



InnoEnergy Skills Institute

Battery Storage Opportunities and Uses

Last revised: 2023 March

Achieving the European goals by 2030 is an exciting but challenging goal. A critical piece of the puzzle is battery storage which has the potential to offer sustainable solutions across power, transport, and industrial sectors. But what are the key technologies driving battery storage? What are the applications? What are the challenges? And how can you harness the potential for your home, or place of work?

This certification focuses on the most exciting battery storage technologies, exploring how they work, their strengths and weaknesses, and their application across a breadth of sectors.

Learning outcomes

Upon completion of the certification, learners will be able to:

- Understand solutions that can enhance the flexibility in the electricity market
- Develop an overview of the main battery storage technology groups, their respective most promising technologies, and their technical characteristics
- Build insight into why battery storage services and technologies have been developed and deployed at a much slower pace than expected
- Enhance your current expertise through several real-world business examples
- Boost your career by gaining an understanding of different business models of battery storage at grid-scale, behind-the-meter, off-grid, and mobility.

Certification structure

The certification is delivered fully online and is self-paced, making it easy for participants to learn without having to take time off work.

The certification consists of a self-paced online course and is structured as follows:

Course 1: Battery Storage: Potential Applications and Challenges



- Explore the potential role and position of battery storage in the future European electricity industry, with a concise overview of sectors that will be involved or affected by battery storage technologies. You will also have a chance to draw inspiration from business innovation examples in the real world.

Instructors

The certification is led by experts from the EIT InnoEnergy ecosystem. Instructors on this certification are:

Anna Darmani

Lead Analyst at Wood Mackenzie Power & Renewables and former Energy system analyst at EIT InnoEnergy, Anna is responsible for several EU projects in the area of energy technology innovation and research. She is engaged in the road-mapping of high-potential energy technologies in the future European energy market.

How will you learn?

This is an online certification and can be taken at your usual study location. The certification has one self-paced course.

Duration: 4 Hours

Is it right for you?

This certification is beneficial for anyone interested in battery storage technology and understanding the main applications.

Prerequisites: Basic grounding in the field, but not essential.

Certificates of Achievement

We offer two pathways for issuing of certificates, **InnoEnergy Skills Institute Certificate** and **EDC (European Digital Credentials)**, each with its own unique set of benefits, allowing your organization to choose the one that best suits the objectives. **The Achievement recognition will be awarded at a >75% course assessment pass rate.**

InnoEnergy Skills Institute Certificates



What is it?

The InnoEnergy Skills Institute serves as the certificate issuer, verifying learners' progress and achievements with the course material.

What are the benefits?

InnoEnergy Skills Institute certificates are highly adaptable for recognizing various learning levels and achievements. We offer Participation, Completion, and Achievement certificates for learners who complete online courses through the Skills Institute platform.

What that means for you?

You will receive a digital credential that you can store in your personal digital credential wallet. You can also add and share these credentials on your social media platforms. The authenticity of the credentials can be verified online by anyone seeking credential verification.

European Digital Credentials (europass)

What is it?

European Digital Credentials provide an online record of an individual's personal achievements and qualifications. Recognized by employers across the continent, InnoEnergy Skills Institute can issue European Digital Credentials, which learners can add to their European Digital Credentials wallet. For this type of credentials, we only offer Achievement certificates, awarded at a >75% course assessment pass rate.

What are the benefits?

It allows learners to signal their skills and qualifications using the European Learning Model — a semantic standard that helps the recognition of qualifications and digital credentials across Europe. It also combats fraud, and greatly reduces administrative costs.

What that means for you?

You can be confident in the authenticity of your credentials and showcase your skills in a way that is understood in the context of the European Learning Model. You'll also be able to access everything quickly and easily via your online European Digital Credentials wallet.