

Renewable energy report Ameland

Introduction

As you know, the city councils of the West Frisian Islands in 2007 the ambition expressed in 2020 to be self-sufficient in the field of energy and water. This is endorsed by taking five Council decisions in the five city councils of the Wadden Islands. Meanwhile, there are already a number of projects carried out to that target. In addition, much remains to be done in a relatively short period. In addition to cooperation of the Frisian Islands in the area of sustainability, we also have our own municipal programme in the field of sustainable energy in which the partners of the Covenant Durable Ameland play a prominent role.

2018 annual report

In 2018 are a number of projects and activities in the field of sustainable energy in motion and some have been completed. Which are reflected in the annual report.

Covenant Durable Ameland

Three new partners in 2017 (TNO, EnTranCe and Liander) affiliated with Durable Ameland and they have along with the current Covenant partners (Gasterra, took, Eneco, Philips and municipality of Ameland) in New Covenant Durable Ameland 2.0 signed. Lay in the first two Covenants the emphasis on Ameland as a showcase for innovative sustainable technologies as first on Ameland in the practice test, in the Covenant signed in June, the emphasis is on 15 years ahead with the energy transition on Ameland. So what should be achieved nationwide in 2050 2035 on Ameland, you can already see.

The Steering Committee of the DA has meets three times in 2018. The communication group four times and the project group six times "life" and in addition every Friday by telephone.

Commissioned by the Steering Committee of the Covenant DA in 2018 three extreme scenarios for future energy management passed on to understand the transition on Ameland. These were: all-electric, extra wad cable and four fuel cells. The exploration of the three extremes are used to translate into possible options (nine in total) who, on the basis of legal, social acceptability, financial and technical possibilities. In June, the Steering Committee selected the option with maximum flexibility, Smart network and without lock-ins. is chosen to four projects that always fit to nominate. These are: fuel cell heating network in Small waters, and Digester with PV and hydrogen in Ballumerbocht, by considering electricity grid Ameland and saving of energy demand in the built environment. The four projects are now appointed the next few years developed into project plan with business case and time planning.

Electrification TOOK-location

The municipality has done a request at the Empire in the context of the Crisis – and herstellwet to the electrification of the location and TOOK the opportunities that this offers to our sustainability ambition. This is processed in a General administrative order issued by the Minister in december 2018. This means that we should experiment with energy solutions that are actually not within the existing frameworks of the law. This runs until 2022.

Sustainable West Frisian

One of the themes in which the five West Frisian Islands work together is renewable energy. In addition to knowledge exchange is, in particular, by the four Frisian Islands together to built projects. The province has grant € 200,000,- for 2017 and 2018 for sustainable energy developments on the four Frisian Islands if we also invested € 200,000 our self. This last happened on the basis of which the County has granted a subsidy decision making we have €400,000 available for renewable energy projects on the four Frisian Islands.

In 2018, there are no present the portfolio holders sustainability of the West Frisian Islands. The project group has met five times Sustainable Wadden.

Provincial

The province of Friesland had multiple initiatives. Thus, the province equal to the energy region Friesland. Under the climate agreement should the development take place in the regions. For this are energy regions appointed. That energy regions should draw up a regional energy Strategy for their region. Of the Frisian were present in 2018 four administrative region Energy (on behalf of the Frisian Islands is Mayor of Ghent in it) and six official. In addition, once a quarter found the Ministerial Climate

Consultation place and there are some meetings of the Heat platform North Netherlands. The latter is the precursor for the heat vision by district by municipality for 1 January 2022.

Projects in theme

Lighting

Lighting plan

With Covenant partner Philips is in 2017 started with running the lighting plan Ameland. The purpose of the plan is to the outside area as dark as possible and where lighting is needed, as far as possible to fit into the natural environment (green and if there are people). In the outdoor area is all lighting now bird friendly green LED lighting and in the villages, the 'distant-controlled' smart energy-efficient led lights on. On replacing the historical village lighting, the City Council in september 2018 a separate decision and that lighting is the first quarter of 2019 replace.

Light Challenge

In 2018, we have registered for the Light Challenge 2018. The command of the municipality of Ameland Nes in close consultation with village importance was at the Tower in Nes by an appropriate artistic appearance using lights. The first part is carried out by students of the NHL and consisted of the idea to project images on the Tower in the evening. You can do so on a particular event or on another to determine time. The first draft has been tested and worked. This would be picked up and further developed by a following group of students from another school. Who have fail and as a result this project ended early.

Dark Sky

The Wadden Islands have teamed up with mainland municipalities, provinces, and many other authorities signed a memorandum of understanding to an object or building or street as dark as possible. Ameland has this linked to our lighting plan for the outdoor area.

So now the lighting plan for our outdoor area is completed, is the signed intention under the Dark Sky also completed.

Generating renewable energy

Sun park Ameland

Sun park has more than 6.8 million kWh generated in 2018 Ameland BV. That is a few percent more than expected. A great result so. In 2018 have about 250 people visited the Solar park, half of which in combination with a presentation on Sustainable Ameland. In 2018 is the management and maintenance plan for the ecology in and around the Solar park. The recommendations have yet to be followed up.

Sun park Ballumerbocht

In 2018 is a first project plan for a new solar park on a former landfill site in the Ballumerbocht completed by a student. This is the basis for the plans for this Solar park in 2019 for decision making.

Test with solar panels in protected village

Because there are many monuments on Ameland and some protected village views in which heavy requirements apply to solar panels, is searched for alternatives. In 2018 is on a shed at a home along the Bureweg a new roofing that is the same color as the e roof tiles and that also generates electricity. We expect to be able to show the yield results in 2019.

Pressure digester

A high pressure digester put (food waste) and sludge to swill in green gas. Such a technique and installation could very well fit into the "energy grid Ameland" and ensures that no more gft and sewage treatment sludge or much less to shore to be drained.

In 2018 is there is an agreement with Wetterskip which in the fermentor the sewage sludge should not be used to make energy out of it. There is also a letter of intent with Bateau, Terberg, NAM, GasTerra signed the digester and the municipality also actual build. In december 2018 is the amount requested of the Fund for the digester.

Sustainable Energy smart power

The project with the 45 methane fuelcells is completed at 31 december 2018. The project participants will end 2018 2019/early to take a decision on whether to take over the device of the municipality. The municipality will do that for the installations covered by municipal buildings. The final bill for the subsidy is submitted and the monitoring report of the plants is.

Hybrid heat pumps GWA

In 2017, along with Covenant partner GasTerra 27 hybrid heat pumps placed on rental properties of the GWA. At six houses measuring equipment is installed to measure the actual energy consumption after placement of these pumps. After the winter of 2018/2019 the data will be available.

Hybrid heat pumps individuals

Through a solid financial contribution of GasTerra for purchasing hybrid heat pumps for individuals on Ameland is the attractive made for the first 100 sign-ups. Because the national Government amended the interim subsidy rules and both the municipality and GasTerra find that the installers and the individuals do not have to be the ones to suffer, municipality in the financial hole left the Empire GasTerra along filled up. The City Council has a budget and subsidies. The above projects have been and are in close consultation with the Amelander installers. This project is completed.

Small water heating network

One of the four projects of energy grid Ameland is a Small water heating network to recreation park with fuel cell. Work is now underway on a plan when the first quarter by 2019. The municipality looks to learn and advise.

Sustainable transport

In 2015, the province of Fryslân the public transport concession for Terschelling, Vlieland and Ameland Sudwest-Fryslân, awarded to Arriva. This is an option that the buses should be electric. Starting from 1 January 2017 drive the electric buses around on Ameland. At Holiday parks Klein Vaarwater and Camping Roosdunen Hyundai has provided (from October 2017) two electric and two hybrid passenger cars for recreational users who stay on the parks. People can use them for free. The role of the municipality was facilitating. The municipality of Ameland has some electric company cars on the island.

Research emission-free transport Royal Haskoning DHV

Was commissioned by the province and the Frisian Islands a survey conducted among companies on the Islands to what extent they are interested in the purchase of electric commercial vehicles. The Covenant is signed in the spring of 2019, there is an introductory visit of electric cars to the four West Frisian Islands organized and there is a telephone helpdesk deployed for interested entrepreneurs of the Islands.

Places of Hope

The municipality of Ameland in 2018 has been presented at the exhibition Places of Hope in Leeuwarden. In the context of Cultural capital 2018 will also find an exhibition of a half year in Leeuwarden in which the theme is participation in relation to the new omgevingswet. For Ameland we have the theme energy transition associated with it. The exhibition is visited by thousands of visitors.

Communication

In addition to the communication of the specific projects and through the Covenant Durable Ameland, the municipality has more than 30 presentations on sustainable Ameland on Ameland and (far) out there. In all, more than 700 people attended these presentations. Durable Ameland has much media attention in 2018. Op TV, social media and in daily and weekly newspapers there is regularly paid attention to Durable Ameland. Also the specific professional literature knew us well.

Education

Through a grant from the province of Friesland and co-financing of the municipality is in 2017 and Covenant partners commissioned a sustainability curriculum for the schools on the island Ameland. This happens in close consultation with the teachers and experts. This program is started in the second half of 2018 at the schools on Ameland and runs two school years. Studies preservation

Ameland In Ameland 3.0, the partners including the Covenant Durable agreed to new and innovative experiments in the field of renewable energy test on Ameland. Before a test can take place on Ameland, have already taken place in testing laboratories and test setups. Entrance in Groningen offers a portal for actually testing of innovative projects which then can be tested in practice on Ameland. Entrance is in short the proving ground for applied research: the Energy Transition Centre. Business, entrepreneurs and education building there to the energy supply of the future. Students of the Hanze University Groningen do in this framework research on Ameland and want like to research questions on the island life, get to know so that research can be done. The Wadden campus Ameland takes the lead. In 2018 have students research yields of hybrid heat pumps, preservation of historic buildings, a water management plan for Ameland, part car project and preservation at different entrepreneurs on Ameland. Entrepreneurship and participation On the four Frisian Islands are several projects for energy saving at entrepreneurs. On Ameland in 2017 and 2018 have seven entrepreneurs the sustainable entrepreneurs Circle Ameland formed. They are on properly their business plan step by step to the more sustainable. In addition, in 2018 twenty SME signed up to make a report how they green up their business including grant and tax advice. The first reports are completed by the end of 2018. The rest follows in 2019 and then implementing. The four joint energy charrettes village interests on Ameland are with subsidy from the province of Friesland, and with co-financing of municipality of Ameland, the project "Entrepreneurial Sustainable Villages" to execute it. A large project there is the involvement of the inhabitants of the villages at the energy transition. Questions like how we want our energy, what does that look like, what does that cost etc. are per village together with the village interests, inhabitants and external experts answered. In the form of a booklet are the results end 2017/2018 presented beginning. In 2018 have two-energy-charrettes. This is a booklet created what will be completed at the beginning of 2019. In addition, at different Islanders conducted interviews where different exciting and saving techniques in use. These are now being processed and collected in one book design what will be distributed at the beginning of 2019. In the last four years The amelander are in each issue an interview with a "Sustainable Amel otherwise". Is a booklet made and that in 2018 is distributed to the participants and other interested parties.