

Supporting the transformation process to phase out fossil fuels:

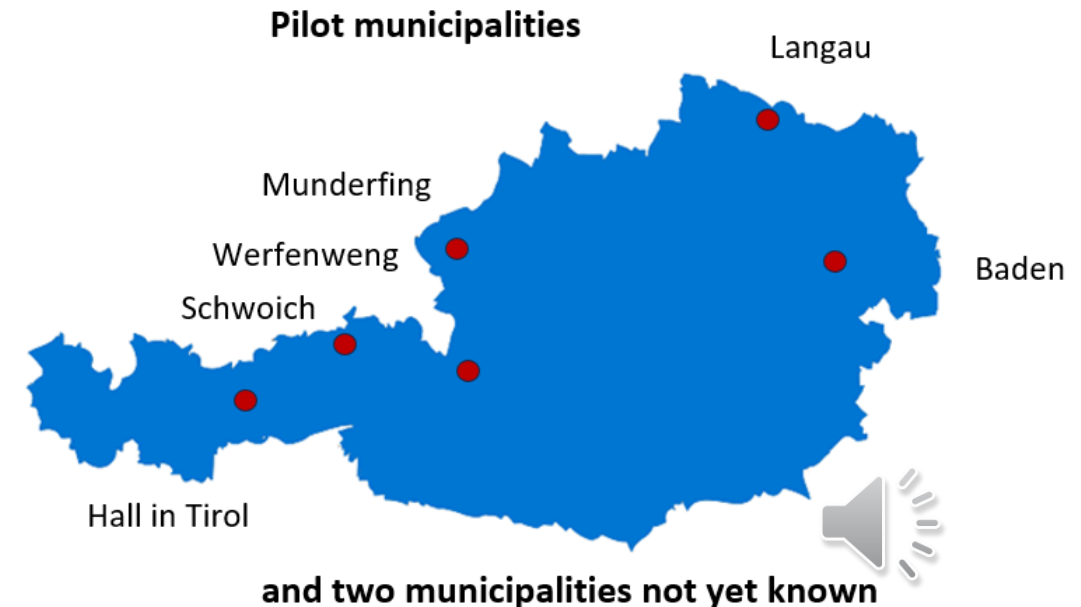
Linking renewable energy projects at municipal level with NECP planning and reporting

Status 28 February 2024

Project duration from 01.10.2022 to 30.09.2024

More information: <https://transformat.at/>

NECP: National Energy and Climate Plan
according to EU Governance Regulation



Recap on NECP structure: content, challenges and solutions

Challenge: Policies and Measures regarding spatial planning and renewable energy not well defined

We provide a solution to facilitate the planning and implementation of renewable energy projects

Section A of NECP Word template

- Compilation of **status quo of policies** according to dimensions of the Energy Union: (1) Decarbonisation, (2) Energy Efficiency, (3) Energy Security, (4) Energy Market, (5) Research, Innovation and Competitiveness
- Compilation of **targets 2030** with a longterm vision to 2050
- Compilation of **policies and measures (PaMs) to achieve the targets**

Challenge: Scenarios are top down and targets not realistic

We enable scenarios based on bottom-up information and realistic targets

Section B of NECP template

- Providing the analytical basis: data review and data collection, scenario analysis, calculations
 - **Scenario with existing PaMs**
 - **Scenario with additional/planned/new PaMs**
- Impact assessment



Municipal development plan is the framework for zoning and land-use plan which impact on the exploitable renewable potential

Housing

Education

Services

Agriculture & Forestry

Industry

Recreation

Ecosystem services

Energy

Guideline for revision and development: **EXISTING**

Housing

Education

Services

Agriculture & Forestry

Industry

Recreation

Ecosystem services

Energy - District heating and cooling networks - Renewable energy

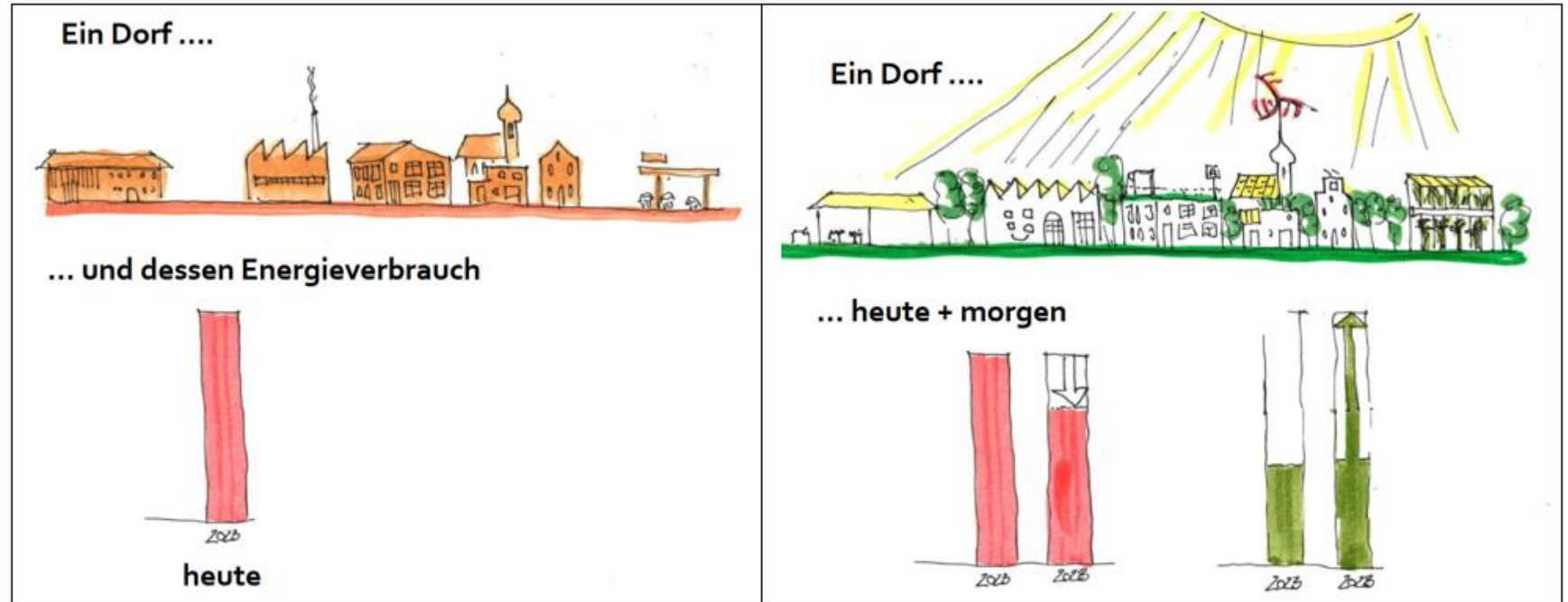
- Collection of information
- Information for the planning task
- Drawing tool with renewable energy potential
- Calculation of NECP related indicators
- Targets definition
- Making information accessible

Guideline and tool for revision and development: **NEW transFORMAT-LINK including minimum criteria for harmonisation across the Austrian provinces**



The concept: a municipality and its energy consumption today ... and tomorrow

- There is usually an occasion for updating a plan, e.g. revitalisation of the city center
- Collect information what has been done so far
- Access information via interfaces to databases
- Use a drawing tool to estimate renewable energy gains
- Make information publicly accessible for discussion to create awareness and acceptance
- Revise existing plans according to Guideline and Minimum Requirements
- Report indicators to supra-local administration



transFORMAT-LINK → LINK-Tool → KLEXI Klimaexpertise, meaning Climate Expert (work in progress)

KLEXI

Landwirtschaft Industrie Gemeinde Gewerbe Wohnen Mobilität



Login:

Different access levels depending on the role:

- **Role "Content provider/ Editor"**: Municipal council, office management, experts: access with password.
- **Role "Interested public"**: Citizens, associations: Access without password.
- **Role "Higher-level administration"**, e.g. "NECP reporting": access with password.

Minimum requirements for municipal development concepts to support renewable energy projects

Minimum requirements for the development of municipal development concepts/plans: **Checklist which criteria to consider and why, to pave the way for renewable energy projects**

- **EXAMPLE:**

Criterion	Qualitative sub-criterion	Reason why this is important
Urban development concept	The urban development concept aims to avoid the creation of heat islands.	Heat islands should be avoided. Heat islands have temperatures up to 5°C higher than the rest of the environment. Passive cooling strategies for buildings such as night ventilation are therefore impossible. The use of cooling appliances becomes more likely. This consumes electricity and heats up the environment even more.

Minimum requirements for managing potential conflicts of interest: **The checklist also serves the early identification of trade-offs, and disclosure of information creates transparency and supports acceptance**

- **EXAMPLE** for the disclosure of information on renewable energy to the interested public: Presentation of the status quo of renewable energy generation and the possible future renewable energy generation; visualization of the area and type of planned renewable energy sources

Minimum requirements to facilitate NECP planning and reporting: **Municipalities to provide access to the data to provincial and federal institutions**

- **EXAMPLE:** Access to the development concept in the form of texts and plans, including the measures to be realized over time. In addition, quantitative indicators can be provided as the information listed in the above chapter is structured to be compatible with the indicators of the NECP.

Results of the project to support renewable energy projects

- Minimum requirements are implemented via LINK-Tool at <https://klexi.at/> (coming soon)
- The LINK-Tool assists the development or revision of a municipal development concept or plan with:
 - Guidelines for municipal development concepts, including criteria what to consider and why to pave the way for renewable energy projects
 - Data for the planning task
 - Templates for collection of information
 - Making information accessible to the public and selected third parties

In addition, the following outcomes are envisaged:

- Input for harmonization of spatial planning legislation
- Input for a funding program to support municipalities with the implementation of measures

More information is available at <https://transformat.at/> and <https://klexi.at/> (coming soon)



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We are happy to answer your questions, contact e-mails can be found on the respective websites:

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<https://www.tuwien.at/en/ar/region>: Daniel Youssef, Hartmut Dumke, Elias Grinzinger, Sibylla Zech

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