EMP-E 2020: Modelling Climate Neutrality for the European Green Deal
8 Oct 2020

Focus Group 6 - How can energy modelling tools from H2020 projects contribute to National Energy and Climate Plans?

PROSPECT2030 | Regione Piemonte| Silvio De Nigris

Introduce Piemonte Region

Energy planning activities

PROSPECT2030

EMP-E

Energy Modelling Platform for Europe

EMP-E 2020

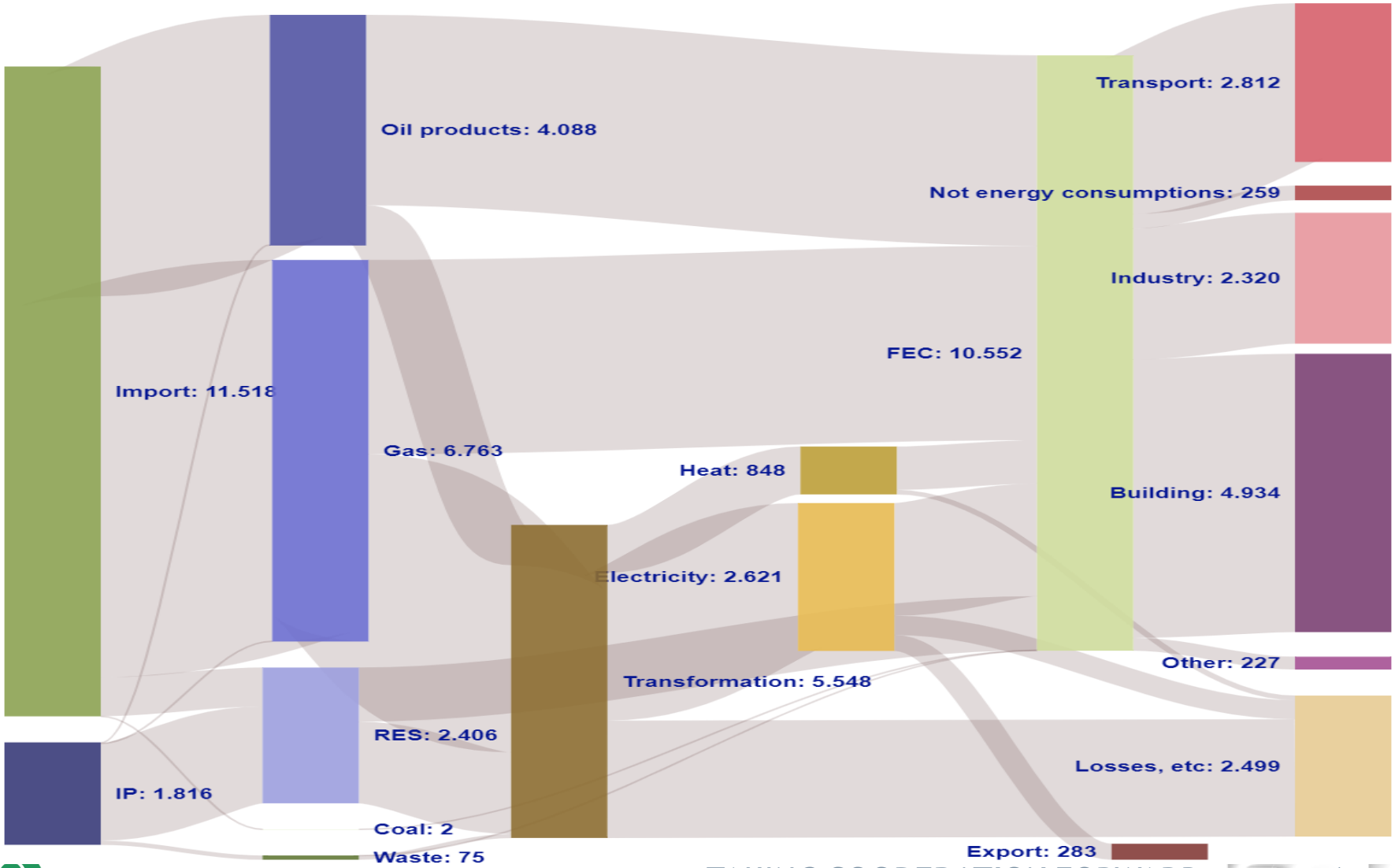
6th-8th October

Hosted in cooperation with the the European Commission

INTRODUCTION OF THE REGION

- About 4.5 M of inhabitants. The capital city (Torino) has less than 900.000 inhabitants
- Piemonte is the 5th Italian Region in terms of GDP (140G€/y)
- The economy is based on tertiary sector. Main industrial sectors are: mechanical, avio, ICT, agro-food industry.
- 43% of the territory is mountain area
- Administrative fragmaentation: 8 Provinces and about 1.200 Municipalities

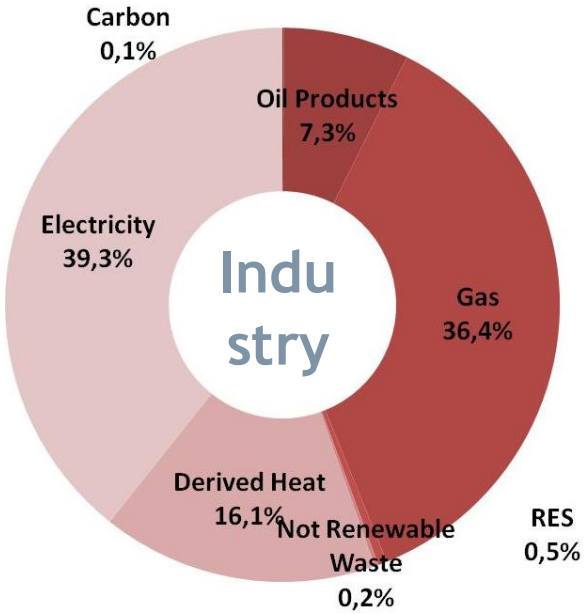
REGIONAL ENERGY SYSTEM

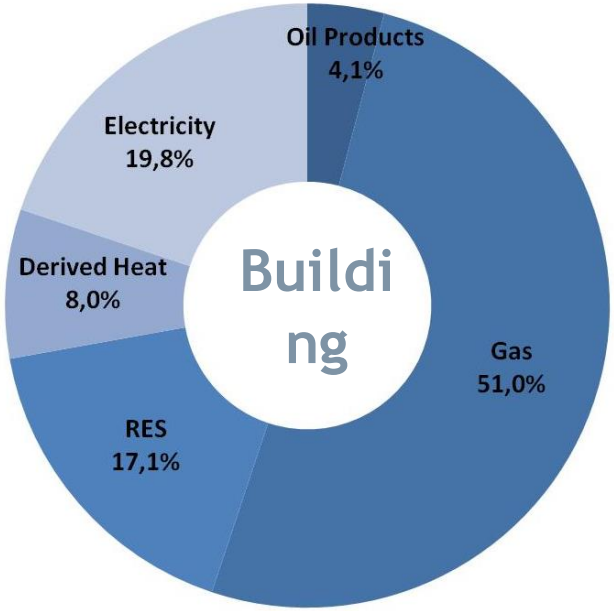


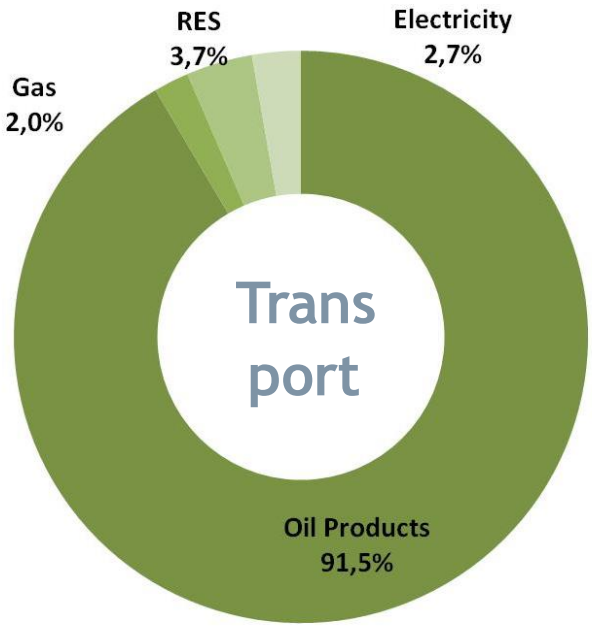
FINAL ENERGY CONSUMPTIONS

Interreg CENTRAL EUROPE
European Union European Regional Development Fund
PROSPECT2030

Final Energy Consumption in 2018







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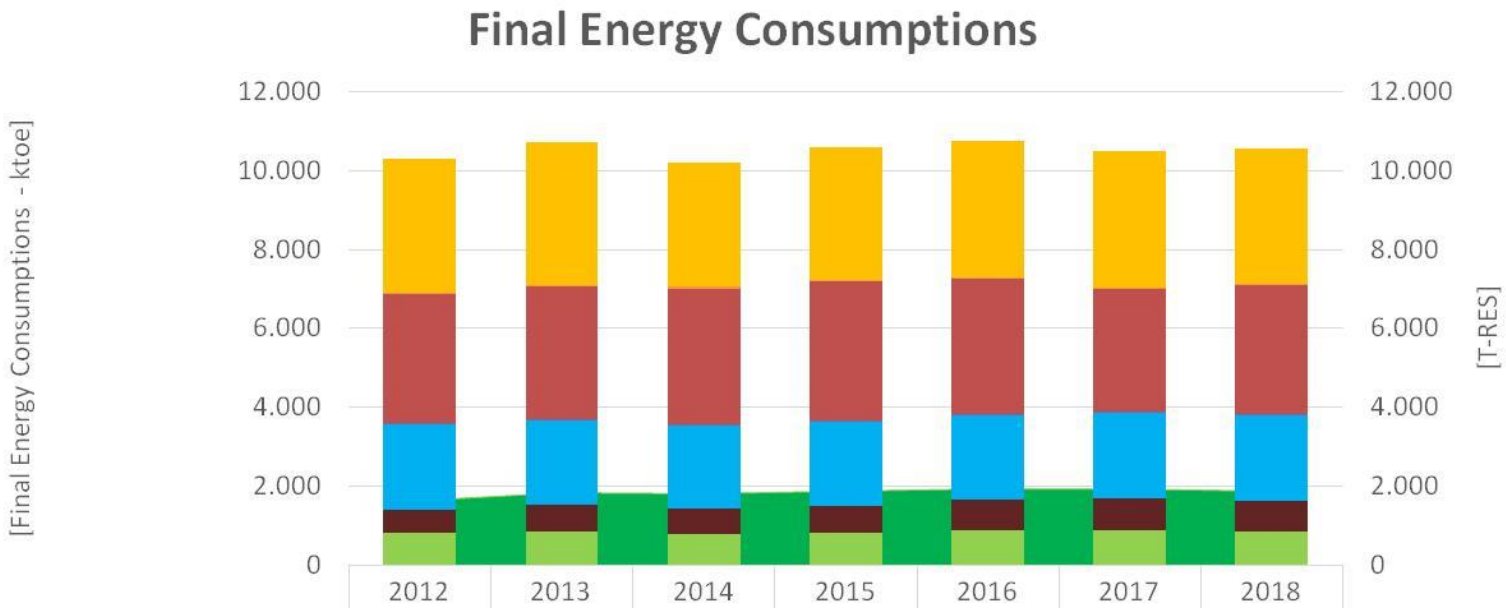
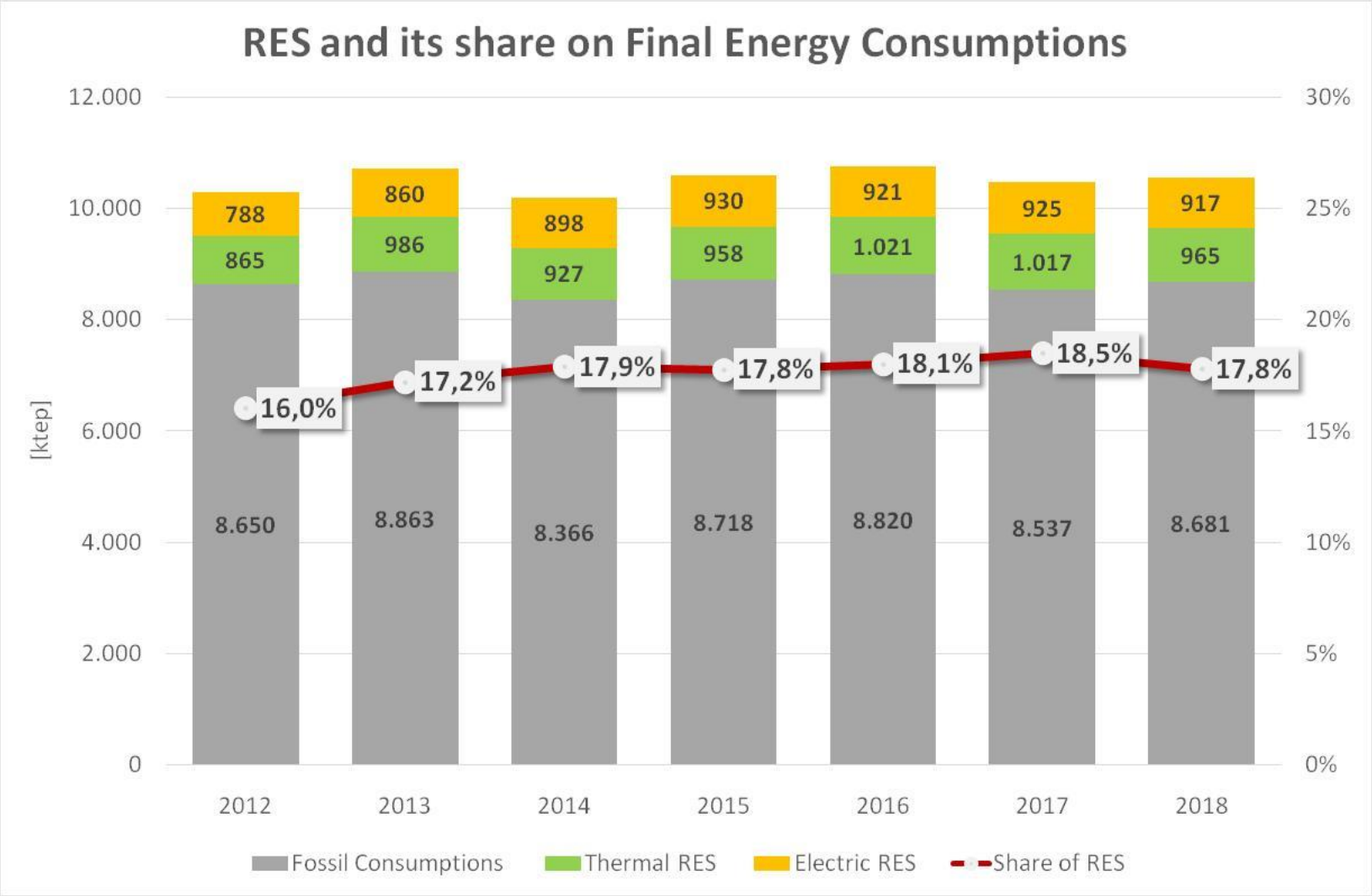
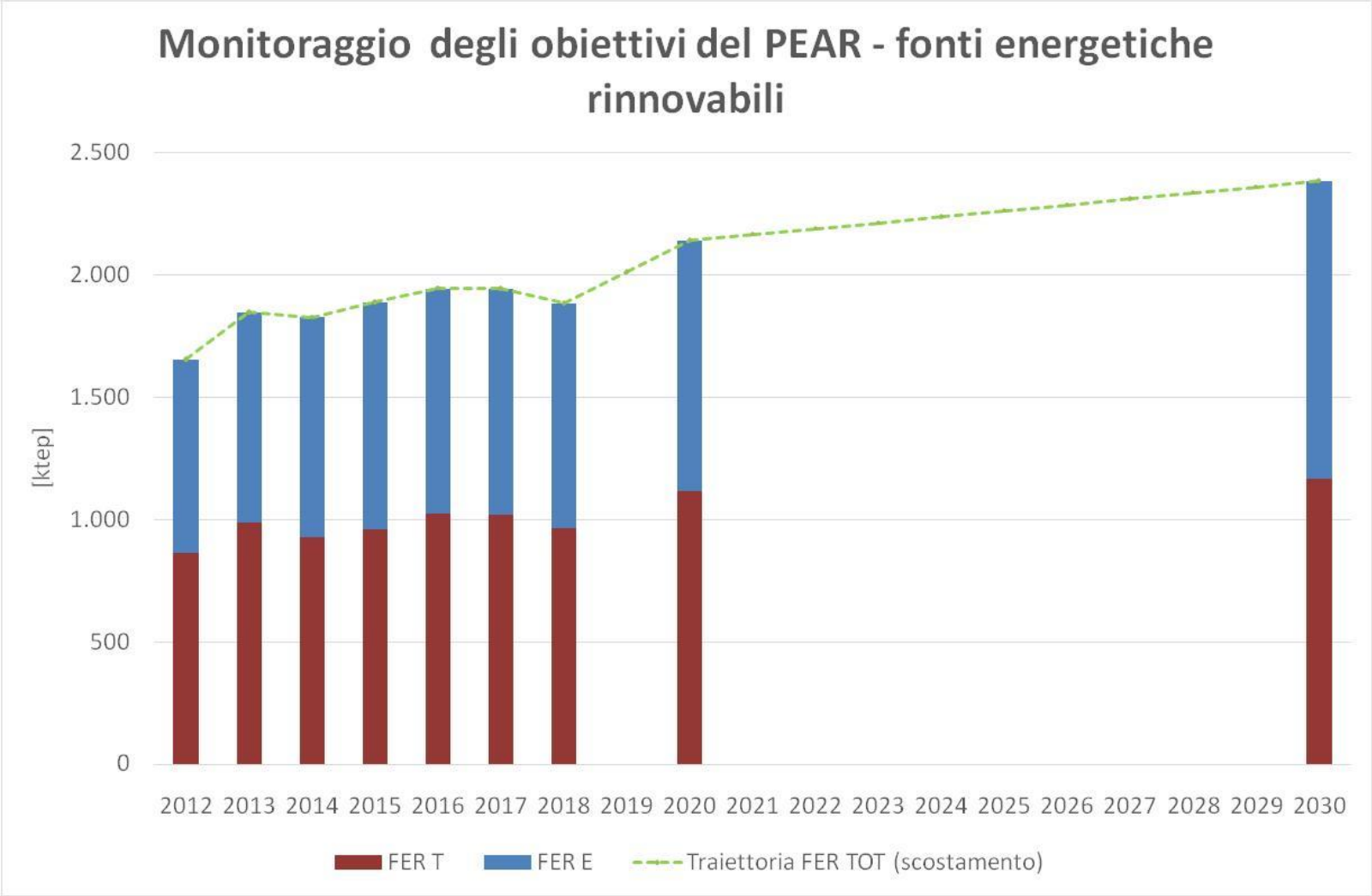


	2012	2013	2014	2015	2016	2017	2018
RES (Transport excluded)	1.653	1.846	1.825	1.888	1.943	1.941	1.882
Natural gas	3.415	3.597	3.138	3.367	3.458	3.441	3.429
Coal	29	19	42	20	4	2	2
Oil products	3.242	3.391	3.440	3.538	3.460	3.150	3.309
Not renewable waste	22	21	11	12	23	5	5
Electricity	2.203	2.136	2.123	2.151	2.168	2.193	2.184
Recovered heat	571	677	641	686	766	808	778
Thermal RES	822	870	797	831	884	880	856

RES IN FINAL ENERGY CONSUMPTIONS



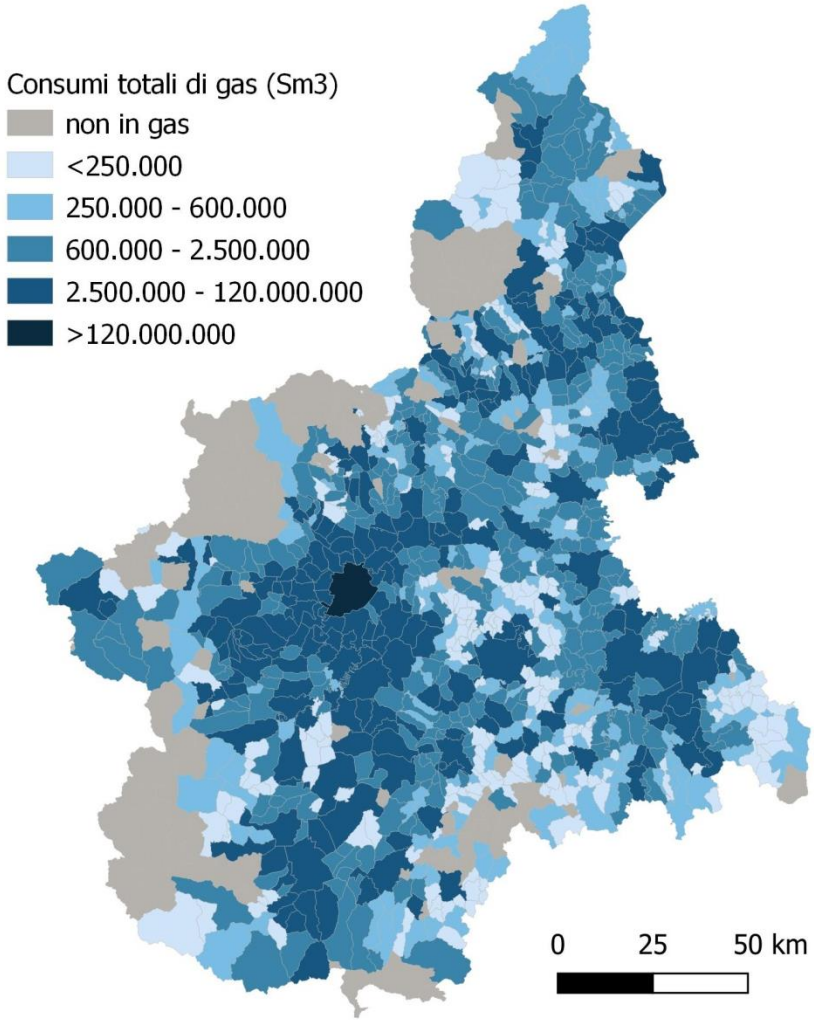
RES IN FINAL ENERGY CONSUMPTIONS

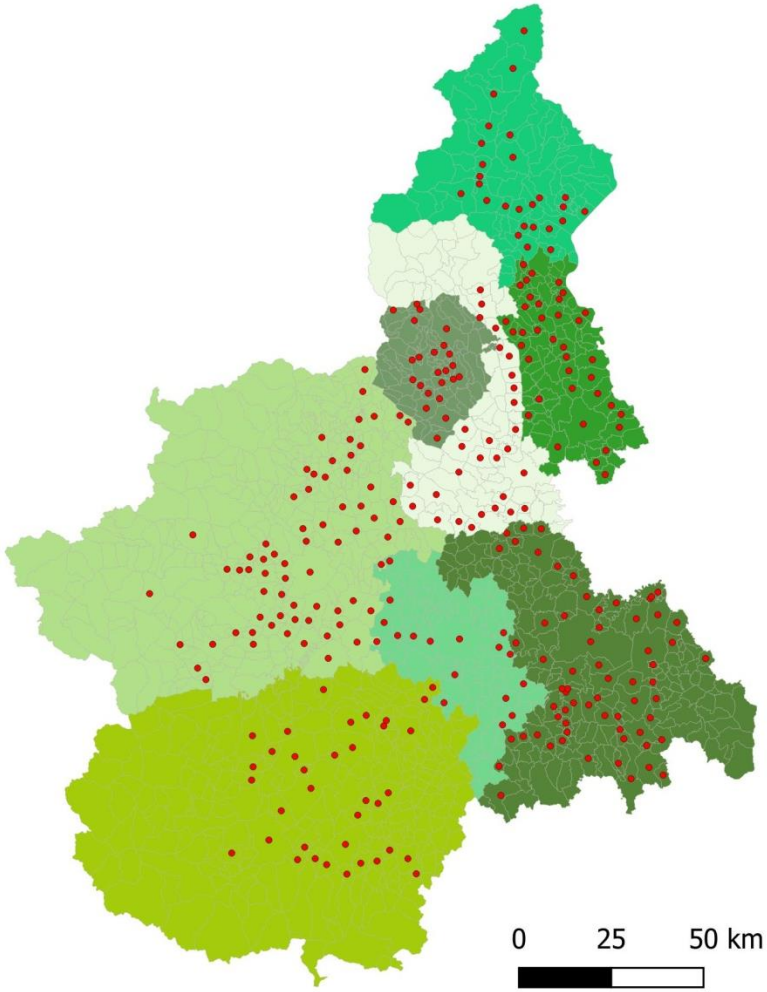


ENERGY PLANNING ACTIVITIES

- To build up an action plan in line with the green deal and the EU energy strategy
- To revise energy scenarios for 2030 and 2050, in line with the foreseen carbon neutrality target
- To map the area which are suitable to host RES installations
- To consolidate and boost the Energy Observatory Activities ongoing

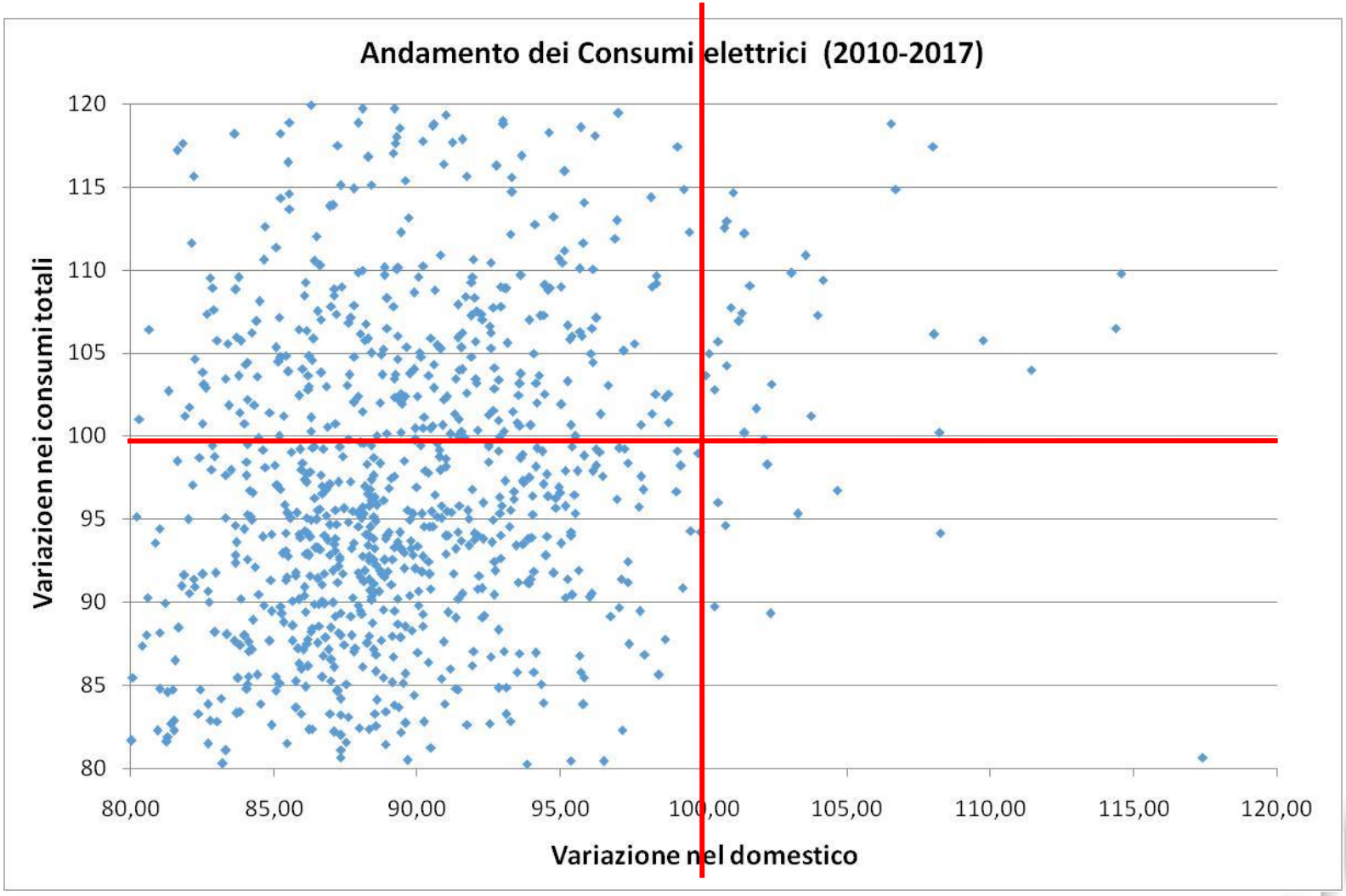
ENERGY DATA MAPPING





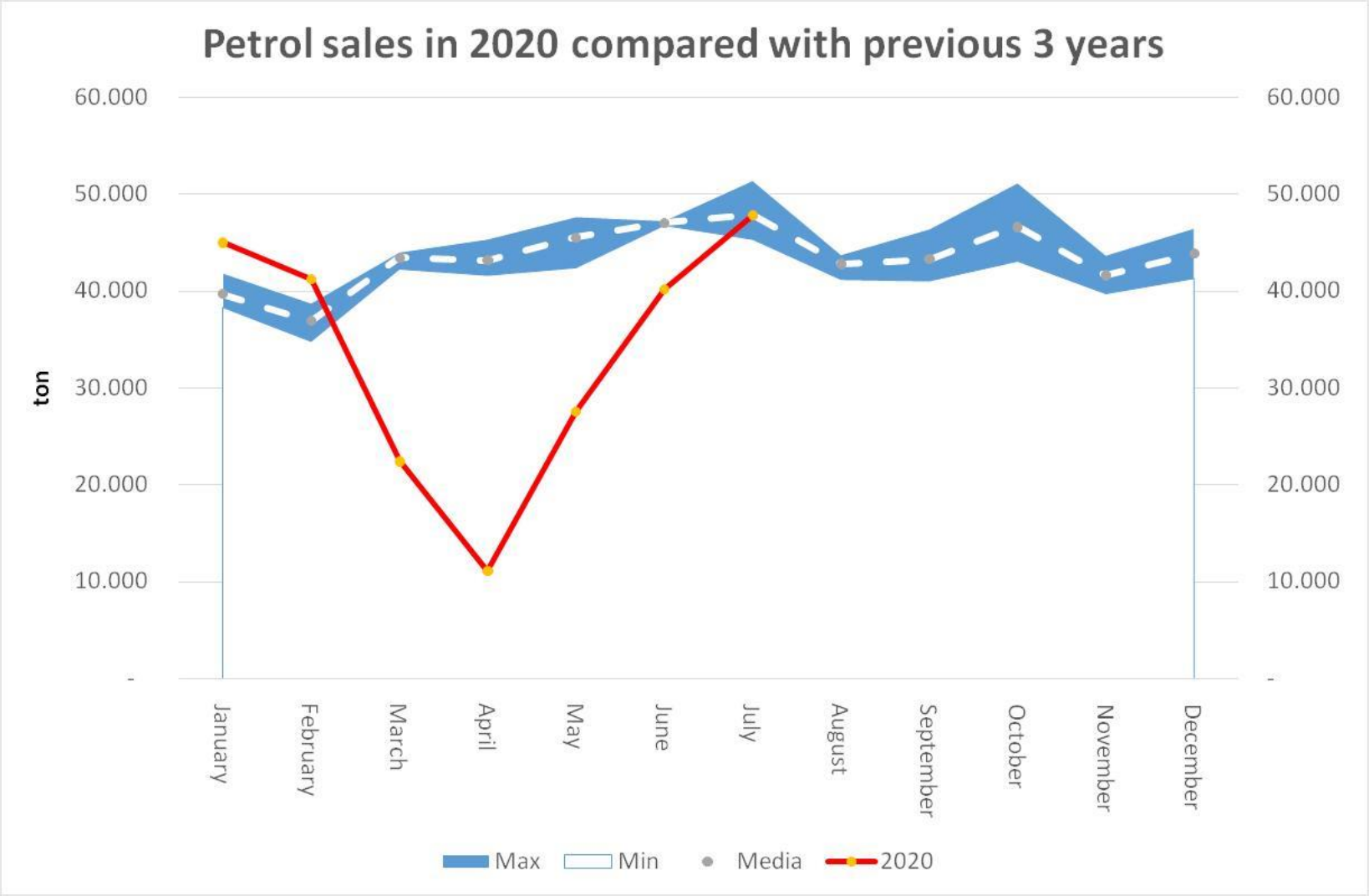
Source: elaboration by Regione Piemonte-Politecnico di Torino on gas distributors and SNAM Rete gas data

LOCAL ENERGY DATA



Source: elaboration by Regione Piemonte on electricity distributors

ENERGY DATA AND LOCK-DOWN



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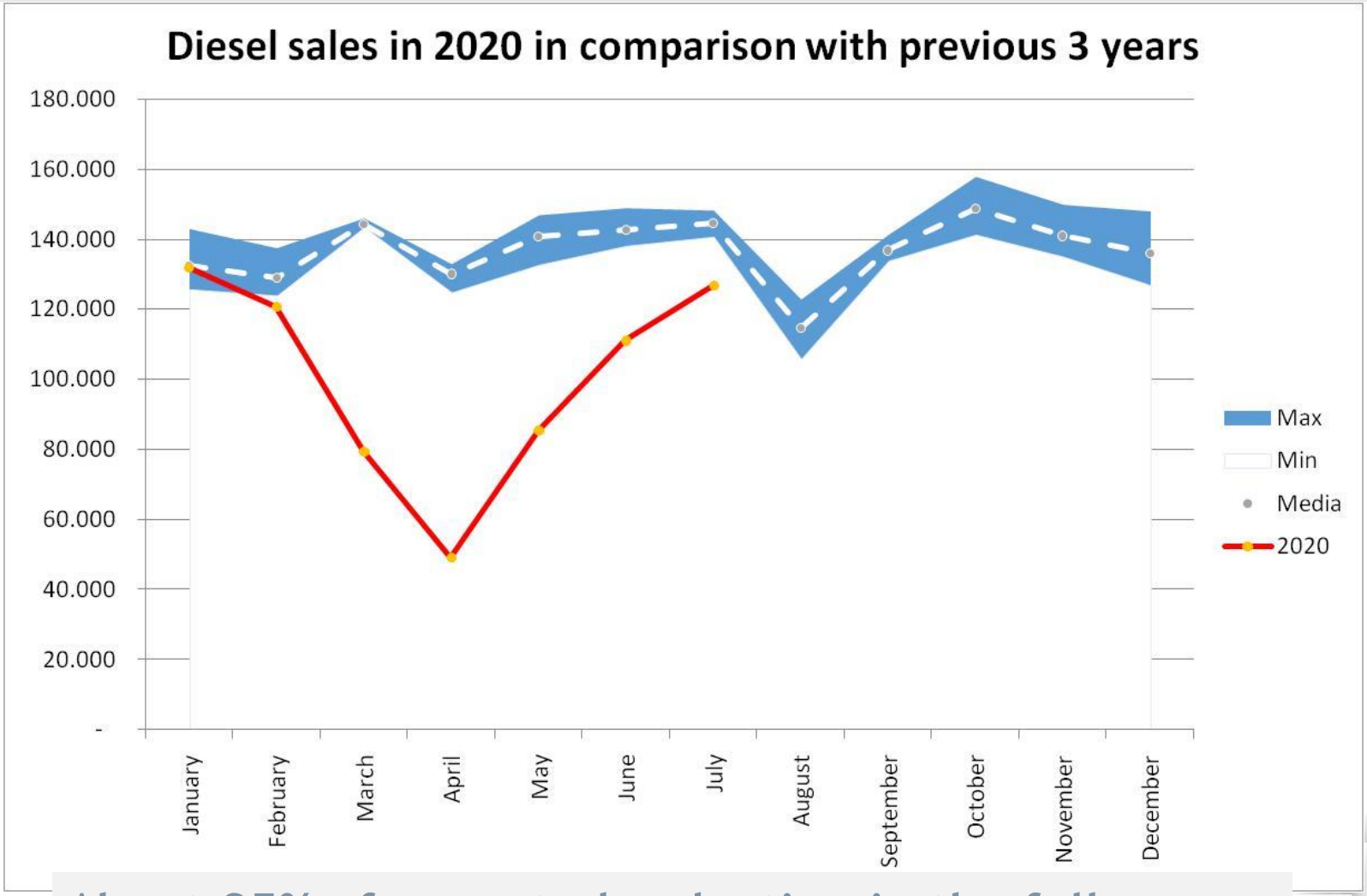

About 25% of expected reduction in the full year

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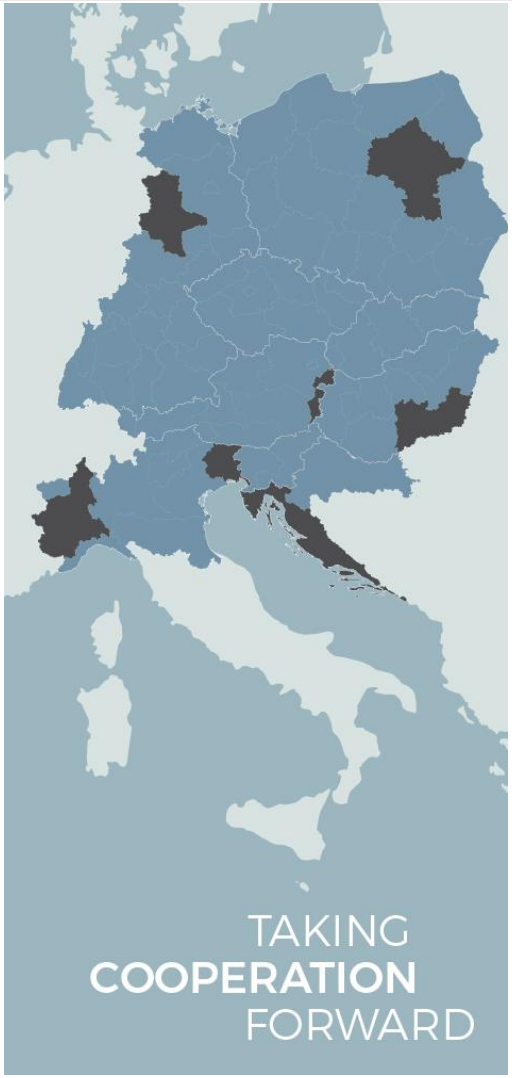
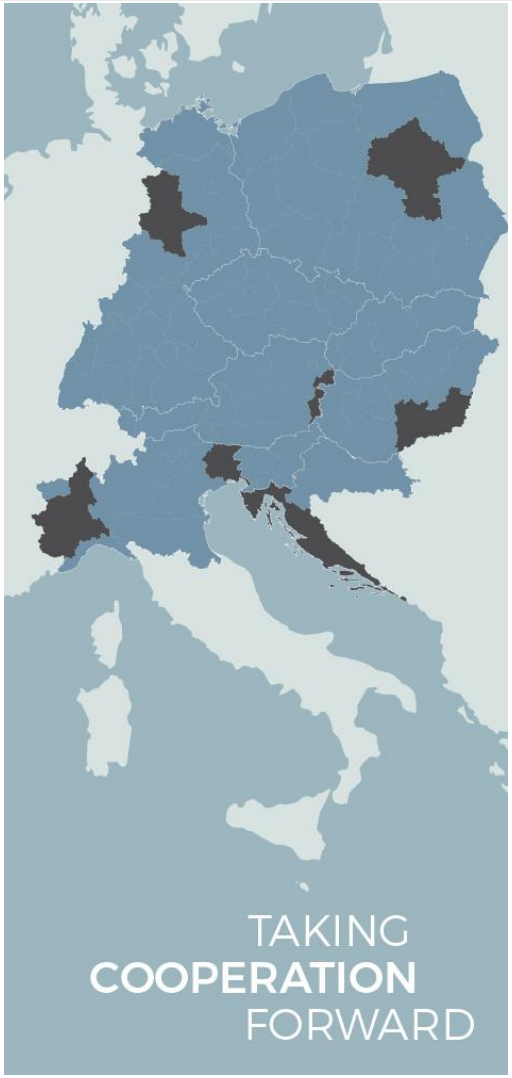
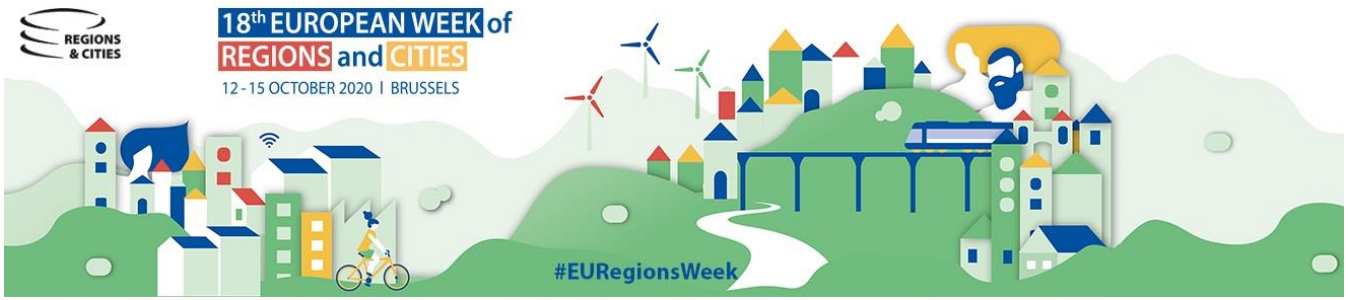


- Politecnico di Torino -Italy
- Mazovia Energy Agency -Poland
- Energy Institute Hrvoje Požar -Croatia
- Energy Management Agency of Friuli Venezia Giulia -Italy
- Autonomous Region Friuli Venezia Giulia -Italy
- University of Applied Sciences Magdeburg-Stendal -Germany
- Ministry of Environment, Energy Saxony-Anhalt -Germany
- European Center for Renewable Energy Güssing Ltd. -Austria
- AACM Central Europe Llc (AACM) -Hungary

PROSPECT2030



1. Draft 7 Sustainable Energy Action Plans for Central European Regions
2. Assess the ongoing use of public funds by each involved region and develop startegies for their improvement in the future
3. Develop training and mutual learning activities in the involved Regions and in central Europe

Europa > European Week of Regions and Cities >