Sifnos in a nutshell

Located in the South Aegean Sea
- 25% of the territory belongs to the Natura 2000 European Network of Nature Protection

Population increases by 510% during the summer
- Permanent population: 2,625
- Peak during the summer months: 16,000

Connected to mainland and to Cyclades Islands
- By ferries
  - 130 km from Piraeus
  - 3-5 h

Tourism is the main economic activity
- In addition to pottery, agriculture, farming, fishing & beekeeping

Energy System Description

Final Energy Consumption in 2018

<table>
<thead>
<tr>
<th></th>
<th>[MWh]</th>
<th>CO₂ [tonne]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity</td>
<td>18,704</td>
<td>4,994</td>
</tr>
<tr>
<td>Heating</td>
<td>1,379</td>
<td>201</td>
</tr>
<tr>
<td>Transport to &amp; from</td>
<td>529,733</td>
<td>141,439</td>
</tr>
<tr>
<td>Transport on Island</td>
<td>17,281</td>
<td>4,446</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>567,097</td>
<td>151,080</td>
</tr>
</tbody>
</table>

Electricity
Non-interconnected.
Electricity mostly generated by diesel engines.
Installed roof mounted solar photovoltaic: 335 kW.
Since March 2019, two wind turbines with a total capacity of 1.26 MW are operational.

Heating
Households and hotels’ heating and hot water mostly produced with heating oil.

Transport on the island
Vehicles for road transport are mainly cars, buses and motorcycles.
2 Public and 3 privately-owned buses.

Transport to and from the island
During high season, around 25-30 ferries travel to & from the island per week.
During winter they are reduced to 10.
In 2019, a total of 1,966 ferries arrived to Sifnos.

Stakeholder mapping

Civil society
- Sifnos Island Cooperative

Business sector
- Public Power Corporation
- Association of Professionals & Merchants
- Rental House Association

Public sector
- Sifnos Municipality Board
- Greek Distribution System Operator (HEDNO)
- Greek Energy Regulatory Authority (RAE)

Academia
- Kindergarten/primary Education
- Gymnasium-Lyceum of Sifnos
- Technical Educational Institute of Crete (TEIC)
Vision

Sifnos is energy independent with a 100% renewable energy generation system. Sifnos’ inhabitants and private investors partly own the renewable installations. Transport is decarbonised. The island community and economy are protected and flourishing.

Transition pathways

Sifnos Hybrid Station Project
Currently being reviewed by the Greek Energy Regulatory Authority

Solar Thermal
Heat pumps

Wind
Solar photovoltaic

Households and consumers
Renovating and retrofitting buildings

Road transport
Electrification public transport
Electric private vehicles

Hydrogen storage
Pumped hydro storage
Electricity storage

Maritime transport
Hydrogen ferries

Raise awareness among citizens
Information campaigns on rational use of electricity

Transition governance

Sifnos Island Cooperative
Sifnos municipality

Coordinators

Development
Public Power Corporation

Regulation
Greek Energy Regulatory Authority

Technical solutions evaluation
Technical Educational Institute of Crete

Clean Energy Transition

Road Transport electrification
CIVNET
National Public Authorities

Dissemination
Sifnos Island Cooperative
Primary and secondary schools