



2050

Heat Roadmap Europe

A low-carbon heating and cooling strategy

Potential development of districts heating.

Italy - Veneto Region:
Experience of local district heating in
Province of Treviso Headquarter

Province of Treviso
Maurizio Tufaro

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Province of Treviso district heating



Chipped wood boilers



network H&C pipes



Cooling compressors



Cogenerator



Province's headquarter



Photovoltaic plant

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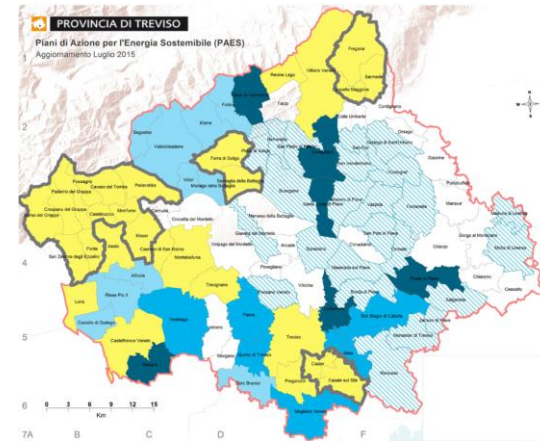
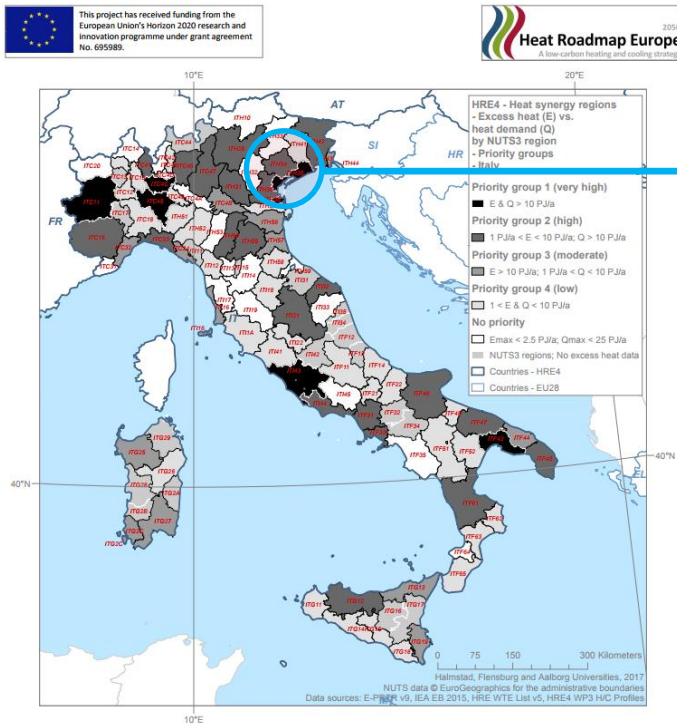


District Heating vs Conventional Systems (D.H. vs C.S. of Province headquarters)

	C.S. (hypotesis) Natural gas Boilers and chillers in each building Electricity from public network and FV	D.H. (real) Chipped wood boilers, biodiesel cogenerator, FV, hot-cold water network, chillers
Primary Energy consumption /Y	5,98 GW/h	4,90 GW/h
CO2 Emissions /Y	3270 tons	1504 tons
Installation costs	1.720.000 Euro	2.450.000 Euro
Operating costs /Y	460.000 Euro	309.000 Euro
Simple Pay back time: DH vs CS		5 years



Veneto Region-Province of Treviso High Potential for District Heating



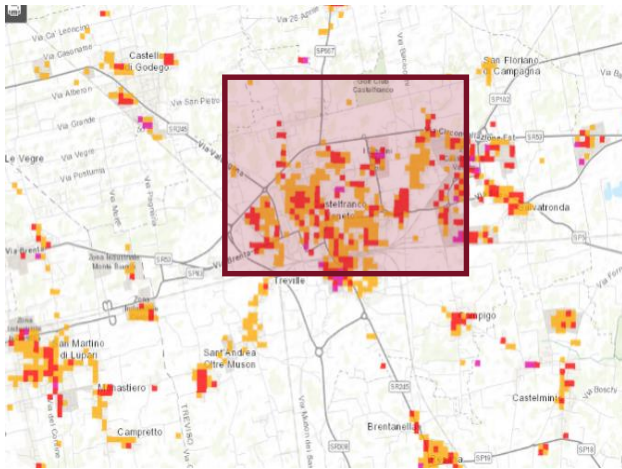
The Province of Treviso is a Covenant of Mayors and in this role boosts local administrators to adopt territorial strategies towards sustainable use of energy (DH, RES, Financial –social-technical Tools ect)

Map of Italy about excess and demand Heat. The darker area is the high potential of district heating (**Treviso is in the second shade of gray!**)

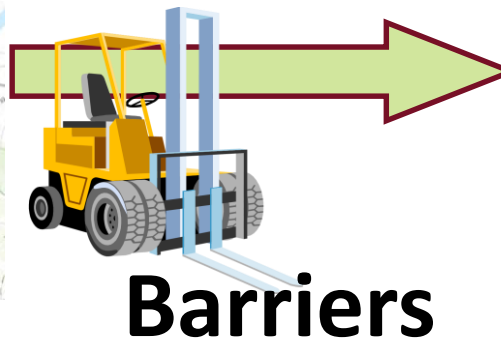


Overcoming barriers towards a sustainable use of energy

H.R.E. PETA Maps



Feasibility study of District Heating in Castelfranco Veneto - Treviso



Lack of knowledge/data : territory excess and demand of energy, availability of RES, political strategies , Tecnical and financial tools, typologies of energy contracts (and bankability).....





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Thank you for your attention!

mtufaro@provincia.treviso.it



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