



CLEANHORIZON

# ENERGY STORAGE ONLINE SESSIONS MARCH & JUNE 2023

[www.cleanhorizon.com](http://www.cleanhorizon.com)



# Energy Storage

Online Sessions – March 2023

Session 1

## Introduction to energy storage

March 14th – June 20th, 2:00 PM – 5:00 PM CEST

Session 2

## Business models and revenue streams in Europe

March 16th – June 22nd, 2:00 PM – 5:00 PM CEST

[Click here to check our online store](#)



## Introduction to energy storage

Applications

Technologies

Costs

Risks



### Objectives

Global energy storage markets, taking a look at the broader picture from an international perspective

Energy storage technologies and applications



### Who should attend?

Any stakeholder interested in understanding the energy storage markets and the different technologies available



### Prerequisites

None

# Webinar training – Session 1

## Introduction to energy storage

Applications

Technologies

Costs

Risks

### When:

March 14th, 2023, 2:00 PM to 5:00 PM CEST

June 20th, 2023, 2:00 PM to 5:00 PM CEST

### What's included:

- 3-hour live webinar
- Q&A
- Training slides

### Price:

- **400 EUR net of VAT per participant**
- **GROUP DISCOUNT** (3 - 5 participants from the same company): benefit from a total price of 1 000 EUR net of VAT per session

## Introduction to energy storage

Applications

Technologies

Costs

Risks

1

### Introduction to international storage markets

- Brief overview of energy storage technologies
- Energy storage leaderboard
- Main applications of utility-scale energy storage

2

### Lithium-ion: what to expect for the next decade ?

- Breakdown of the turn-key battery storage system cost
- NMC vs LFP, what is at stake
- The fire risk explained
- Recycling & repurposing

3

### Global market trends

- Choosing between AC- and DC- coupling
- Aggregation: a must-have for storage

# Business models and revenue streams for energy storage in Europe in 2023



### Objectives

This session is a great introduction to:

Understanding of the market structure in Europe and its benefits for energy storage  
Understanding of the market developments for storage to provide a variety of services across the electricity supply chain (generation, transmission, distribution)



### Who should attend?

Investors, developers, independent power producers willing to have a good level of understanding of the different revenue streams available for storage system in Europe.

This session is also a good opportunity for stakeholders worldwide to understand how the European market structure enables storage development through revenue stacking to maximize benefits.



### Prerequisites

None

# Business models and revenue streams for energy storage in Europe in 2023

### When:

March 16th, 2023, 2:00 PM to 5:00 PM CEST

June 22nd, 2023, 2:00 PM to 5:00 PM CEST

### What's included:

- 3-hour live webinar
- Q&A
- Training slides

### Price:

- **400 EUR net of VAT per participant**
- **GROUP DISCOUNT** (3 - 5 participants from the same company): benefit from a total price of 1 000 EUR net of VAT per session

## Detailed agenda – Session 2

### Business models and revenue streams for energy storage in Europe in 2023

- 1 Introduction to European storage markets**
  - Overview of installed capacity per country

- 2 Capacity markets**
  - Why do we need capacity payments
  - The strike price model VS the availability model
  - Example of the French long-term capacity auction

- 3 Frequency Containment Reserve**
  - The FCR cooperation
  - FCR price : where will the decline end ?

## Detailed agenda – Session 2

### Business models and revenue streams for energy storage in Europe in 2023

4

#### Fast frequency control services

- The growing need for fast frequency control
- Example of the Dynamic Containment, Great Britain's most lucrative ancillary service

5

#### Secondary reserve markets

- The PICASSO cooperation project
- How to generate revenue with storage assets on the aFRR
- Example of Belgium: energy storage takes advantage of Elia's new aFRR format

6

#### Conclusion

- Mapping of the major opportunities for storage in Europe
- A quantitative forecast of the storage landscape in 2025

# Registration Process

**ONLINE REGISTRATION** on <https://www.cleanhorizon.com/online-store> :

## *Interested in signing up for both sessions (when applicable)?*

You can benefit from an additional discount if you sign up to the 2-in-1 session package!!!

Please select our 2-in1 training webinar in our online store.

## *Interested in enrolling multiple participants?*

You can benefit from a group discount (3 - 5 participants from the same company): benefit from a total price of 1 000 EUR net of VAT per session !

*You will need to create your online client account to proceed with payment through PayPal. Once your payment is done, you will receive a confirmation of your registration by email (please check on your spam box).*

## **CANNOT REGISTER ONLINE?**

In order to receive a proforma invoice and pay through bank transfer, please send an email to [accounting@cleanhorizon.com](mailto:accounting@cleanhorizon.com) to including:

- The company name, its billing address, its VAT number and any other mention (such as purchase order) needed by your finance department,
- The title of the training webinar for which you want to book attendance
- The first name and family names of the attendee(s)

**FOR MORE INFO, please feel free to contact us at [training@cleanhorizon.com](mailto:training@cleanhorizon.com)**



CLEAN**HORIZON**

If you have any questions, please reach out to:

[training@cleanhorizon.com](mailto:training@cleanhorizon.com)

12 rue de la Chaussée d'Antin  
75009 Paris, France  
[contact@cleanhorizon.com](mailto:contact@cleanhorizon.com)  
Tél : +33 (0)1 78 76 57 04

Clean Horizon Americas  
1200 BRICKELL AVE, SUITE 1960  
MIAMI, FL33131, USA  
[reports@cleanhorizon.com](mailto:reports@cleanhorizon.com)

[www.cleanhorizon.com](http://www.cleanhorizon.com)

