Salina Aeolian Islands, Italy



Salina in a nutshell

The second largest of the Aeolian islands



Located off the Sicilian North-East coast A volcanic island with high biodiversity Declared World Heritage in 2000

Population increases by 210% during the summer



Permanent population: 2,600 Peak during the summer months: 8,000

Well connected to mainland, Calabria and Sicily



Both by boat and hydrofoil

- · 70 km from Milazzo (Sicily)
- 1.5 h by hydrofoil

Tourism is the main economic activity



Although it used to be local wine and caper production

Stakeholder mapping

Civil society

ERIC project
(Local purchasing group)

Marevivo

(Non-profit organisation for environmental protection)

Business sector

Salina Isola Verde
(Association of hoteliers and tour operators)
Agricultural & wine company
Capper Association

Liberty Lines, Siremar, Caronte, Italian General Navigation (Shipping company)

Marnavi (Sea freight company)

Enel (Electricity production company)

Public sector

Municipalities:

- Santa Marina SalinaMalfa
- Leni

Energy Dept. of Sicily region

National UNESCO Heritage Foundation for Sicily

Consortium for inter-municipal transport (CITIS)

Academia

ENEA

Italian National Agency for new technologies, energy and sustainable development

INVG

National Institute of Geophysics and Volcanology

Department of Engineering, Department of Agricultural, Food and Forestry Sciences University of Palermo

Nicola Giordano
Institute of Advanced Technologies

Energy System Description

Final I	Energy Consumption	on in 2018 [MWh]	CO ₂ [tonne]
Electricity		8,160	3,754
Heating	I control	2,119	497
Transport to & from		61,028	16,294
Transport on Island		13,154	3,389
Other	To the second second	1,284	343
	TOTAL:	85,745	24,277

Electricity

Non-interconnected

Primary energy consumption in 2018: 26,322 MWh

- 2 Diesel power plants:
- Santa Marina Salina 5.1 MW
- Malfa 3.1 MW

Heating

Households' heating and hot water is mostly generated with LPG

Renewable heating has been recently installed:

- 14 m² of solar thermal
- 17 kW biomass heating (pellets)

Transport on the island

5 Public transport minibuses

1,300 Private vehicles that consist mostly of cars and motorcycles powered by gasoline

Transport to and from the island

Hydrofoils and ferries are powered by diesel engines

Fresh water is transported by tankers, representing 5% of the energy consumed to and from the island



Vision

Salina is a sustainable island with an energy generation system based on renewables. Transport is decarbonised and all buildings are energy efficient. The local community uses resources efficiently and the island's natural features are respected.



