

EUROPEAN WEEK of REGIONS and CITIES

Shaping Tomorrow, Together



¹³ October -30 November Close to You 2025





PLENTY-Life: Clean Energy Transition in Timiş County The Lugoj Case Study Results

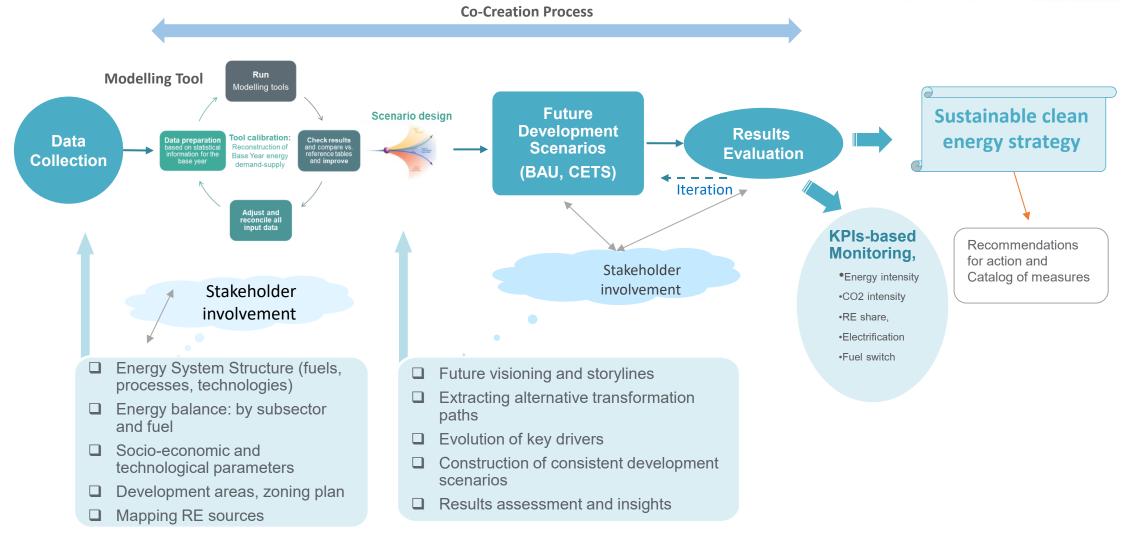
Gabriela Fistiş - Sustainability Consultant



Sustainable Energy Strategy Formulation

-holistic approach, co-creation with local stakeholder-









Key Objectives of Future Scenarios



A scenario is a set of consistent parameters describing possible long-term pattern of demographic, socio-economic, and technological development of a city/region

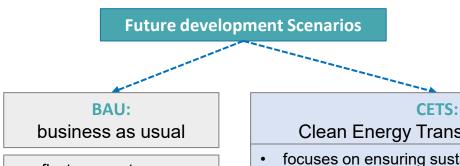
- To help imagine a range of possible futures, explore alternative development trends and address their related challenges and opportunities to achieve the desired prospects
- Help articulate or think through key considerations and assumptions
- Identify gaps, inconsistencies, dilemmas, uncertainties and interdependencies
- Blend quantitative information and qualitative knowledge
- Extract useful information for decision-making.





Future Development Scenarios

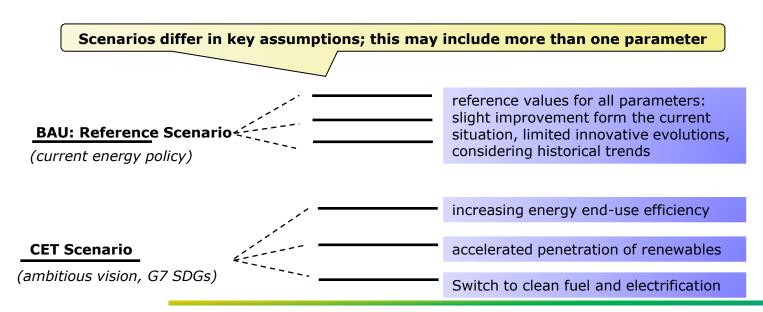




- reflects current energy policy trends
- follows historical trends.

Clean Energy Transition Scenario

- focuses on ensuring sustainable energy development
- addresses the perceived transformation towards efficient, sustainable and low-carbon energy system.







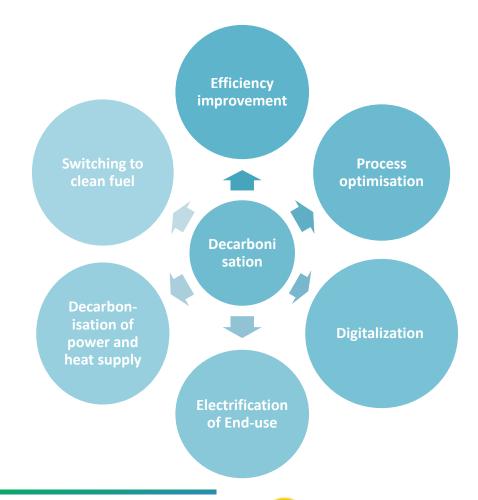
Clean Energy Transition

AUSTRIAN INSTITUTE OF TECHNOLOGY

Key decarbonization drivers

- Energy efficiency improvement
- Fuel Switching: clean fuels (Biogas, H2,...)
- Promoting local/regional renewables
- Electrification of end use
- Decarbonisation of heat and power
- Others: Digitalization, flexibilization, sector coupling

Applied for all sectors





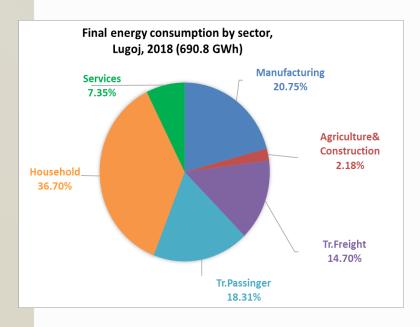


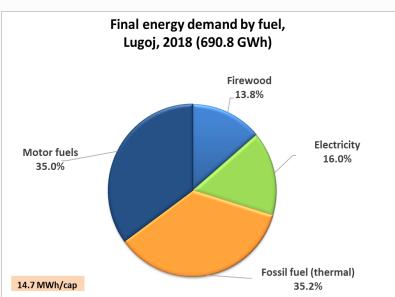
Base year and BAU scenario

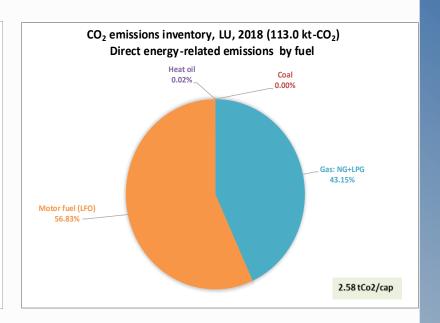


Lugoj Energy Consumption & CO₂ inventory

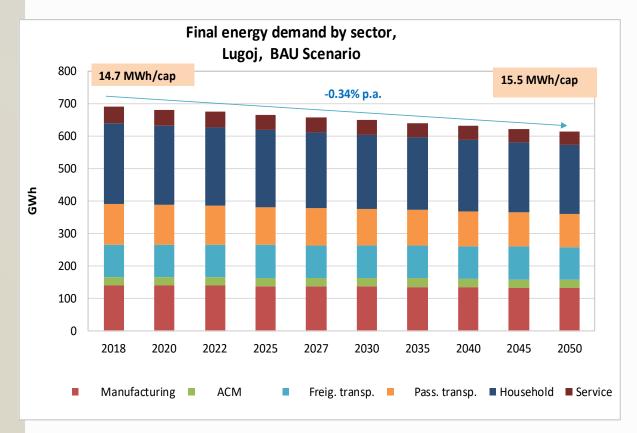
-for the base year 2019-

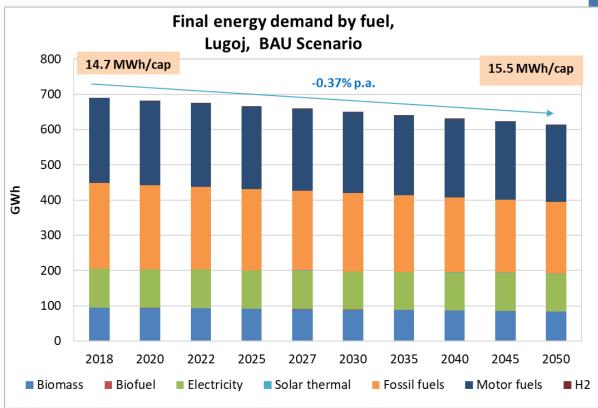






Energy demand projection, Lugoj BAU scenario,

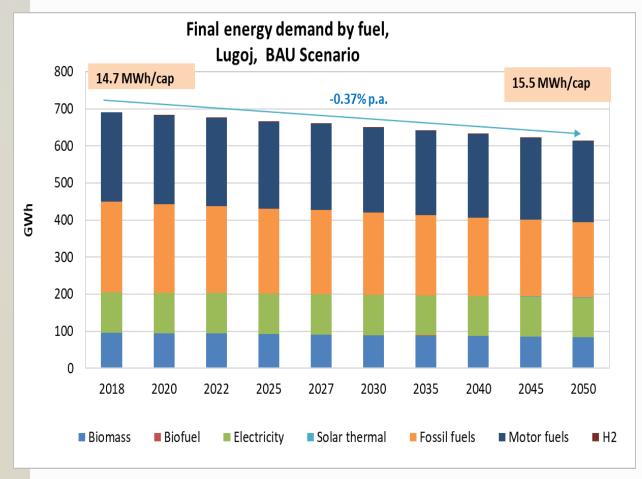


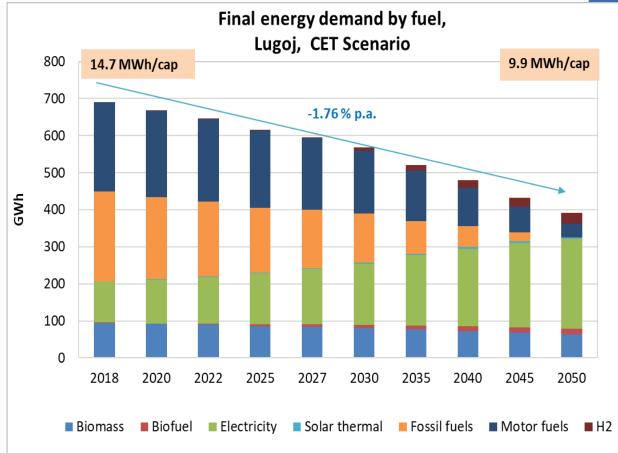


Results of the CET-Scenario

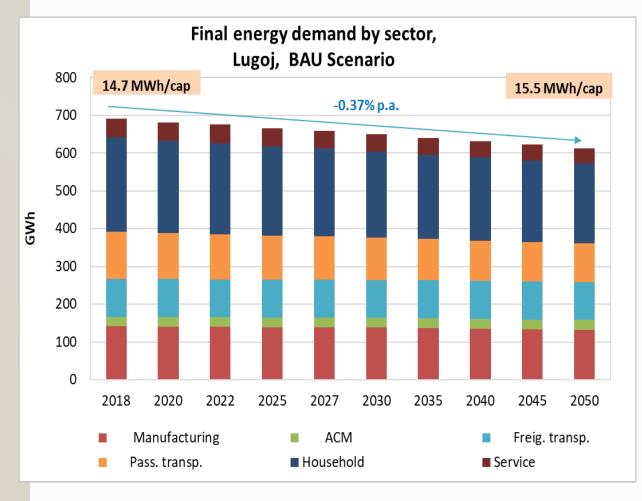


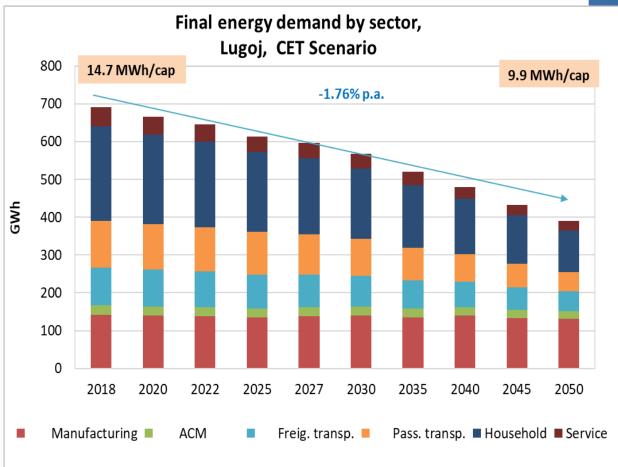
Final Energy Demand by Fuel, BAU and CET- Scenario



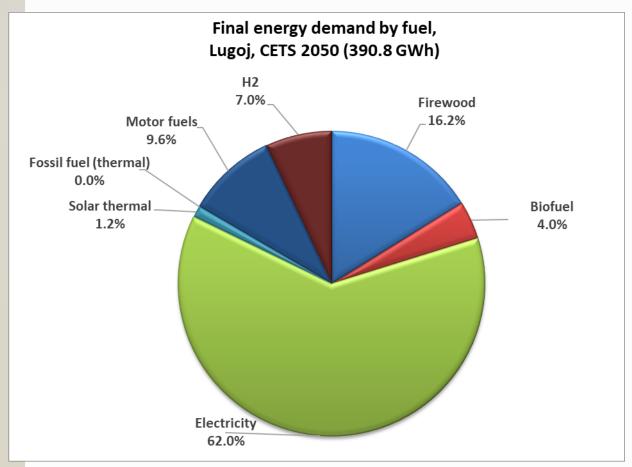


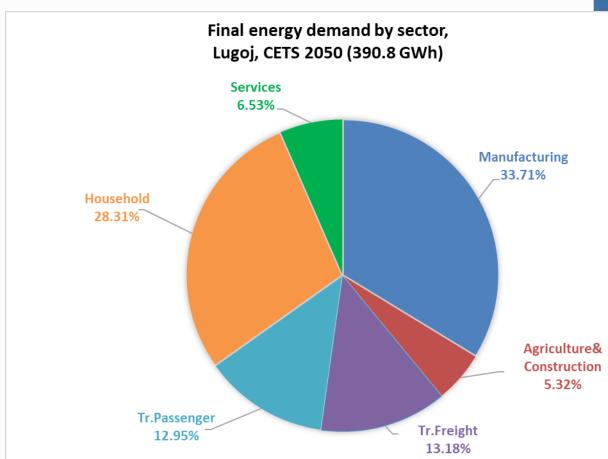
Final Energy Demand by Sector - BAU and CET- Scenario-



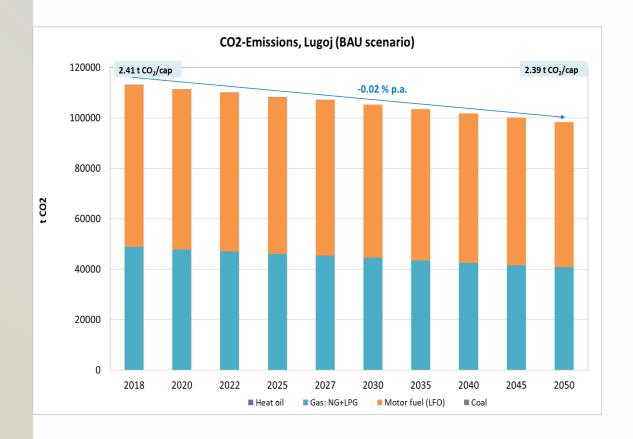


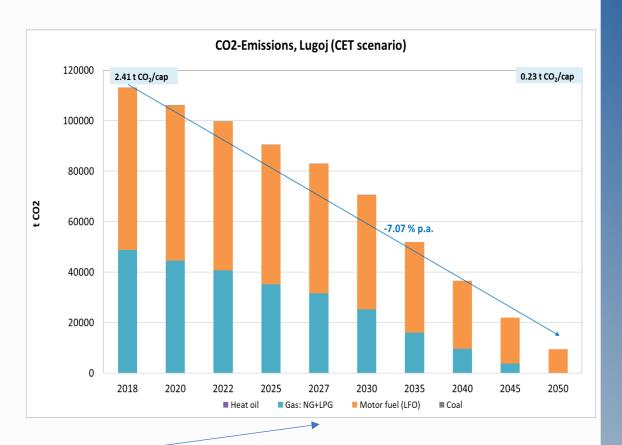
Final energy demand by fuel and sector of Lugoj in 2050 - CET- Scenario





CO₂- emissions by fuel- Lugoj: -BAU and CET- Scenario-



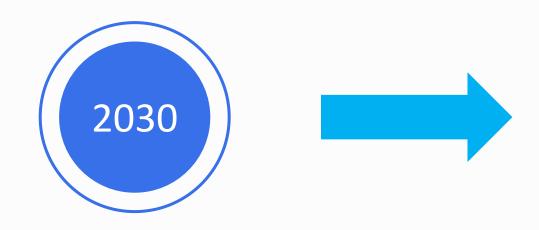


Direct city emissions, scope 1

-92% decrease: from 113 kt CO₂/a to 9.5 t kt CO₂/a

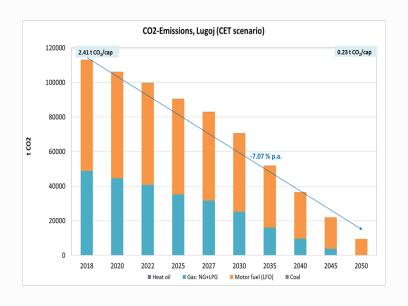
CETS (2050) result compared to the GHG Reduction Targets of the Basic Climate Law

GHG Reduction Targets



Reduction of at least 55% of greenhouse gas emissions compared to 1990 figures acc. "Integrated National Energy and Climate Plan 2021–2030"

CETS (2050) Lugoj



Reduction of the CO₂emissions of **80** % compared
to 1990 (national per- capitavalue was used as reference)

Thank you for your attention and interest!

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