



Annex 2 / C1 Output Quality Report

**Annex 2 / C1 to O3.2 A jointly developed
technological pilot solution tested in parallel in
operating energy communities**

Output Quality Report

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

Type of output:

- Strategy / Action Plan
- Solution
- Pilot action

Contribution to PO indicator:

2.1.3 – Pilot actions developed jointly and implemented in projects (target value 1.00)

Summary of the output (max. 1500 characters)

Output 3.2 is a jointly developed technological pilot solution – ETMEC – developed by NEK (SK) under Activity A3.3 and tested in parallel in operating renewable energy communities in Austria, the Czech Republic, Slovakia and Slovenia under Activity A3.4. The pilot applied a standardised territorial readiness methodology (technical, economic and institutional/legal dimensions; 0–60 points). The methodology and pilot feedback were 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, interactive charts and PDF/Excel export, designed for all 14 Danube Region countries and aligned with RED II and Directive 2019/944. The deliverables are D.3.3.1 (software with installation instructions and user manual) and D.3.4.1 (Efficiency Report). Main characteristics: jointly designed, evidence-based, adaptable to different national environments and freely available in any web browser.

Added value (max. 1500 characters)

As a pilot action, the output was tested in real operating energy communities, delivering practical, evidence-based results rather than a theoretical concept. The parallel testing across four countries produced a uniquely broad comparison of REC maturity and showed strong stakeholder interest: advanced communities (Velenje 49/60, Neudörfel 48/60) used ETMEC to optimise solar surpluses; a mature Slovak community (Energetický Holding – Prešov 53/60) confirmed settlement through OKTE/EDC; while early-stage and rural cases (ES Ivanka 41/60, Enerkom Šumavsko 25/60) precisely isolated the technical and institutional/legal barriers to readiness. These outcomes validated both the readiness methodology and the operational logic of the tool and directly informed its further development into the production version, the ETMEC Community Advisor. The added value over existing solutions lies in combining a structured, evidence-based readiness diagnostic with an accessible, open-source application – tested simultaneously in diverse real-world settings – producing transferable data and recommendations that feed the project White Paper (O3.3).

Applicability and replicability (max. 1500 characters)

The output is applied directly by communities, municipalities, local action groups, energy agencies and advisors, who use the ETMEC Community Advisor to self-assess readiness, benchmark progress and prioritise actions; operating RECs use it to review and optimise their setup. Replicability is demonstrated by the parallel testing in four different national, legal and social contexts (AT, CZ, SK, SI), spanning urban (Petržalka), rural (Šumavsko), mature (Prešov, Velenje, Neudörfel) and start-up (Ivanka) communities. The production version is standardised yet adaptable to national specifics, is designed for all 14 Danube Region countries and is aligned with RED II and Directive 2019/944. Being open source, browser-based and free of charge, with PDF/Excel export, it can be adopted with no installation or cost. The evidence-based recommendations – smart metering and EMS support, grid-allocation reform, financial predictability and standardised legal templates – make the approach replicable across the wider Danube Region.

Suggestions for improvement, if applicable (max. 1500 characters)

Several areas for further development were identified during testing and productisation. First, broader multilingual support and country-specific datasets (e.g. national support schemes and legal references) would increase uptake across all 14 Danube Region countries. Second, periodic updating of the underlying legal and tariff references is needed to keep assessments current in a fast-changing regulatory environment. Third, optional integration with quarter-hourly (15-minute) smart-metering data and energy management systems would extend the tool from readiness self-assessment towards operational optimisation – particularly valuable for communities that currently lack continuous metering. Finally, the more advanced version already in preparation, adding system-level and energy-sharing data, should further strengthen applicability for both advanced and emerging communities.

Output Quality Level

- Low
- Average
- Good
- Excellent

Name of the Quality Manager

Signature of the Quality Manager

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