting OPEX.

Call topic addressed: H2020-SIPRE-6-2015
“Energy and resource management systems for improved efficiency in the process industries”

“FASTSUGAR COFFEE” is based on one technology of University of Valladolid: FASTSUGARS TECHNOLOGY. **It is a biomass hydrolysis process carried out at supercritical water that it is able to transform biomass in soluble sugars in extremely short residence times.**

Key words: byproducts, efficiency energy, sustainable process, marron, coffee, hydrolysis, supercritical water, integration energy,

CORE GROUP



Universidad de Valladolid

We are:

- Experts in processes and products development.
- Improving product quality.
- Heat recovery and heat integration.
- Waste valorization producing sugars by SCWater hydrolysis

Offer our technology:

→ *“FASTSUGARS process” TRL 5.*

We are participation on several EU Programs, Collaborative Projects and we are Coordinator in some of them.



LOOKING FOR PARTNERS

The profile of the partners we are looking for and their envisioned role:



- Coffee expert partners to renew conventional soluble coffee processes by implementing waste valorization & energy recovery.
- End User of the coffee market
- Type of entities: SMEs, enterprises, associations, ...



CONTACT DETAILS

“FastSugar coffe”: energy and resource management system for improved efficiency in soluble coffee process industries

Scientific Contact:

UNIVERSIDAD DE VALLADOLID
ESCUELA INGENIEROS INDUSTRIALES-
Sede Paseo del Cauce
Chemical Engineering Department
Name: Dr. María José Cocero
Email mjcocero@iq.uva.es
<http://hpp.uva.es/>

Management Contact:

EUROPEAN PROJECT OFFICE
FUNDACIÓN GENERAL UNIVERSIDAD
VALLADOLID
Mrs. María Moncada
Project Manager
Email: mmoncadas@funge.uva.es
[Linked-in: es.linkedin.com/pub/maria-moncada/22/57a/aaa/](https://www.linkedin.com/pub/maria-moncada/22/57a/aaa/)

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