Landscape and Climate Change
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EFFECT OF CLIMATE CHANGE ON THE LANDSCAPE AND ENERGY DEMAND IN **ALT EMPORDA'** ON 2050

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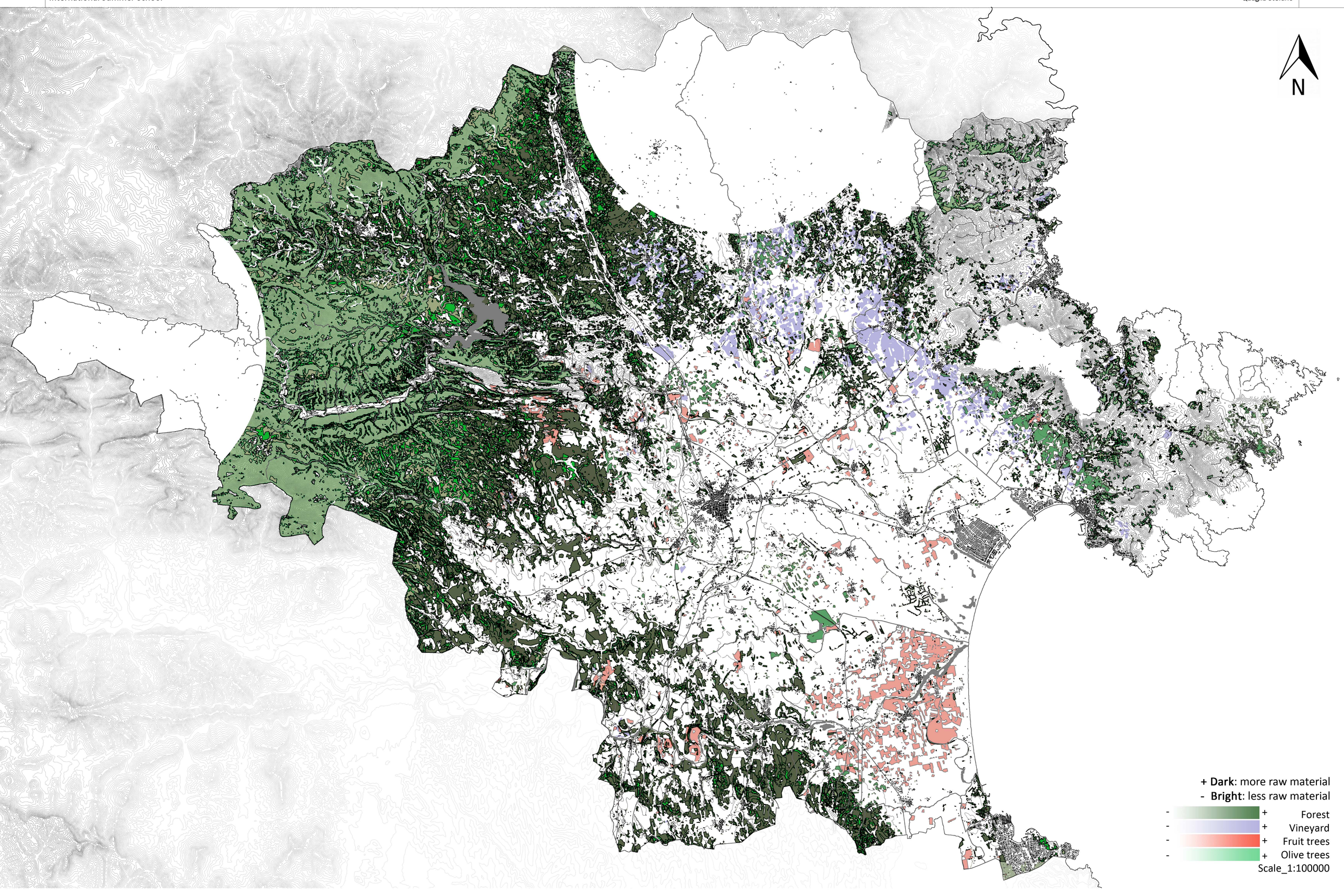


Scenario

Scenaries 1 - Low	Scenaries 2 - High
Population +14%	Population +40%
Tourists +20%	Tourists +30%
Medium precipitation -0,3%	Medium precipitation -3,5%
Medium temperature +3,6%	Medium temperature +4,8%
Total energy demand +14%	Total energy demand +84%

Studies to

Extract the matter for Biomass

	YES	NO
Forest	. Low Slope . High risk of Fire . Near Roads (better for Mechanical Extraction) . High Social use	. Not old forests/High ecological value . Not riparian forests . Not in Natural Reserve . Not dry stone walls
Vineyard	. Low Slope	- - -
Tree Plantations	. Low Slope	- - -
Olive	. Low Slope	- - -
Fruit Trees	. Low Slope	- - -
Urban trees	OK	- - -
Energy Crops	. In derelict lands	. Not affecting symbolic views . Not in Landscape singularities ("closes", dry stone landscapes) . Not in irrigated land . Not in Potential land for orchards

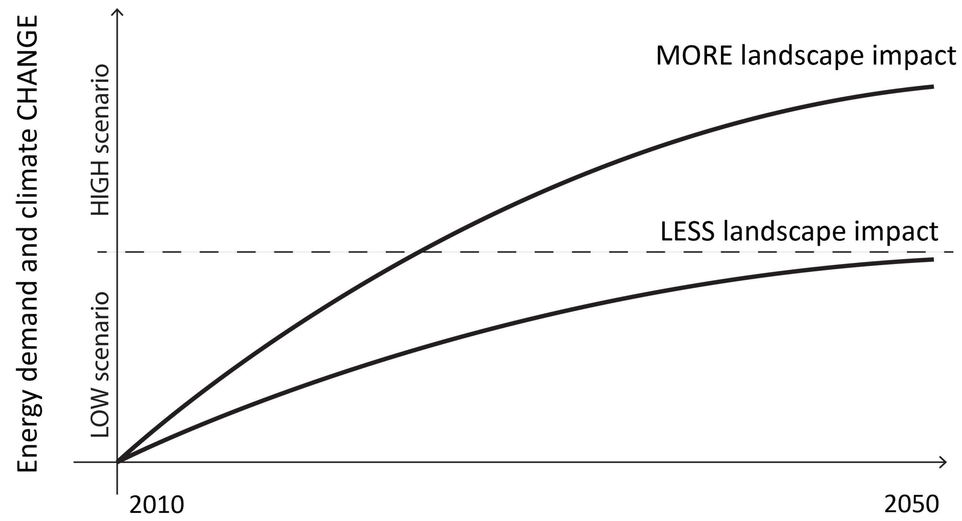
Locate the Facilities for Biomass

1 MAIN FACILITY

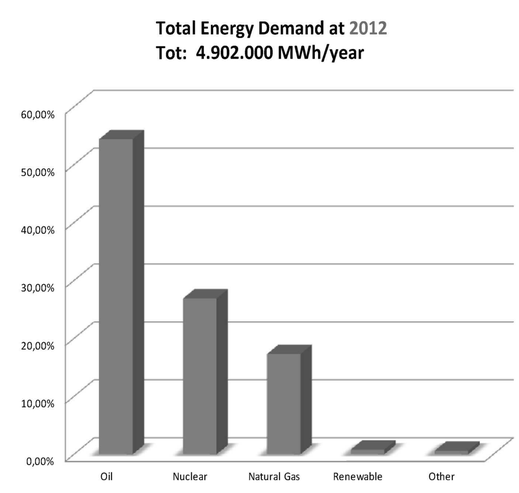
. Low visibility
. Equidistance/ Proximity to sources of Biomass — Visibility map, Tree lines, Land barrier - Hill, Not in Scenaries, Not in MountainTops, Not near Heritage
. Proximity to city and/or industrial area for the heat use
. Annex to water treatment Plant
. Reuse Buildings
. Near Big Power Line and Transformation Station — Heritage, Farms, Factories, Store Houses

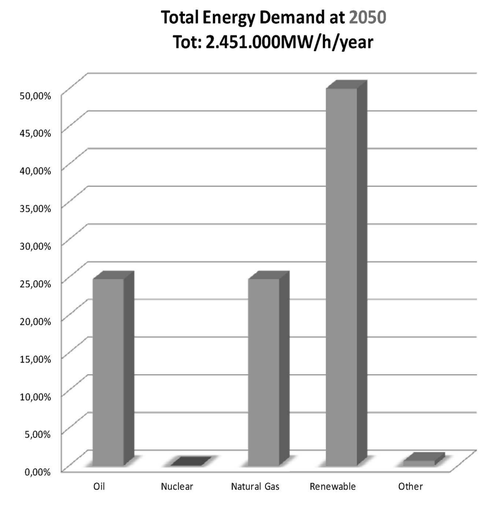
SEVERAL SMALL FACILITIES

. Distributed in Public Buildings (schools, city walls, Hospitals, etc.)
. Rural development - Complement to Farming

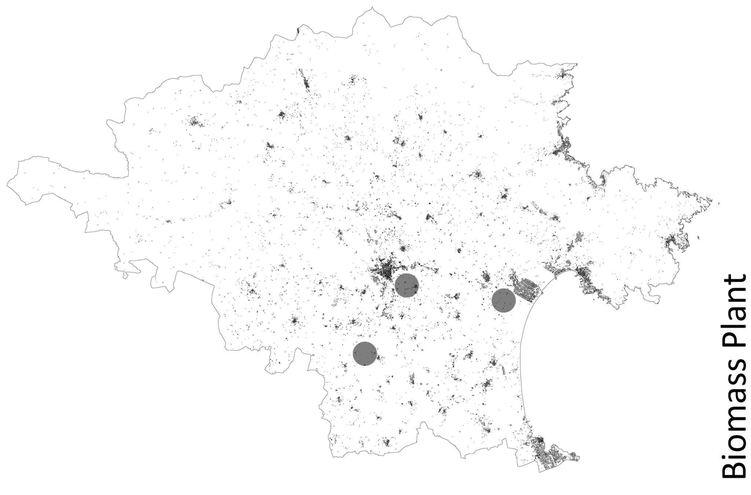


+ 50% energy saving

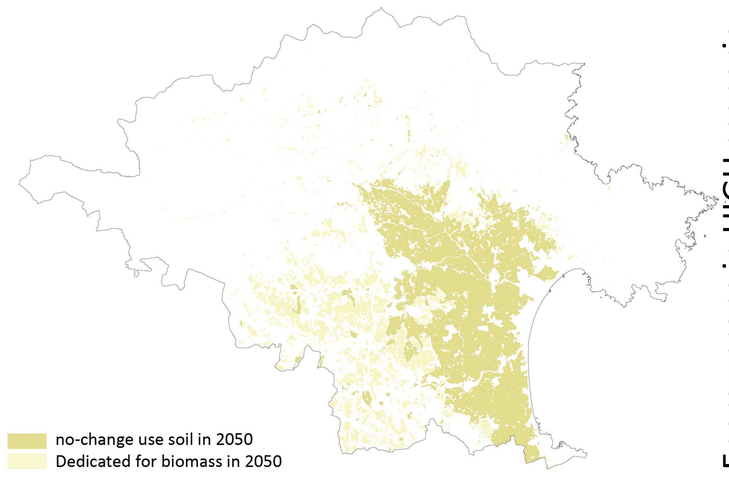




Exclusion/protected Area



Biomass Plant



Energy crops in HIGH scenario