



5# Quarterly Newsletter

December 2021

Battery Technology, Training and Skills!

INTERVIEW



In this issue we interviewed Mr. [Frank Gielen](#), Executive Board Member and Education Director at [InnoEnergy](#), a partnership working at crossroad of innovation, entrepreneurship and education, with a mission to accelerate sustainable energy transition.

[Read the full interview here.](#)

ALBATTS NEWS



On European Skills Strategy

The **Sectoral Intelligence work package (work package 3)** has focused on the development and delivery of the first version of the "Sectoral Skills Strategy" which is the main output based on the gathered sectoral intelligence in two years of the project. This provides a strong basis for further development of outputs, mainly in terms of curricula and training, as well as overall support to the development of the skills agenda in the European Battery Sector.

The document starts by providing a set of recommendations and actions on how to support and boost re-/up-skilling within the European Battery Sector. This means the overall approach as well as practical specific recommendations on guidance on what to re-skill and up-skill in terms of skills, competences, needed occupational profiles.

The second part of the document provides an analysis of the state of the art of the whole battery value chain, starting from raw materials processing, manufacturing, applications, to recycling and second use - scope, activities, and processes are described as well as quantitative data on skills needs.



On Training and Education for the future

During the last quarter, partners developing activities under WP6, have been dedicated to preparing and writing the report "Preparatory development of the education and training framework and choice of tools", published the end of November. This deliverable proposes ALBATTS approach for the education and training for the Battery sector and the choice of tools to be used, for developing and delivering learning content.

Additionally, work towards curriculum analysis and new curricula solutions, in task 6.4 has also started by mapping knowledge and interests within the consortium related to the identified job roles and skills needs in the Sectoral Intelligence. Curricula for Basic knowledge in batteries, Safety and Automotive applications will be defined by using the learning

outcomes approach and training material for these topics will be developed, in close cooperation with task 6.5.



On skills research for the battery industry

Work Package 4 - Intelligence in Stationary and Industrial Battery Applications, ISIBA

This autumn, the members of Work Package 4 have published two deliverables. [**D4.4 – Desk Research 2**](#) studies battery manufacturing, the anatomy of a Gigafactory and the needed job roles and skills. [**D4.5 - Sectoral Intelligence report**](#) provides information about the stationary battery applications from base stations to grid systems. It studies the related trends as well as job roles, skills, and competences.

In proceeding with the planned activities, the third desk research was already launched. It will focus on studying significant stationary battery applications that have not been covered yet in the previous research.



WP4 and WP5 has also organised several webinars this autumn on the [**Qualifications Needed to Service Electric Vehicles**](#); on the [**New EU Battery Regulation Proposal**](#); on [**Recycling Electric Vehicles' Batteries**](#) and also on [**Autonomous Operation and Virtual Reality in Maritime Applications**](#).

They also included interviews that covered [**job roles and skills when building a Gigafactory**](#) (Katarina Borstedt, Northvolt), [**Battery Passport**](#) (Claudia Gamon, Member of the European Parliament) and an interesting conversation regarding [**Battery energy storage system of Azores that can enable a sustainable island**](#).

You can [**watch the recordings of these sessions here**](#).

ECOSYSTEM INITIATIVES



**AUTOMOTIVE
SKILLS
ALLIANCE**

The [Automotive Skills Alliance \(ASA\)](#) partnership launched under the Pact for Skills initiative, celebrated its first anniversary and continues growing and promoting flagship projects like [DRIVES](#) and [ALBATTS](#) and several regional pilot projects.

WHAT IS NEW IN EUROPEAN POLICY

BATTERY REGULATION

It has been a year now since the [European Commission proposed a regulation concerning batteries and waste batteries](#). The proposed Regulation would establish mandatory requirements for all batteries placed on the EU market (i.e. portable batteries, automotive batteries, electric vehicle batteries and industrial batteries).

While a first group of compromise amendments is agreed, the due diligence requirement on carbon footprint, recycled content and human rights observance for imported batteries is not. The Environment Ministers of the EU27 have asked that the 'Environment' legal basis be added to the Internal Market legal basis for this future legislation.

STATE OF THE ENERGY UNION 2021

In October 2021, the Commission adopted its [State of the Energy Union Reports for 2021](#), "taking stock of the progress that the EU is making in delivering the clean energy transition, nearly two years after the launch of the European Green Deal".

A EUROPEAN STRATEGY FOR CRITICAL RAW MATERIALS

On 24 November 2021, Members of the European Parliament adopted [A European strategy for critical raw materials](#), prepared by MEP Hildegard Bentele. Under the new proposal, the EU strategy will boost strategic autonomy and resilience in the supply of Critical Raw Materials (CRMs).

BATTERY SECTOR NEWS

[Lithium from German geothermal plants could supply a million electric vehicles a year from 2025](#)

Batteries made with zero-emission lithium from geothermal plants in Germany could power one million vehicles per year by the mid-2020s, according to Vulcan Energy, a company setting out to produce climate neutral lithium in Europe.

[Ecovolta presents new generation of batteries for utility vehicles](#)

The Swiss battery systems manufacturer Ecovolta is launching a new generation of its traction battery evoTractionBattery. According to the company, the lithium-ion battery is specifically designed for electric commercial vehicles, machines and boats.

[Mercedes & Stellantis invest in Factorial Energy](#)

Mercedes-Benz and Stellantis have taken a stake in Factorial Energy, a US developer of solid-state battery cells. In addition to their financial participation, both carmakers have also agreed on development

cooperations with Factorial Energy. Mercedes wants to launch a small series of batteries by the end of 2026.

[Large scale training programme unfolds for Hungarian battery industry](#)

A Memorandum of Understanding was signed between EIT InnoEnergy and the Hungarian Ministry of Innovation and Technology on 29 November 2021 to reskill and upskill thousands of workers.

[EV Battery Cell & Pack Prices Dropping At Surprising Rate](#)

As battery prices drop, EVs can eventually reach price parity with gas-powered cars.

[Industry anxious about mandatory recycling targets in EU battery law](#)

Requiring companies to use recycled metals in new electric vehicle batteries is necessary to prevent manufacturers from opting for cheaper, freshly mined virgin materials, the EU says.

EVENTS CORNER

[Car Symposium](#) - 15 – 17 February 2022,
RuhrCongress Bochum

[Kraftwerk Batterie – Advanced Battery Power](#) 29. – 30. March 2022, Münster

[European Vocational Skills Week 2022](#) -
Spring 2022

[POLICY EVENT: The Sustainable Mobility Transformation – Green AND Just?](#) - 11 January 2022

[12th International Advanced Automotive Battery Conference Europe \(AABC\)](#) 13 – 15 June 2022, Mainz Congress, Germany & online

[Energy Storage Europe](#) 20 – 22 September 2022, Messe Düsseldorf

[Become an ALBATTTS Stakeholder](#) to receive regular information about the findings of the project (quarterly newsletters, invitations to webinars, surveys) and to help define the new EU Sectoral Skills Strategy for the Battery sector.

To know more about the ALBATTTS project visit our channels by clicking on the links below.



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