PowerizeD

Digitalization of Power Electronic Applications within Key Technology Value Chains

PowerizeD
PROJECT NEWS

PowerizeD is an innovative EU funded project aiming to develop breakthrough technologies of digitized & intelligent power electronics to enable sustainable & resilient energy generation, transmission & applications

Project number: 101096387

Project name: Digitalization of Power Electronic Applications within Key Technology ValueChains Project acronym: PowerizeD

Call: HORIZON-KDT-JU-2021-1-IA

Project starting date: 01/01/2023 | **Project end date:** 31/12/2025

Project duration: 36 months

Malta, EFECS 2025

Welcome to the latest edition of the PowerizeD Project Newsletter.

As we enter the final phase of the project, the past months have been full of activity, collaboration, and momentum. From major event participation to technical lectures and exciting news about what comes next, the PowerizeD consortium continues to push forward with focus and ambition.

Here are the key updates from across the project.

1 PowerizeD at EFECS 2025 – *Showcasing Results as We Approach the Finish Line*

The PowerizeD project had a strong presence at *EFECS 2025*, the annual European Forum for Electronic Components and Systems. This year's event once again brought together leading voices from across industry, research, and policy, making it an ideal stage to share our latest results and engage with the community.

At our booth, visitors explored *presentations, leaflets and videos* that highlighted how PowerizeD is advancing the digitalisation and intelligence of power electronics. Conversations throughout the exhibition focused on sustainability, efficiency, and the real-world impact of our innovations, all central themes as we approach the final deliverables.

Our project representatives also contributed to discussions around energy efficiency, chip innovation, and system resilience, reinforcing PowerizeD's role within Europe's strategic ambitions for power electronics.

2 A New Chapter Begins - *Introducing the Moore4Power Project*

We are delighted to share exciting news with the PowerizeD community:

A continuation of the project has now been approved under a new initiative called Moore4Power.

Moore4Power builds directly on PowerizeD's achievements, ensuring momentum continues beyond the current project timeline. The new project will extend our work on intelligent, efficient, and future-proof power electronics, taking key technologies and concepts into their next stages of development.
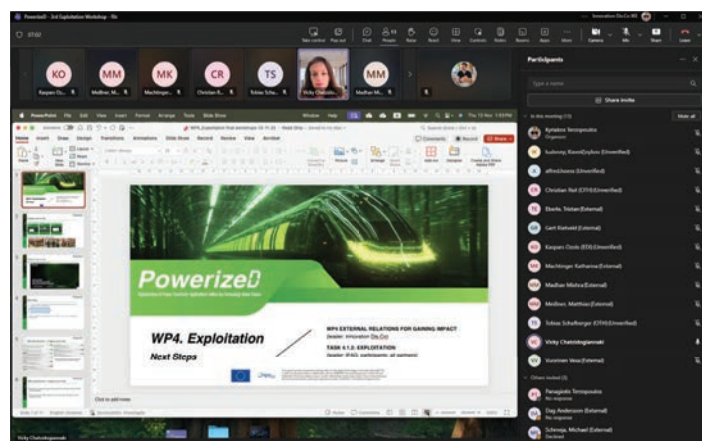
This continuation reflects:

• The strength of PowerizeD's outputs

• The value of collaboration across our consortium

• The strategic importance of advanced power electronics for Europe

3 Final Exploitation Workshops – *Aligning the Path Beyond the Project*

On the 13th and 18th of November, three important online workshops took place as part of the Exploitation activities within PowerizeD.

These were the final Exploitation Workshops for our key stakeholder groups:

• Large Enterprises (LEs)
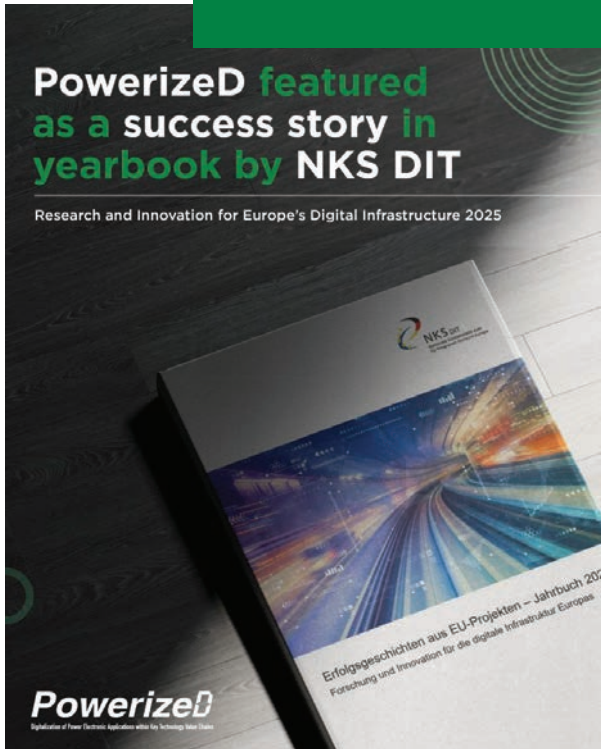
• Research Institutions (RIs)

• SME

The purpose of these sessions was to review the final questionnaires, align on next steps, and ensure each partner's perspective is represented as we move into the final stretch of the project.

While these workshops were internal to the consortium, they mark a meaningful milestone: bringing together industry and research partners to shape how PowerizeD's results will continue to live beyond the project itself.

It is always inspiring to see collaboration in action, especially when it happens across organisations, countries, and disciplines.

4

PowerizeD Recognised as a 2025 EU Success Story

We are pleased to announce that *PowerizeD* has been officially featured as a 2025 EU Success Story in German Success Stories from EU Projects – Research and Innovation for Europe's Digital Infrastructure 2025.

The yearbook is published by NKS DIT, Germany's National Contact Point for Digital and Industrial Technologies, part of the country's Horizon Europe network coordinated by the DLR Project Management Agency. Being included in this publication is a significant recognition of PowerizeD's impact and contribution within the wider European research and innovation landscape.
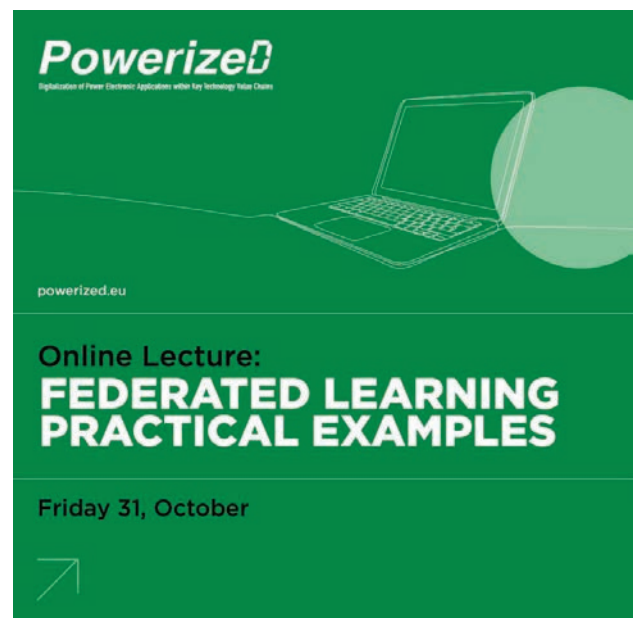
The feature highlights how PowerizeD is advancing intelligent and sustainable power electronics, combining AI, digital twins, and machine learning to support a greener, more resilient, and more efficient energy future for Europe.

This achievement reflects the dedication, expertise, and collaboration of our entire consortium.

A sincere thank you to all partners contributing to this important work.

5

Federated Learning Lecture - *Strengthening Knowledge Across the Consortium*

A few weeks ago, members of the consortium joined an internal lecture on Federated Learning, exploring how this emerging method can support distributed intelligence in power electronics applications.

This session introduced:

• The foundations of federated learning
• Benefits for privacy-preserving analytics
• Its relevance for edge-intelligent systems
• Opportunities for future research and implementation

The lecture reinforced the importance of cross-team learning within PowerizeD, giving partners deeper insight into how digital technologies such as AI and decentralised learning can enhance the next generation of power electronic systems.

Final PowerizeD Meeting in Athens – *Gathering for the Project's Closing Stage*

Our final consortium meeting will take place in Athens, where partners will come together to review the overall progress of the project, evaluate milestones achieved, and align on the final steps leading up to project completion.

Athens, Final Review Meeting

Across the sessions, we will:

• Present and assess technical achievements
• Share learnings from each Work Package
• Exchange insights from demonstrators and use cases
• Finalise dissemination, communication, and exploitation activities
• Prepare the overall wrap-up for the project's conclusion

This gathering will be an important moment to reflect on the successes of the past three years and celebrate the collective effort of all partners who contributed to PowerizeD's vision.

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