

GR-eco Island Chalki

National Initiative GR-eco Islands

Chalki becomes the first GR-eco island of our country and becomes a model island of energy transition.

The GR-eco Islands is a strategic initiative of the Greek Government aiming to transform the Greek islands into models of green economy, energy autonomy, digital innovation and ecological mobility. It includes actions such as the increased use of Renewable Energy Sources, the creation of digital infrastructure, the promotion of energy efficiency, the sustainable management of waste and water, the e-mobility and electrification of transport, the green transformation of agriculture and tourism, and the development of port and other infrastructures, through targeted interventions and customized programs of the Ministry of Environment and Energy and the co-competent Ministries, under the "umbrella" of the National Plan for Energy and Climate.

Chalki in the era of sustainability and energy transition

The choice of Chalki as the first GR-eco Island has a symbolic character, as it is an island in the barren line of the Southeastern Aegean, part of the Dodecanese, which holds significant geopolitical interest in the wider region. In addition, it aspires to function as a model for the energy transition of the Greek islands.

The local community is located at the forefront of the energy transition. The establishment of the Energy Community "ChalkiON", in which the Municipality of Chalki and all the inhabitants of the island can become members and through the Virtual Net Metering process can connect remotely the PV power generator system with its members' meters, is the first case of such a project in Greece. After the collection of data through the electricity bills of Chalki's inhabitants, the needs of the island calculated to 1.700MWh per year on average, which makes the installation of the 1MW photovoltaic park able to qualify Chalki as the First Energy Autonomous Island in Greece.

The benefits for the environment and the inhabitants of Chalki



Savings of **€180.000 – €250.000 per year**

55% electricity bill reduction for residents, business and Municipality of Chalki (concerns the competitive energy billing part of the provider)



Savings of **1.800 tons of CO₂**

Savings of €215.000 per year for Services of General Interest due to the replacement of thermal production units



€120.000 per year due to non-carbon emission respectively cost = €60/ tn CO₂

- *"ChalkiON" is the 1st Energy Community owning a PV station in operation in a non-interconnected Greek island, with the participation of the local authorities.*
- *The design of Chalki's initiative covers the energy needs of the island.*
- *Chalki's inhabitants, are able to live in a green island supported by today's technologies.*
- *The Virtual Net Metering is the most appropriate method for them members of the "ChalkiON" to offset the energy produced by the PV with the actual consumptions of their electricity bills.*
- *Electricity supply charges reach almost to zero. The inhabitants pay only the regulated charges. The competitive part of the bills is funded by the sun.*