



Industrial Engineering School



Universidad de Valladolid

BIP Energy

Towards a Sustainable Energy System.

Challenges and Opportunities.

June-July 2024

The **main objectives** of this BIP are to raise awareness of the importance of **energy sustainability** and of the alignment with with **SDG – ONU** and **European Union policies** and to raise discussion about **technological and social challenges**



Universidad de Valladolid

The University of Valladolid is a public university with a long tradition going back almost 800 years, making it one of the oldest universities in the world.

It is located in four of the provinces of the region of Castile y León: Palencia, Segovia, Soria and Valladolid. A region with a rich cultural and natural heritage and one of the largest regions in Europe.

The University of Valladolid has 24 Faculties where more than 70 Degrees, 64 Masters, 16 joint study programs, double international degrees and 29 Doctorate Programs are taught. Every year, more than 22,000 students study at the University of Valladolid, and among them, some 1,500 are international students.

Head Office:

**C/Plaza de Santa Cruz, 8,
47002 Valladolid Spain**

SGroup
BIP on
Energy

June 2024



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Virtual Sessions

(provisional programme)

3rd of June, 2024

Track: Biomass and hydrogen

3rd of June, 3.00 pm – 4.00 pm

Topic: Biomass in eco-efficient cooking processes for contributing to the sustainable development in isolated zones from developing countries: Colombia as a study case

Presenter: Juan Fernando Pérez Bayer, Universidad de Antioquia, Medellín-Colombia

Session Chair: TBA

3rd of June, 2024

Track: *Energy and building*

4.00 pm – 5.00 pm

Topic: The link of the timed city concept to sustainable mobility

Presenter: Prof. Therese Bajada, University of Malta, Malta

Session Chair: TBA

6th June, 2024

Track: Biomass and hydrogen

6th of June, 3.00 pm – 4.00 pm

Topic: Hydrogene as an energy carrier

Presenter: Dr. Nadjiba SOPHY-MAHFOUDI, ISAT, Nevers-France

Session Chair: TBA

Provisional, June, 2024

Track: *Energy and building*

4.00 pm – 5.00 pm

Topic: Offshore Renewables for Decarbonisation: A Central Mediterranean Island's Perspective

Presenter: Dr. Robert N. Farrugia, Unviersity of Malta, Malta

Session Chair: TBA

The times of the virtual sessions are referenced to the CEST (Central European Summer Time) time zone. The links to the virtual meetings will be published well in advance.

Virtual Sessions

(provisional programme)

13th of June, 2024

Track: Renewable energies

3.00 pm – 4.00 pm

Topic: Offshore Wind: introduction and the importance of the Operational phase

Presenter: Mario Marinero, ESB

Session Chair: TBA

13th of June, 2024

Track: *Energy and building*

4.00 pm – 5.00 pm

Topic: Energy Performance of Buildings Towards Full Decarbonisation by 2050.

Presenter: Prof. Ing. Charles Yousif, University of Malta, Malta

Session Chair: TBA

The times of the virtual sessions are referenced to the CEST (Central European Summer Time) time zone. The links to the virtual meetings will be published well in advance.

Monday, 15 July 2024

Salón de Actos IndUVa. E. de Ingenierías Industriales - Sede Doctor

Mergelina Paseo Prado de la Magdalena 3-5, 47011

8:00 am - 8:30 am

Registration of Participants

8:30 am – 9:00 am

BIP Presentation

TOPIC: HYDROGEN and ENERGY STORAGE

9:00 am – 10:00 am

ACADEMIC SESSION 1

Title: Hydrogen

Presenter: **Francisco V. Tinaut** (Universidad
Politécnica de Valencia, Spain)

10:00 am – 11:00 am

ACADEMIC SESSION 2

Title: Hydrogen as an alternative fuel in transportation

Presenter: **D. Antonio González García-Conde**
(Vice-President, AEH2) *(To be confirmed)*

11:00 am – 11:30 am

Coffee Break (Offered by UVa)

11:30 am – 12:30 am

ACADEMIC SESSION 3

Title: Energy Storage

Presenter: **Hannes Laget** (Katchai, Belgium)

12:30 am – 1:30 pm

ACADEMIC SESSION 4

Title: Solar energy

Presenter: **Julián Pérez** (Universidad de Valladolid)

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(provisional programme)

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Monday, 15 July 2024

**Salón de Actos IndUVa. E. de Ingenierías Industriales - Sede Doctor
Mergelina Paseo Prado de la Magdalena 3-5, 47011**

7:00 pm – 9:00 pm

SOCIAL ACTIVITY (Offered by UVa)

Guided tour around Valladolid.

Meeting point: Plaza Mayor Statue

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Tuesday, 16 July 2024

Salón de Actos IndUVa. E. de Ingenierías Industriales - Sede Doctor

Mergelina Paseo Prado de la Magdalena 3-5, 47011

TOPIC: ENERGY and BUILDING

9:00 am – 10:00 am

ACADEMIC SESSION 5

Title: Zero emission buildings, ZEB, healthy and smart in sustainable cities

Presenter: **Francisco Javier Rey**

(Universidad de Valladolid, Spain)

10:00 am – 11:00 am

ACADEMIC SESSION 6

Title: Use of desiccant systems for temperature and humidity control

Presenter: **Juan Prieto**(University of Málaga)

11:00 am – 11:30 am

Coffee Break (Offered by UVa)

11:30 am – 12:30 am

ACADEMIC SESSION 7

Title: Integration of hydrogen technologies in buildings

Presenter: **Antonio Atienza** (University of Málaga)

12:30 am – 1:30 pm

ACADEMIC SESSION 8

Title: Energy and Buildings

Presenter: **Hannes Laget** (Katchai, Belgium)

1:30 pm – 2:30 pm

Lunch (Offered by UVa)

2:30 pm – 5:00pm

GROUP 1: Study visit to NZEB LUCIA and INDUVa

GROUP 2: Project Preparation

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Wednesday, 17 July 2024

**E. de Ingenierías Industriales - Sede Doctor Mergelina Paseo Prado
de la Magdalena 3-5, 47011**

TOPIC: RENEWAL ENERGIES

9:00 am **Departure by BUS from IndUVa to Fundación CIDAUT**

- Visit Hydrogen intallations

9:30 am – 11:00 am

ACADEMIC SESSION 9

Title: Production, storage and transportation of Hydrogen

Presenter: **Henar Olmedo**

Fundación CIDAUT, Spain

11:00 am – 12:30 pm

Visit Fundación CIDAUT

12:30 pm

Departure to Menade Vineyard – La Seca

- Visit to traditional caves and wine tasting

14:00 pm

Departure to Menade Vineyard – Rueda

Lunch and Wine Tasting

(Offered by UVa at Menade Vineyard)

18:00 pm

Return to Valladolid

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Thursday, 18 July 2024

Salón de Actos IndUVa. E. de Ingenierías Industriales - Sede Doctor

Mergelina Paseo Prado de la Magdalena 3-5, 47011

TOPIC: NEW TRENDS on ENERGY

9:00 am– 10:00 am

ACADEMIC SESSION 10

Title: Electric Energy with solar thermal plants

Presenter: **Hannes Laget** (Katchai, Belgium)

10:00 am – 11:00 am

ACADEMIC SESSION 11

Title: TBA

Presenter: **José Guillermo Rosas Mayoral**
(Universidad de León, Spain)

11:00 am – 11:30 am

Coffee Break (Offered by UVa)

11:30 am – 12:30 am

ACADEMIC SESSION 12

Title: Geothermal Energy for power production

Presenter: **César Chamorro**

(Universidad de Valladolid, Spain)

12:30 am – 1:30 pm

ACADEMIC SESSION 13

Title: Electric Vehicle Integration into modern power plants

Presenter: **Hannes Laget** (Katchai, Belgium)

1:30 pm – 2:30 pm

Lunch (Offered by UVa)

2:30 pm – 5:00 pm

GROUP 1: Project Preparation

GROUP 2: Study visit to NZEB LUCIA and INDUVa

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Friday, 19 July 2024

Salón de Actos IndUVa. E. de Ingenierías Industriales - Sede Doctor

Mergelina Paseo Prado de la Magdalena 3-5, 47011

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00 am– 10:00 am | CLOSING PRESENTATION <i>Title: Roadmaps to Net Zero: Energy Scenarios for a Decarbonized Future</i> Presenter: César Chamorro (Universidad de Valladolid, Spain) |
| 10:00 am – 12:00 am | Projects Presentation |
| 12:00 am – 1:00 pm | Visit to the Palace of Santa Cruz |
| 1:00 pm – 1:30 pm | Award of diplomas |
| 1:30 pm – 2:30 pm | Farewell lunch at the Palace of Santa Cruz gardens (Offered by UVa) |

02

The city of Valladolid

The **largest city in the north-west of Spain, Valladolid** has twice enjoyed the status of the country's capital, under King Charles I in the 16th century and again from 1601 to 1606 under King Phillip III.

It is now the **unofficial capital** of the autonomous community of **Castile and León** and has a population of **just over 300,000**.

Situated on the Pisuerga River, historical gems in the center include the unfinished, **Renaissance-style Cathedral** and the **diocesan museum**, with its carved images attributed to **Gregorio Fernández**.

There is also the **Church of San Pablo** and the **College of San Gregorio**, now the site of **Spain's National Sculpture Museum**, and the Gothic-style **Church of Santiago**.

The **Plaza Mayor** is in the heart of the city and includes the **Town Hall**, an imposing clock tower and an impressive **statue of 11th-century Count Ansúrez**, the city's founding father.

A **university town, Valladolid** cultural events include an international film festival in **October**, the famous **Seminici**, and an international street theatre and arts festival, the **TAC**, in **May**.





- 1 Rectorate of the University of Valladolid
- 2 Plaza Mayor (Main Square)
- 3 Congress Center "Conde Ansúrez"
- 4 Faculty of Law
- 5 Cathedral
- 6 Church of San Pablo
- 7 Patio Herreriano Museum
- 8 Church of Santiago
- 9 Valladolid Train Station – Campo Grande Adif

03

Arriving by
plane at
Valladolid.

From
Madrid to
Valladolid
by bus.

The best way to get to **Valladolid** from abroad is **by plane** via the **Adolfo Suárez Madrid-Barajas Airport (Madrid)**.

There is a **bus line** that connects **Barajas Airport Terminal 4 (T4) to Valladolid** operated by the company **ALSA**.

You may access the coach times and purchase your tickets at <https://www.alsa.es/estaciones/estacion-valladolid>.

03

From Madrid to Valladolid by train.

Alternatively, you can take a train from **Chamartín Train Station (Madrid)** to **Valladolid**.

First you must take the **local train “Cercanías” C1 line** from the **Adolfo Suárez Madrid-Barajas Airport** to **Chamartín Train Station**. The **train station** for the **C1 line** is on the **terminal T4 floor -1**, and is called **Aeropuerto T4**. If you arrive in a different terminal you can move to Terminal 4 in a free shuttle bus service connecting the terminals.

Once you get to **Chamartín Train Station**, you can purchase **your train ticket to Valladolid** at the **Renfe ticket windows** or in **the machines**. We recommend you book and buy your ticket over the Internet on

<https://www.renfe.com/es/es?cid=generica&c=sem.&fuente=google&campana=generica&fecha=2022>

04

University Residence “Reyes Católicos”

Participants may seek for accommodation at the University Residence “Reyes Católicos”, located in the city centre.



Address:

C/ Teresa Gil 13;
47011, Valladolid
(España)

(+34) 983 423 543

<https://reyescatolicos.uva.es/>

Booking at:

<https://reyescatolicos.uva.es/reserva/>

04

Hotels

You are free to book the hotel of your choice in Valladolid, here are a few suggestions



The Book Factory Hostel

Address:

C/ Paraíso 8; 47003,
Valladolid (España)

(+34) 983 181 102

<https://www.thebookfactoryhostel.com/>

04

Hotels



Hostal Los Arces

Address:

C/ San Antonio de Padua 2; 47003, Valladolid (España)

(+34) 983 353 853

<http://www.hostallosarces.com/>

04

Hotels



Hotel Astorga

Address:

C/ Ferrocarril 1;
47004, Valladolid
(España)

(+34) 983 202 754

<https://www.hotelastorga.com/>

info@hotelastorga.com

04

Hotels



Hotel Catedral

Address:

C/ Núñez de Arce 11;
47002, Valladolid
(España)

(+34) 983 298 811

http://www.hotelboutiquecatedralvalladolid.com/index_es.htm

04

Hotels



Hotel Atrio

Address:

C/ Núñez de Arce 5;
47002, Valladolid
(España)

(+34) 983 150 050

<https://www.booking.com/hotel/es/hotelatriovalladolid.es.html>

04

Hotels



Hotel Olid

Address:

Plaza San Miguel 10;
47003, Valladolid
(España)

(+34) 983 357 200

<https://www.hotelolid.com/el-hotel/>

04

Hotels



Hotel Roma

Address:

C/ de los Héroes de
Alcántara 8; 47001,
Valladolid (España)

(+34) 983 354 666

[http://www.hotelromav
alladolid.com/](http://www.hotelromavalladolid.com/)

06

Useful info

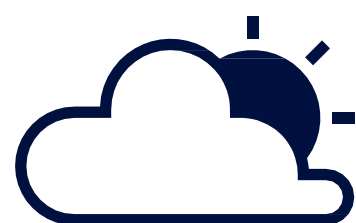
The event venue (10 minutes walk).

07

Weather

17.07

Wednesday



34°/16°

18.07

Thursday



35°/18°

19.07

Friday



34°/17°

The climate in July varies considerably from region to region, influenced by latitude and proximity to the ocean, which offers hot summers.

Average temperature in July is of 30°C, during the day. At night, the average low can reach 22°C.

The average high remains steady at 28°C on warmer days. The humidity is 38,8%.

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Information and Contacts

TIME

Between late October and late March, the local time in Valladolid is CET (UTC+1h)

Between late March and late October, the local time in Valladolid is CEST (UTC+2h)

CURRENCY AND BANKING

The currency in Spain is the Euro

EUROPEAN EMERGENCY NUMBER

112

LOCAL VALLADOLID POLICE

(+34) 983 426 150
Emergencies 092

TOURISM OFFICE

C/ Acera de Recoletos s/n
47004 Valladolid
informacion@valladolidturismo.com
(+34) 983 219 310

See you soon in Valladolid!

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