

ENERGY STORAGE PROGRAM TWO-DAY, IN-PERSON TRAINING

ENERGY STORAGE SYSTEMS: FUNDAMENTALS, APPLICATIONS, PLANNING, AND IMPLEMENTATION

LOGISTICS NOTE

Genk, Belgium | November 3-4, 2025

CONTEXT

As part of ESMAP's ESP Storage Academy, the training program aims to provide a comprehensive understanding of energy storage technologies and their role in modern power systems. The training is designed to equip participants with technical knowledge and insights needed to assess, plan, design, and implement energy storage projects effectively.

The program will be delivered in-person through a combination of presentations and interactive discussions led by reputed technical experts and guest speakers. Participants will have the opportunity to engage with real-world case studies, gain insights into emerging technologies, and explore the evolving landscape of energy storage.

The training is open to WBG staff and country clients from ESP Partners. It will take place on November 3-4, 2025 in Genk, Belgium. Participants will have an opportunity to participate in the annual Energy Storage Stakeholders Forum taking place on November 5, and in site visits on November 6 and 7, 2025.

The program covers key topics including energy storage applications, technology comparisons, system design, and integration with renewables, in addition to providing an in-depth overview of various phases for planning and implementation of energy storage projects. It also explores market trends, economic and financial considerations, as well as policies and regulations enabling its deployment.

[**REGISTER HERE**](#)



PRELIMINARY AGENDA

DAY 1 | ESP TRAINING

MONDAY, NOVEMBER 3, 2025

LOCATION | Thor Central, André Dumontlaan 67, 3600 | Genk
Belgium

8:15 – 9am	REGISTRATION AND WELCOME COFFEE
9 – 9:15am	OPENING REMARKS
9:15 - 10:30am	Session 1: Introduction to Energy Storage Systems: Role in Power Systems, Use Cases, and Technologies (<i>Maria de Laiglesia</i>)
10:30 - 11am	COFFEE BREAK
11am - 12:15pm	Session 2: Energy Storage Technical Features: Parameters, System Topology, Components, Engineering, and Safety (<i>Maria de Laiglesia</i>)
12:15 - 1:30pm	LUNCH
1:30 - 2:30pm	Session 3: Hybridizing BESS (<i>Maria de Laiglesia</i>)
2:30 – 3pm	COFFEE BREAK
3 - 4:30pm	Session 4: Economic and Financial Analysis of BESS and Hybrid Projects (<i>Michael Burkart</i>)
4:30 - 5:30pm	Session 5: Peer to Peer Exchange (1) (<i>Jimmy Pannett</i>)
5:30 - 5:45pm	Bus leaves for M Hotel
6 – 8pm	COCKTAIL @ M Hotel

DAY 2 | ESP TRAINING

TUESDAY, NOVEMBER 4, 2025

**LOCATION | Thor Central, André Dumontlaan 67, 3600 | Genk
Belgium**

8:30 - 9am	Welcome Coffee
9 - 9:30am	Reflections on Day 1
9:30- 10:30am	Session 6: Energy Storage Technology Trend, Economics, Business Models, and Investments. (<i>James Bragg</i>)
10:30 - 11am	COFFEE BREAK
11am- 12:30pm	Session 7: Planning and Implementing Energy Storage Projects: From Conceptualization, Design, to Planning, Commissioning, Operation, and End-of-life. (<i>Maria de Laiglesia and Kimberley Dewhirst</i>)
12:30 - 1:30pm	LUNCH
1:30 - 2:30pm	Session 8: Operations, Dispatching, and System Integration. (<i>Maria de Laiglesia</i>)
2:30 - 3:30pm	Session 9: Long Duration Storage Technologies: State of Play and Outlook. (<i>Lukas Karapin-Springorum</i>)
3:30 - 4pm	COFFEE BREAK
4 - 5pm	Session 10: Peer to Peer Exchange (2) (<i>Jimmy Pannett</i>)
5 - 5:30pm	CLOSING AND FEEDBACK

DAY 3

AGENDA

**ESP STAKEHOLDERS
FORUM**

NOVEMBER 5, 2025

LOCATION | Thor Central

André Dumontlaan 67, 3600 Genk Belgium

**INSIDE COMPOUND WHERE ENERGYVILLE IS
LOCATED**

**BUSES WILL LEAVE FROM TWO HOTELS TO TAKE
YOU TO THE TRAINING, TO THE STAKEHOLDERS
MEETING DAILY AT 7:50AM OUTSIDE OF CARBON
HOTEL. TRANSPORTATION IS ALSO PROVIDE TO
COCKTAILS, TO THE SITE VISITS, AND BACK TO
YOUR HOTEL DAILY**

DAY 3 | STAKEHOLDERS FORUM

WEDNESDAY, NOVEMBER 5, 2025

LOCATION | Thor Central - André Dumontlaan 67, 3600 Genk Belgium

8:30 – 9am	REGISTRATION AND WELCOME COFFEE
9 - 9:30am	INTRODUCTORY REMARKS BY CO-HOSTS • Demetrios Papathanasiou, Global Director, World Bank • Leen Govaerts, President, BERA • Chandrasekar Govindarajulu, ESMAP Practice Manager, World Bank - Overview of ESP activities in the past year and future outlook.
9:30-10:45am	ENERGY STORAGE POLICIES AND REGULATIONS – LATEST DEVELOPMENT AND REMAINING CHALLENGES Moderator: Xiaoping Wang, Lead Energy Specialist, ESMAP/World Bank • Chen Bichao, Director, Chinese National Development and Reform Commission (NDRC) • Ms. Dong Heyun, Senior Engineer, Tsinghua University • Theodore (Ted) Ko, Executive Director, Energy Policy Design Institute • Luca lo Schiavo, Senior Regulatory Specialist, Energy Regulators Regional Association (ERRA) • Gent Hajdari, Regulatory Specialist, Optima Energy Consulting • Francis Saturnino C. Juan, Chairperson, Energy Regulatory Commission of the Philippines
10:45 - 11:15am	COFFEE BREAK
11:15 - 12:30pm	WORLD BANK CLIENT SESSION – OPPORTUNITIES AND CHALLENGES OF IMPLEMENTING ENERGY STORAGE PROJECTS Fire side chat with Zanzibar project participants (Task Team Leads & Clients) and RESPITE project Moderator: Satyaki Bhattacharya, Energy Specialist, ESMAP/World Bank • Maulid Shiraz, Project Manager, ZECO • Jaimin Modi, Project Manager, Intec GOPA • Rhonda Jordan Antoine, Sr. Energy Specialist and ZESTA Task Team Lead, World Bank • Fowzia Hassan, Sr. Operations Officer and ZESTA Co-Task Team Lead, World Bank • Theophilus Amara, Deputy Project Coordinator for the RESPITE project, Sierra Leone
12:30 - 1:30pm	LUNCH
1:30 - 2:45pm	LATEST DEVELOPMENTS OF ENERGY STORAGE TECHNOLOGIES IN BELGIUM Moderator: Carlo Mol, EnergyVille/BERA • Bozorg Khanbaei, Executive Director BEPA, Batteries European Partnership Association, “EU Investments in Battery Research & Innovation under Batt4EU partnership” • Jeroen Büscher, Research Line Coordinator Batteries, EnergyVille/BERA, “Tackling Challenges for Sustainable Adoption of High-Performant and Safe Battery Solutions” • Jacob Bossaer, CEO, BOSAQ, “Energy Storage as Enabler for Circular Water Use”
2:45 - 3:15pm	COFFEE BREAK
3:15 - 4:30pm	SPOTLIGHTS OF PROGRAMS BY OTHER FINANCIAL INSTITUTIONS AND FOUNDATIONS Discussion on energy storage projects and their implementation Moderator: Jimmy Pannett, Energy Specialist, ESMAP/World Bank • Peter Mockel, Principal Industry Specialist, International Finance Corporation (IFC) • Antony Karembu, Principal Renewable Energy Specialist, African Development Bank (AfDB) • Umang Maheshwari, Managing Director, BESS, Global Energy Alliance for People and Planet (GEAPP) • Daniel Morris, Lead, Clean Energy, Climate Investment Fund (CIF)

DAY 3 | STAKEHOLDERS FORUM

WEDNESDAY, NOVEMBER 5, 2025 - *CONTINUED*

LOCATION | Thor Central - André Dumontlaan 67, 3600 Genk Belgium

4:30 - 4:40pm	GBA BATTERY BENCHMARK: A TOOL FOR DRIVING SUSTAINABLE BATTERY ENERGY STORAGE INVESTMENT • Kaisa Toroskainen, Senior Manager, Global Battery Alliance
4:40 - 5:15pm	STAKEHOLDER FEEDBACK SESSION <i>Moderators: Juliet Pumpuni, Sr. Energy Specialist and Tarek Keskes, Energy Specialist, ESMAP/World Bank</i>
5:15 - 5:45pm	KEYNOTE SPEECH: WIM DRIES, MAYOR OF CITY OF GENK • Genk’s transformation from a mining city into a clean energy hub.
5:45 -6pm	CLOSING REMARKS • Chandrasekar Govindarajalu, ESMAP Practice Manager, World Bank • Leen Govaerts, President, BERA
6 – 8pm	ESP STAKEHOLDER FORUM RECEPTION – THOR CENTRAL

SITE VISIT | 10am - 6pm

About the site visit: Port of Antwerp-Bruges | Start at “t Kerkschip,” which is Houtdok 25 / Haven 25A - 2030 ANTWERPEN

At the Port of Antwerp-Bruges, participants will experience one of the world’s most forward-looking ports and a driving force in Europe’s clean energy transition. The visit begins at the iconic Harbour House—an architectural masterpiece symbolizing innovation—where presentations will highlight the port’s strategic role in hydrogen, energy storage, and circular economy initiatives.

The group will then embark on a guided tour through the harbour, with visits to key sites showcasing cutting-edge hydrogen projects and sustainable logistics solutions. This tour will provide valuable insight into how the port is evolving into a major energy hub, fostering collaboration, innovation, and decarbonization across the global value chain.

PRELIMINARY SCHEDULE

- **HOTEL PICK UPS WILL BE AT 8:00AM**
- **AFTERNOON DROP OFFS FROM SITE VISIT TO HOTELS BEGIN AT 6:30PM.**

ANTWERP



SITE VISIT | 9:30am - 2pm

About the site visit: Thor Park

ACTIVITIES BEGIN AT 10AM

- EnergyVille 1 and 2 Battery Testing Lab, Battery and PV Testing Lab
- Soltech & Posetron
- T2 campus
- Lunch at EnergyVille 1

PRELIMINARY SCHEDULE

- **HOTEL PICK UPS WILL BE AT 9:00AM**
- **LUNCH LOCATION TO BE CONFIRMED | 1PM**
- **AFTERNOON DROP OFFS FROM SITE VISIT TO HOTELS BEGIN AT 2:30PM**

EnergyVille is a leading research center dedicated to sustainable energy and intelligent energy systems of the future. As a collaboration between KU Leuven, VITO, imec, and UHasselt, EnergyVille brings together scientific expertise and technological innovation to support the development of affordable, reliable, and sustainable energy solutions. Based at the Thor science and technology campus in Genk, Belgium, EnergyVille acts as a bridge between academic research, industry, and policymakers—playing a key role in accelerating the energy transition both locally and internationally.

EnergyVille is a leading research collaboration between KU Leuven, VITO, imec, and UHasselt, located at the Thor Park in Genk. EnergyVille brings together top researchers and infrastructure to tackle key challenges in sustainable energy, energy storage, and smart energy systems.

During this visit, you will visit two of our key research facilities and get a glimpse into our advanced research infrastructure focused on sustainable energy and battery innovation.

THOR PARK ENERGYVILLE SOLTECH & POSETRON



We will visit the **Battery Testing Lab**, where batteries are tested under various conditions to evaluate their performance, efficiency, safety, and lifespan—crucial for integrating renewable energy into the grid.

SITE VISIT 2 CON'T | 9:30am - 2pm

Next, in the Battery Materials Lab, you'll discover how we develop and test the next generation of battery technologies, including solid-state batteries. Our researchers work on improving battery materials and scaling up new concepts for safer and more efficient energy storage.

<https://energyville.be/en/labs/>

BATTERY MATERIALS LAB



POSETRON was founded in 2018 with the ambition to actively contribute to the energy transition, with a clear focus on energy storage. In recent years, we have further expanded our expertise and knowledge to provide customized solutions to companies that want to focus on energy storage, and everything related to the realization of these projects.

During the site visit, we will showcase the battery storage system that is integrated near the Soltech building. Combined with this unit and other demo units, we will try to give a full vision on the process (from concept to project), alongside the different possible solutions available at this moment.

POSETRON



SITE VISIT 2 CON'T | 9:30am - 2pm

SOLTECH is a pioneer in building-integrated solar and LED technology, combining energy, light and aesthetics. By embedding solar cells into glass, façades and infrastructure, we make built surfaces both sustainable and beautiful.

During this visit, we will showcase our innovative production facility at Thor Park in Genk - including a 4,000 m² production hall and 1,000 m² of office space, designed as a functional showcase of our technology.

You'll discover how solar integration is applied in façades, canopies, balustrades and roofs - demonstrating concept, design and local production in one experience.

SOLTECH



T2 CAMP: Our visit to the T2 Campus will offer a brief yet inspiring glimpse into one of Belgium's leading hubs for technology, training, and innovation. Located in Genk, the T2 Campus brings together education, research, and industry to foster skills and knowledge in energy, technology, and sustainable development. Participants will have the opportunity to explore how the campus supports the next generation of technicians and engineers through hands-on learning environments and collaborative programs that align with the energy transition and digital transformation goals across Europe.

T2 CAMPUS



END OF SITE VISITS



REGISTRATION

Registration will take place Monday. Please bring your national ID or passport.



DRESS CODE

Formal to casual office business attire. Dress warm for colder weather and rainy days! Umbrellas and waterproof shoes will keep you dried!



SAFETY

No matter where in the world you find yourself, it is important to be vigilant of your surroundings. We urge participants to be cautious and observant of their surroundings to stay safe and secure.



CONTACT THE ORGANIZERS

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LOCAL TIME (GMT+2)



EVENT VENUE

EnergyVille

Thor Park 8310 3600 Genk Belgium
600 Genk

GPS: André Dumontlaan 67
3600 Genk
Belgium

Coffee Breaks

Welcome coffee as well as mid morning and afternoon coffee breaks.

Lunch

Buffet lunch will be provided at the meeting location. Follow the signs or request information from one of the organizers. Please let us know if you have any dietary restrictions.

Cocktail

You are invited to a reception at the end of Day 1, at M Hotel.

LOCAL EMERGENCY NUMBER

112

POLICE ONLY

101

HOTELS

Hotel Ecu *** <u>www.hotelecu.com</u>	Europalaan 46 3600 Genk
Carbon hotel **** <u>www.carbonhotel.com</u>	Europalaan 38 3600 Genk

Note: We will provide transportation to the venue and site visits from these two hotels. A bus schedule will be shared as we get during the event.

TAXIS

<u>www.eco-taxi.be</u>
Taxi Peters Turfstraat 54 - 3600 Genk Tel: +32 475 30 62 91 E-mail: info@taxipeters.be www.taxipeters.be

PRACTICAL INFORMATION

In Genk, you'll encounter electricity supply: 230 volts AC, 50 Hz. Travelers in Belgium, including Genk and Brussels, use plug types C and E. The standard voltage is 230 V with a frequency of 50 Hz.

Here is a more detailed breakdown of the plug types and electrical considerations:

- Type E plugs have two round pins and a hole that accepts the grounding pin found in Type E outlets.
- Type C plugs, with two round pins, are also used and are compatible with Type E outlets.
- The CEE 7/7 hybrid plug, which is compatible with both Type E and Type F outlets, is also used.

PLEASE BRING YOUR OWN ADAPTER.

Water: water throughout the country is potable and safe for drinking. Bottled water is available in hotels, restaurants, supermarkets, etc.

International calls: to call a Belgian number from abroad, dial country code +32, followed by the phone number. For international calls from Belgium, begin with dialling 00 followed by the country code and the phone number.



CURRENCY

The currency: Euro (€).



WEATHER FORECAST

In November, Genk, like other inland areas of Belgium, experiences cold and windy weather, with average temperatures ranging from approximately 3°C (37°F) at night to 10°C (50°F) during the day. You can expect the days to be mostly cloudy, so packing warm layers, including a jacket, sweater, and raincoat is advisable.

Average High: Around 8°C to 10°C (46°F to 50°F).

Average Low: Around 3°C to 4°C (37°F to 39°F).



IDENTIFICATION

For registration and badge collection, please bring your physical identification. We request that you wear your event badge at all times.



DOWNLOAD OFFLINE MAPS

Apple Store Options: Google Maps ([Download](#))

Android Options: Google Maps ([Download](#))



TRANSPORTATION

- AIRPORT-HOTEL TRANSFERS WILL BE PROVIDED BASED ON THE ITINERARY YOU SHARED WITH THE ORGANIZERS.
- HOTEL TO VENUE TRANSPORTATION WILL BE PROVIDED NOVEMBER DAILY.
- SCHEDULE WILL BE CIRCULATED AT A LATER DATE.

SOCIAL MEDIA



Make use of the event pull up banners located outside the main ballroom. Take photos with your peers and friends and share them through your social media handles. Don't forget to follow us and each other!

ORGANIZERS' SOCIAL MEDIA HANDLES

ESP	<u>LinkedIn</u>
ESMAP	<u>LinkedIn</u>
EnergyVille	<u>LinkedIn</u>

EVENT SOCIAL MEDIA KIT

https://www.canva.com/design/DAGi3Xvfizg/5tluuojzERZr9m26_bCdCg/edit



EVENT HASHTAGS

#EnergyStorage	#RenewableEnergy	#M300
#ESP2025	#EnergyTransition	#ESMAP
#ESPInnovation	#LivablePlanet	#SDG7
#WomenInEnergy	#ESPPartners	#ESPStakeholders

ABOUT ESP



Working together, the 59 ESP partners are developing a knowledge base in energy storage solutions tailored to the needs of developing countries. The ESP incorporates an international approach to research and development, knowledge-sharing, training, and capacity building to address some of the critical barriers to stationary energy storage market growth in developing countries. By connecting stakeholders and sharing experiences in deploying energy storage and advancements in storage technologies, the ESP helps bring new technological and regulatory solutions to developing countries and help develop new business models that leverage the full range of services that storage can provide.

ABOUT ESMAP

The Energy Sector Management Assistance Program (ESMAP) is a partnership between the World Bank and over 20 partners to help low- and middle-income countries reduce poverty and boost growth through sustainable energy solutions. ESMAP's analytical and advisory services are fully integrated within the World Bank's country financing and policy dialogue in the energy sector. Through the World Bank Group (WBG), ESMAP works to accelerate the energy transition required to achieve Sustainable Development Goal 7 (SDG7) to ensure access to affordable, reliable, sustainable, and modern energy for all. It helps to shape WBG strategies and programs to achieve the WBG Climate Change Action Plan targets.



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