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**PROSPECT2030**

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PROSPECT2030 final conference | 01/12/21



**Insights from Mazovia Region**



PROSPECT2030 | Mazovia Energy Agency | Żaneta Latarowska

# PRESENTATION OVERVIEW

Regional basics

Mazovia Region

Energy system  
baseline

Action plan

Scenario 2030

Chances and  
challenges



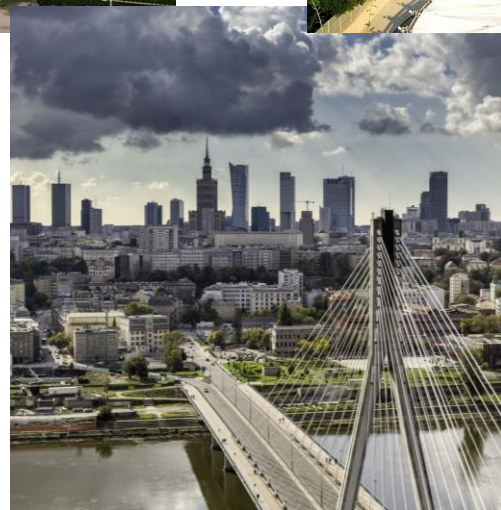
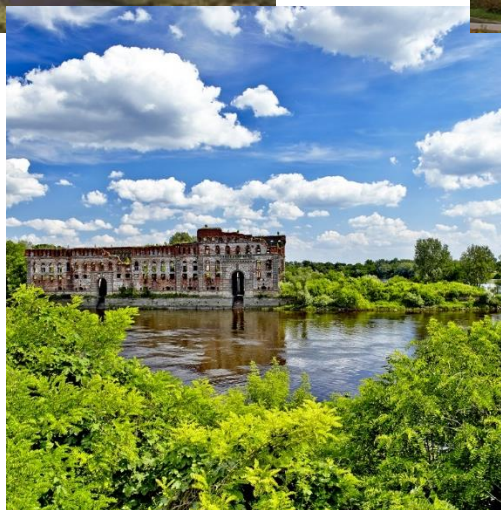
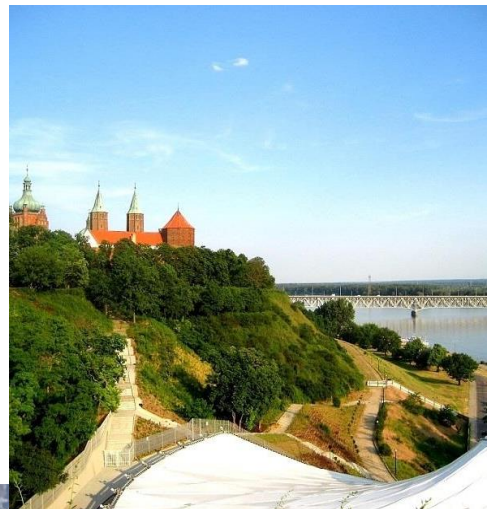
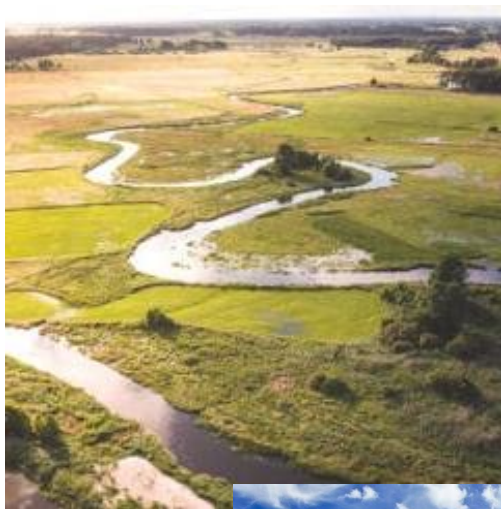
## Mazovia Region - location and population



Settlement structure	National	Regional
Area (km <sup>2</sup> )	312 696	35 558
Population (thousands)	38411,1	5403,4
Population density (people per km <sup>2</sup> )	123	152
Number of municipalities (total)	2 477	314
GDP per capita (euro per capita)	13 893	22 494



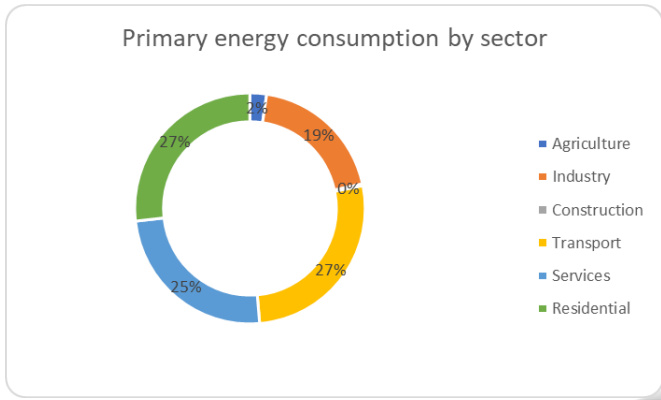
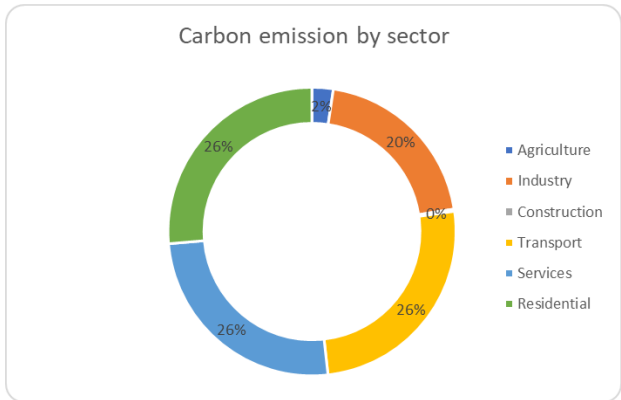
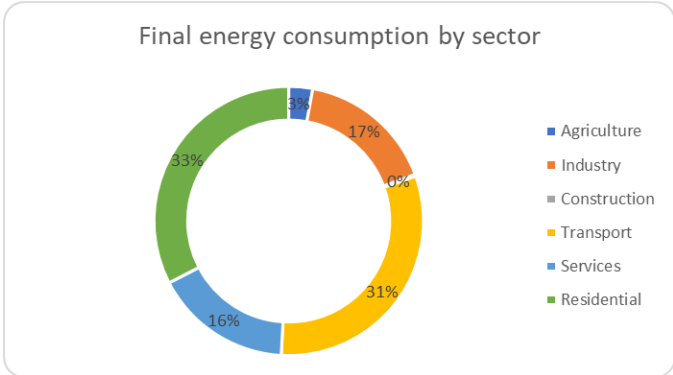
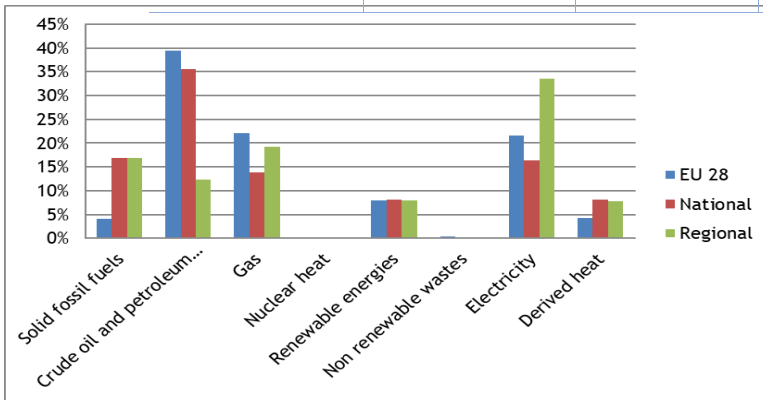
# MAZOVIA REGION

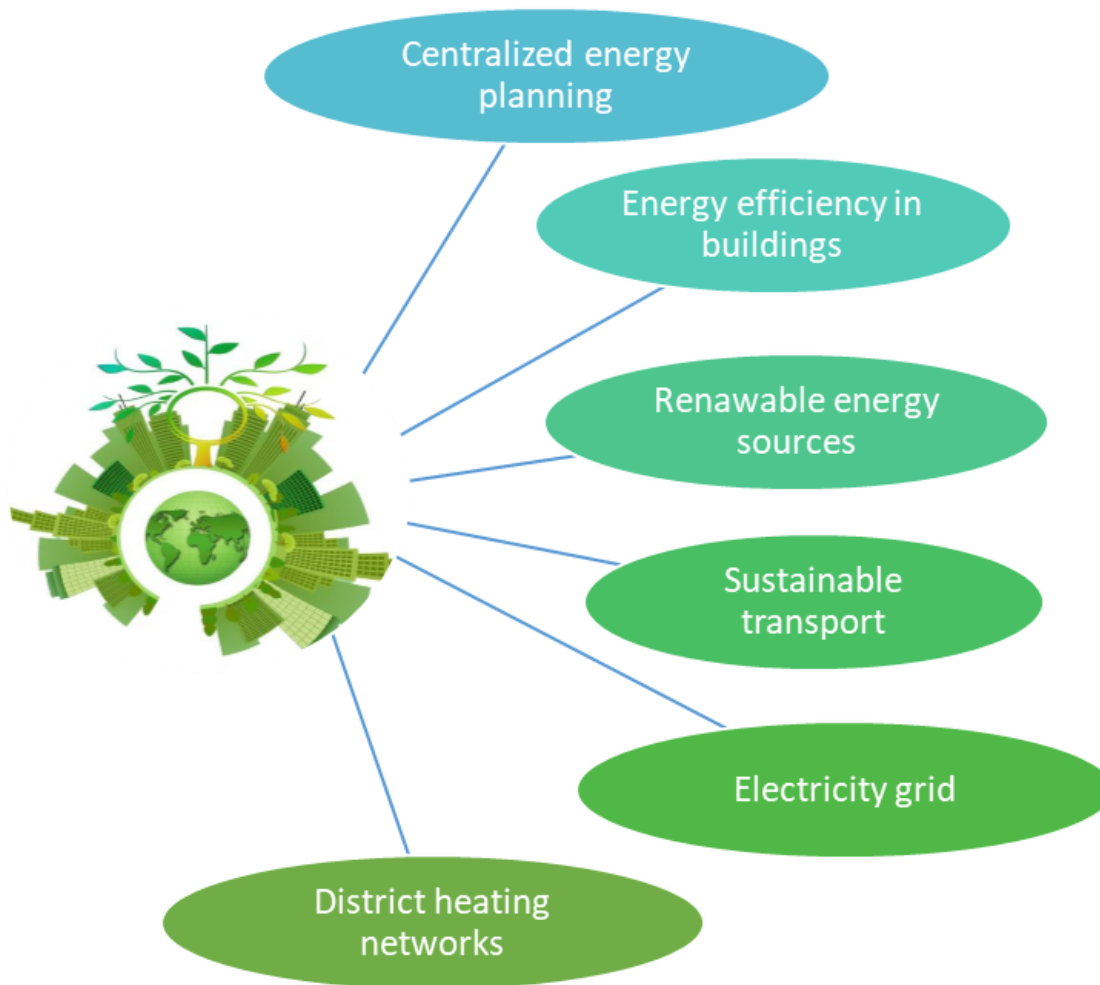


# ENERGY SYSTEM BASELINE

## Total regional pool

Final demand (MWh)	Internal supply (MWh)	Import (MWh)	Export (MWh)	Renewable (MWh)	Share of renewable	Emission (t/year)
132 791 687	91 756 299	41 035 389	152 374 175	15 677 039	11,8%	51 217 126





## Centralized energy planning

- > Organization and systematization of energy data
- > SECAP plan development
- > Financial and technical support to municipalities

## Energy efficiency in buildings

- > Obligatory energy monitoring in all buildings
- > Energy retrofitting of public and private buildings
- > Promotion of renewable sources integrated in buildings

## Renewable energy sources

- > Development of wind energy
- > Development of PV

## Sustainable transport

- > Electrification of the mobility sector
- > Electromobility in public transport

## Electricity grid

- > Renovation of electricity distribution grid and RES integration

## District heating networks

- > Boost and optimalization of the use of district heating
- > Development of geothermy
- > Gasification of thermal systems



Business-as-usual	2030 targets measures
No municipality join and develop energy plan	60% municipalities join CoM and develop SECAPS with commitment 40% CO2 emission reduction
App. 80% heating devices do not meet energy efficiency requirements	Replacement of all heating devices till 2030 to meet EE requirements
Only 50 % public buildings already after thermomodernization	Thermomodernization of all public buildings till 2030
No significant share of RES in transport	At least 14% RES in transport including electromobility
App. 40% buildings connected to DHN	At least 60 % buildings connected to DHN
20% share of RES in heating	At least 30% share of RES in heating
No renovation - transmission losses are increasing	Renovation of transmission grid, reduction of transmission losses
0,5% share of RES in electricity	At least 60% share of RES in electricity

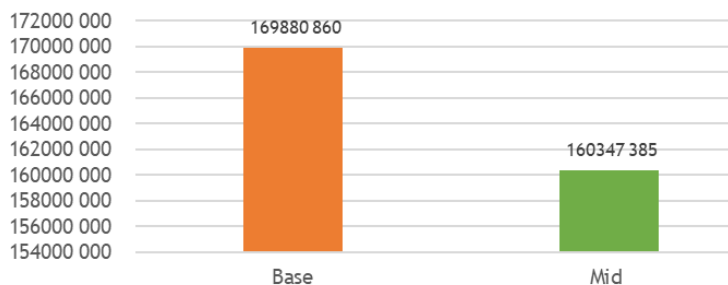




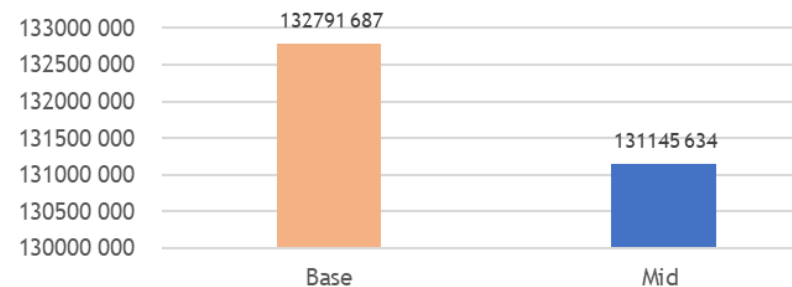
## Total regional pool

Final demand (MWh)	Internal supply (MWh)	Import (MWh)	Export (MWh)	Renewable (MWh)	Share of renewable	Emission (t/year)
<b>131 145 634</b>	<b>90 686 644</b>	<b>40 458 990</b>	<b>117 040 527</b>	<b>38 277 836</b>	<b>29,2</b>	<b>44 962 439</b>

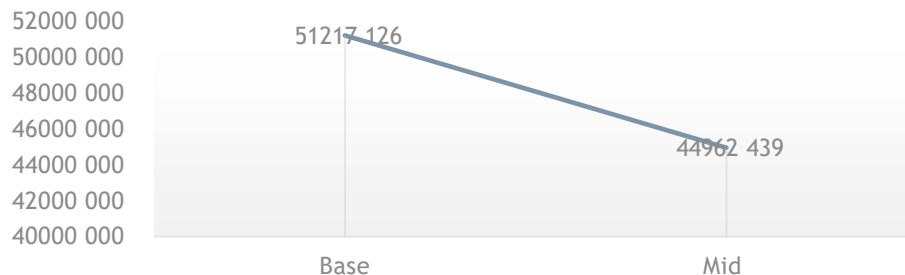
Primary energy consumption



Final energy consumption



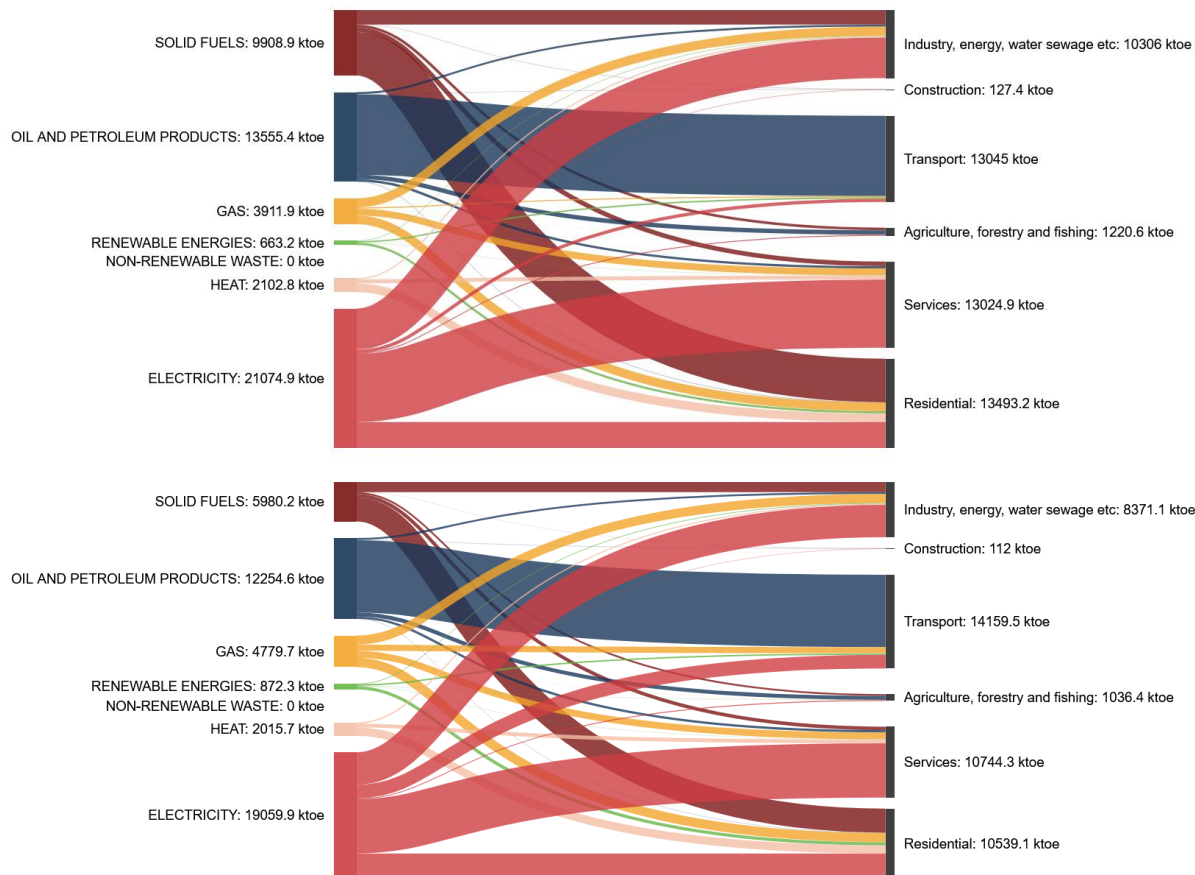
Emissions



Component	Costs 2030
Energy planning	7 Million €
EE in buildings	133 Million €
Sustainable transport	222 Million €
Electricity grid	1 500 Million €
DHN	444 Million €
<b>TOTAL</b>	<b>2 306 Million €</b>

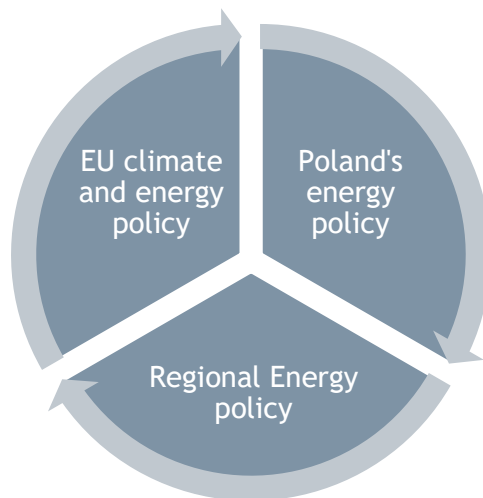


## GHG emission



## Challenges:

- changes in the legislation related to renewable energy sources;
- passive energy and spatial policy in municipalities;
- poor condition of power grids;
- social conflicts.....
- ....many others!



**Cooperation is key!**



# CONTACT DETAILS



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