

About Energicentrum Gotland

Energicentrum Gotland enables people and businesses on Gotland to transit to an efficient and sustainable energy system. Our mission is to raise the general level of knowledge and at the same time accelerate the energy transition. We plan activities, initiatives and projects aiming for a fully renewable energy system by 2040. We are one of Sweden's 16 regional energy offices, and collaboration with the other offices is enabled through membership of Energikontoren Sverige. Energicentrum Gotland is 100 % owned by the Region of Gotland.

We are able to channel the work and create commitment through active and up-to-date communication towards the island's business community and the general public. We put our efforts where we are most efficient. Most importantly, we support, whether you are a private individual, a large technology company or an EU official. The municipal Energy and Climate Advisory service is part of the Energy Centre's organisation and free advice is part of our basic mission.

We create a broad base for our work through our steering committee that includes representatives from the whole Gotland community. The steering committee will support activities and ensure that the Energy Centre focuses its resources the best way possible. The group consists of representatives from the following organisations and citizens:

GEAB – Energy company

GUBIS – Umbrella organization for Gotland's development corporations (citizen-based initiatives)

LRF – national farmer's organisation with local representation

Länsstyrelsen – The county administrative board

Medborgarstol – Member applies from the public for a one-year mandate

Region Gotland – Regional development responsibilities and municipal services

Tillväxt Gotland – Business organisation that hosts 800 companies on Gotland

Uppsala Universitet Campus Gotland – University

Energimyndigheten – Swedish Energy Agency

Projects

There is an ongoing development to drive the energy transition on Gotland within a wide range of areas. Everything from hydrogen installations for both storage- and fuel purposes, electro- and biofuel-production, electrification systems for marine- and transport sector, to AI-technologies to support behavioral based applications in the energy system, energy infrastructure for electric aviation and energy communities. We are also evaluating a unique technology for inductive charging within the existing road network.

Given the changes that the energy transition brings to society we also challenge regulations and structures that may need revision to accommodate this.

To support the activities on the island, Energicentrum Gotland serves as a hub for information and co-ordination, whereas many stakeholders across society carry out the development.

Why Gotland?

Gotland has the right conditions to turn technical innovation into practice. The population is used to take matters into their own hands, and it has just right natural conditions for weather-dependent energy production. Being an island, the natural boundaries are effective in driving development in the energy transition on the island.

Having solid wind resources, Gotland has been a pioneer in north European wind power since the 1980s. With solar irradiation at the level of some Mediterranean countries, this power source is growing steadily. In addition to renewable power production in itself, Energicentrum has set a target in enabling 50 energy communities on the island by 2040. Some of which are under development now. This is a vital part of the electrification strategy in achieving a robust and flexible energy system regionally.

Gotland leads the way in future energy transition

The Swedish Energy Agency is commissioned by the government to enable Gotland to pioneer the transition to a sustainable energy system. In the development strategy 'Our Gotland - 2040', the Gotland Region has set itself a target of a renewable electricity system already by 2040.

By 2045, Sweden aims to have zero greenhouse gas emissions. Emissions from activities within Sweden's borders must then be at least 85% lower than they were in 1990. This policy has been established by the Swedish Parliament.

The key to a successful transition lies in close and long-term cooperation between all those who are active and work on Gotland; anyone from visitors, permanent and seasonal residents, associations and companies to public organisations. There is a roadmap for the work on how to strengthen Gotland's capacity to reach the emission targets earlier than the rest of Sweden.

The energy transition - we are pioneers

Gotland intends to lead the way in the energy transition. Gotland as a whole has been an early pioneer in the field of renewable energy, and today half of the energy consumption is produced from renewable sources on the island. The goal now is a fully renewable system by 2040. Gotland's island status makes it well suited as a place to test new solutions that can then be replicated and scaled up in the rest of Sweden and the EU. There is a strong political will behind this ambition, we have a first-class campus with energy as one important focus area, and a population and business community characterized by action. This gives us the basic conditions we need.

Part of Gotland's development strategy

In 2021, Gotland adopted a new development strategy that gives us the direction and goals for the future. Linked to this, a program of implementation is being developed that reaches across the whole of Gotland society and ensures that we put action behind our goals. The establishment of Energicentrum Gotland is part of that implementation plan and capacity is now being built both in the private- and public sector to reach the goal.

Gotland's development strategy

Development strategy developed by Region Gotland.

Energy and climate strategy for Gotland

The County Administrative Board of Gotland has adopted an energy and climate strategy - Together towards 2030.

Gotland - an Energy Pilot

The Swedish government has selected Gotland as Energy Pilot and therefore given the Swedish Energy Agency this ongoing assignment. The aim is to establish Gotland as a place where national forces come together to accelerate the testing of different solutions that can then be evaluated and hopefully implemented also in the rest of the country. Read more about the Swedish Energy Agency's roadmap further down this page.

Our way forward

With so many projects on the horizon, we need to continuously forge partnerships with the outside world to ensure that skills, technology and capital are made available to Gotland - collaborating is how we make these plans a reality.

Gotland is also a so-called Living Lab within the energy transition, which means that it is ready to receive and cooperate with outside developers that wants to test new technologies, create collaborations in cutting-edge projects and invest in modern energy infrastructure. Welcome to Gotland - an island that is not only stunningly beautiful but where energy innovation really is a part of life. This is where the future grows!

Energy Pilot Gotland - Mission of the Swedish Energy Agency

By 2045, Sweden shall have reached the goal of producing zero greenhouse gas emissions. The Swedish Energy Agency has been commissioned by the government to enable Gotland to be a pilot area that leads the way in the transition to a sustainable energy system.

A roadmap, Energipilot Gotland, has been drawn up for the work and the implementation of the roadmap will strengthen Gotland's capacity to reach the targets earlier than the rest of Sweden.

Proposed actions

The work within Energy Pilot Gotland is divided into seven sub-areas. The establishment of Energicentrum Gotland is part of the sub-area *Lokal förankring och kapacitet* (Local empowerment and capacity). The status of each task can be seen in the *Rapportering Energipilot 2020*-report.