Press Release

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ODEON Project Enters Final Stage: Beta Testing Underway Across Five European Pilot Sites and Open Call Set for November Launch

The ODEON project is officially entering its final phase. Following the presentation of preliminary beta component results during its second Review, these developments are now being tested across pilots in five different countries. This testing phase allows for the collection of initial results, with the first official evaluations scheduled to take place by the end of the year.

During this third period, “the project will tackle several key challenges: refining tools based on demonstrator feedback to reach their final stage, finalizing the project's business plan, and presenting the final evaluation of results”, stands it project coordinator from ETRA I+D. A major upcoming milestone is the coordination and mentoring of 20 projects selected through the ODEON Open Call. This will allow firsthand evaluation of ODEON’s tools across 20 different companies, providing a direct, real-world assessment of the platform.

Key Technological Developments

Currently, the most critical development and central element of the project is the "Federated data and intelligence Orchestration & sharing for the Digital Energy transitiON." This serves as the core meeting point for energy sector stakeholders, providing a reliable and interoperable environment for demonstrators and technical partners to effectively govern and manage data.

The project has also released the first versions of its core modules.

For Distribution System Operators (DSOs), partners are developing the Flexibility-based Network Management Module and the Network Planning and Reinforcement Assessment Module. For Energy Communities, the focus is on the Community Portfolio Management and Elasticity-based DR tool, alongside the LEC Energy Management and Self-consumption optimization app. Finally, for prosumers, the project introduces the Digital Energy Assistant (DEA) app.

Open Call Winners and Mentorship Phase

The ODEON Open Call winners will be officially announced in early November. During the initial phase, project partners will focus on mentoring the selected projects and developing individual mentoring plans. Throughout the 10-month program, partners will provide technical guidance to help these projects achieve their proposed objectives: developing services based on existing ODEON components, utilizing pilot data, and creating solutions that address the digitalization challenges of the energy sector.

Pilot Site Demonstrations and Next Steps

The five European pilot sites have made significant progress in their real-world demonstrations.

In the Greek Pilot Site, situated in Mesogia (the broader metropolitan area of Athens), completed activities include the deployment of submetering devices, identification and purchase of near-edge/edge infrastructure, participant engagement for the B2B/B2C Greek Living Lab, registration on the ODEON Platform, historical data collection, and the establishment of regular data pipelines. Initial testing and user feedback collection have also begun. Planned activities for the next period involve deploying edge-devices, full testing and review of use cases, and adjusting the pilot site based on initial results.

The Spanish site, located in the region of Granada, has successfully deployed and installed assets, integrated asset data into the edge node, collected historical data, and integrated historical and near-real-time data into the ODEON platform. An API was developed to access data from the Escúzar and Fornes communities in near real-time. Dissemination and engagement activities are ongoing. Next steps include organizing the Spanish Living Lab workshops with Prospex-Institute on December 2–3 2026, continuing data integration from Wibeee smart meters and communities, and completing the validation of applications.

In France, the pilot site is being demonstrated in the rural area of Hangest-en-Santerre (Hauts-de-France). Activities done include deploying submetering devices (Building PV, batteries) and edge/near-edge infrastructure (slave and master nodes), along with prosumer kickoff and enrollment. The site established data pipelines for continuous uploads and collected historical data from over 400 points (including MV Feeders and 418 consumers smart meters). Therefore, the initial testing is complete. Upcoming plans involve deploying slave nodes at prosumer sites, establishing real-time data pipelines for all necessary data, managing P2P and VPP Smart contracts based on initial results, maximizing self-consumption between the Capitole and Hangest buildings, and fully testing the use cases.

In the Ireland site, implemented in Aran Island, the team has established Living Labs in Inis Mór, Inis Óirr, and Athlone, hosted information and recruitment campaigns, and set up the AWS Server and CFOAT Platform. Monitoring equipment has been received, historic data uploaded, and initial testing of the DEA App has been conducted. Next steps focus on deploying monitoring equipment to public buildings and homes (pending technical assistance), recruiting additional participants, continuing project updates via social media and newsletters, and conducting full use case testing once deployment is complete.

Finally in the Danish site, located on island of Bornholm, engagement meetings and contract signings have secured 30 participating households, incorporating 23 solar panels, 8 windmills,

14 heat pumps, and 16 EVs. The site has ensured data is flowing to BEOF's platform. For the next period, the pilot aims to ensure data flows to the ODEON platform before the end of 2026 and plans to host a Living Lab workshop with prosumers before Summer 2027.

These milestones underscore the ODEON consortium's strong progress and lay a solid foundation for achieving the project's ultimate objectives. Moving forward, the team is focused on finalizing technical developments, executing the pilot demonstrations, and working closely with the 20 Open Call winners. By continuing to build synergies with other European initiatives and actively participating in major industry conferences, ODEON aims to elevate its digital energy solutions to a robust, market-ready maturity.

About ODEON project

ODEON, funded by the Horizon Europe Programme, is driving the resilient transformation of Europe's energy system by supporting greater integration of Renewable Energy Sources (RES) and enabling the smart orchestration of flexibility from distributed assets at the grid edge. With a budget of €22.56 million over four years, the project marks a major step toward a sustainable, secure, and competitive energy future.

Coordinated by ETRA and bringing together 34 partners from 13 European countries, ODEON officially launched in January 2024 and will run through December 2027.

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