JETFORCE TECHNOLOGY EVALUATION TOOL

UNDERSTANDING YOUR SCORE

Across Central Europe, policymakers and public authorities face increasing pressure to deliver climate-neutral energy systems while ensuring social fairness and territorial cohesion. Decision-makers often lack digital tools that systematically integrate technical, economic, environmental, and socio-economic criteria into energy planning. As a result, the impacts of energy investments on vulnerable groups, local development, affordability, and accessibility are not always fully assessed.

The **JETforCE digital technology evaluation tool** supports decision-makers in selecting technological solutions to enable a *just energy transition*. By integrating technical, economic, environmental, and socio-economic criteria into a single framework, the tool enables transparent, comparable, and socially responsible decision-making across regions.

To use the tool, decision-makers at local, regional, or national levels answer a series of questions about a selected technology. The tool evaluates the technology based on indicators of socio-procedural justice, energy performance, and cost efficiency, generating a weighted score between 0 and 100 to support investment decisions.

Understanding Your Score

Score Range: 0–100 (0 = lowest performance, 100 = highest performance):

- **High Scores (80–100):** Technology demonstrates strong performance across social, economic, and energy indicators. Likely represents a solution that maximises benefits for energy efficiency, renewable energy adoption, and social equality.
- **Medium Scores (50–79):** Technology performs moderately; some areas may need improvement to fully meet just energy transition objectives.
- **Low Scores (0–49):** Technology shows significant gaps in social, energy, or cost-related performance. Action is needed to enhance effectiveness and equity impacts.

Interpreting Your Results

The overall score ranges from 0 (lowest performance) to 100 (highest performance). This score is a weighted combination of Environmental Impact, Social Impact, Economic Impact, and AI-assisted qualitative analysis. Environmental and Social Impact sections are weighted more heavily to reflect their critical importance in a just energy transition.

The score helps you understand how your chosen technology performs overall, but it is also important to review individual indicators:

- **Energy efficiency/environmental indicators:** Does the technology increase energy efficiency, reduce emissions, or optimise renewable energy use?
- **Socio-procedural justice:** Does the technology promote fairness, inclusivity, and community participation?
- **Costs:** Are investment and operational costs reasonable relative to expected benefits?

High Score (80–100):

Your selected technology demonstrates strong performance across all key dimensions:

- **Environmental Impact:** Significant reduction in emissions and resource use; promotes renewable energy and long-term environmental benefits.
- **Social Impact:** Equitable distribution of benefits, high community engagement, inclusion of marginalised groups, and promotion of skills and capacity building.
- **Economic Feasibility:** Reasonable costs, strong ROI, potential for job creation, and positive local economic effects.
- **AI Insights:** Positive socio-economic impacts, community empowerment, and alignment with regional policies.

Next Steps: Consider scaling or replicating the technology, maintain best practices, and monitor ongoing performance.

Medium Score (50–79):

Your technology performs moderately. Some areas may need improvement:

- Environmental measures could be enhanced to maximise emissions reduction or resource efficiency.
- Social benefits may not fully reach all community groups; participation and inclusion could be strengthened.
- Economic outcomes may be reasonable but require optimisation (e.g., financing, ROI, job creation).
- AI analysis may highlight areas where socio-economic benefits or stakeholder engagement could be improved.

Next Steps: Identify the weaker aspects of the technology, refine assumptions or inputs, and implement targeted improvements to boost environmental, social, or economic performance.

Low Score (0–49):

The technology shows significant gaps across multiple dimensions:

- Environmental impact may be minimal or even negative.
- Social equity and community engagement may be lacking.
- Economic feasibility may be limited or uncertain.
- AI analysis may indicate risks or limited socio-economic benefits.

Next Steps: Conduct a comprehensive review, prioritise critical improvements in environmental sustainability, social inclusivity, and economic viability before proceeding. Consider redesigning or supplementing the technology to address identified weaknesses.

Didn't get the score you were anticipating or hoping for? We suggest you:

- Review the AI-generated qualitative feedback to understand strengths and weaknesses.
- Compare your results over time by adjusting inputs to test alternative scenarios.
- Focus on interventions that maximise environmental and social benefits, as these carry greater weight in the overall evaluation.
- Use the score to guide decision-making, support investment choices, and inform strategies for a just energy transition.