



Annex 1 / C2 Output Factsheet

**Annex 1 / C2 to O3.2 A jointly developed
technological pilot solution tested in parallel in
operating energy communities**

Output Factsheet

Output title: A jointly developed technological pilot solution tested in parallel in operating energy communities

Summary of the output (max. 2500 characters)

Output 3.2 is a jointly developed technological pilot solution – ETMEC, delivered in its production version as the ETMEC Community Advisor – created by project partner NEK (Slovakia) with input from the participating partners and tested in parallel in operating renewable energy communities (RECs) across the Danube Region: Neudörfel (AT), Enerkom Šumavsko / Růžek (CZ), Petržalka and the Prešov region (SK) and Luče / Velenje (SI). The solution was developed under Activity A3.3 (deliverable D.3.3.1) and implemented and validated under Activity A3.4. Pilot readiness was assessed with a standardised methodology scoring communities across technical, economic and institutional/legal dimensions (0–60 points). The pilot methodology and feedback were then further developed into the production version – the ETMEC Community Advisor – a browser-based, open-source self-assessment application that evaluates EC readiness through 8 sections / 38 questions across seven dimensions, with weighted scoring, automatic readiness levels (High/Medium/Low), interactive charts and PDF/Excel export, designed for all 14 Danube Region countries and aligned with EU Directives 2018/2001 (RED II) and 2019/944. It runs in any web browser without installation and incorporates the readiness assessment data from the pilot testing. The results, barriers and good practices were consolidated in the Efficiency Report (D.3.4.1) and feed directly into the project White Paper (O3.3).

Contribution to the programme and project objectives, output and result indicator, as well as to the targets set for the Priority Area concerned (max. 2000 characters)

Output 3.2 directly delivers Programme Output Indicator 2.1.3 “Pilot actions developed jointly and implemented in projects” (measurement unit: pilot actions; target value: 1.00), achieving one jointly developed and parallel-tested pilot action. It contributes to Specific Objective SO3 “Enhancing production and use of renewables through pilot testing in potential and existing RECs” and to Priority Area 2 of the EU Strategy for the Danube Region. By providing RECs with a shared technological tool for more resource- and cost-efficient operation, the output supports the project objective of creating appropriate operational conditions for renewable energy communities. It builds on the project’s earlier analytical work – business models and stakeholder management (A1.2) and the assessment of low-cost infrastructure investments (A1.4) – and links Activity A3.3 (software development) with A3.4 (parallel implementation and testing). It also supports the result on increased institutional capacity of cooperating organisations, as partners and pilot communities jointly developed and applied the methodology and tool across borders. Its findings provide evidence-based input to Output 3.3 (White Paper), supporting the wider and more sustainable functioning of RECs across the Danube Region.

How can the output be used and by whom (target group), what is the benefit and the impact for these target groups and the target area / Danube Region? (max. 1500 characters)

The primary users are municipalities, local authorities, energy agencies, cooperatives, NGOs and community leaders establishing or scaling a renewable energy community, together with operating RECs and their managers. Using the ETMEC Community Advisor, they can self-assess their readiness across seven dimensions (including legal, technical, financial, governance and social), obtain a weighted readiness score with interactive charts, and export a structured report (PDF/Excel) to identify strengths, gaps and priorities. The benefit is better-informed, evidence-based preparation and decision-making and a transferable diagnostic framework available free of charge in any web browser. The parallel pilots showed concrete impact: advanced communities (Velenje, Neudörfel) used the tool to optimise solar surpluses, while rural communities (Šumavsko) identified the precise technical and legal gaps – e.g. smart metering and energy management systems – needed to reach readiness. The whole Danube Region benefits, as the tool can accelerate the green, decentralised energy transition across all 14 countries.

How can the sustainability of the output be ensured and where and to whom is it going to be transferred? (max. 1500 characters)

The ETMEC Community Advisor is maintained and operated by project partner NEK (Slovakia), which will continue to run and further develop it beyond the project lifetime; a more advanced version with additional system-level and energy-sharing data is already in preparation. The tool is provided as open source, free of charge and without licensing restrictions; it runs in any web browser (including macOS), requires no installation or server and works offline after the first download. It is available to all partners and pilot communities and, as part of the capitalisation of project results and in line with programme conditions, to third parties beyond the partnership. The readiness methodology and good practices are transferable to other energy communities, regions and sectors across the Danube Region and beyond, and are disseminated through the project White Paper (O3.3) and the NRGCOM channels. The application and its comprehensive user manual are publicly available — hosted on the partner's website (nek.sk) and provided in this package — together with the updated D.3.3.1 deliverable.