



## PURPOSE OF THE QUESTIONNAIRE

<b>Region</b>	Bornholm
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This questionnaire has been jointly developed by the CPMR Islands Commission (IC) and Greening the Islands. It forms part of the cooperation agreement that our organisation signed during the latest IC General Assembly in Corfu. This exercise aims to collect information on existing policy measures and/or funding schemes linked to:

- The development of renewable sources;
- boosting transition to electrical mobility;
- supporting stand-alone water supply in your island;
- improving sustainable waste management.

It is worth highlighting that the information collected through this questionnaire will be used to feed into the future joint IC/GtI position/technical report. In this respect, a debate on the first information and data collected will be organised during the international conference organised by Greening the Islands on 15 October and in the workshop organised by the CPMR Geographical Commissions on 16 October in Palermo.

Due to the high added value of this initiative, the key role played by your governments in providing information and data by answering to the greatest possible range of questions is highlighted.

In addition, if you complete the questionnaire on time, you will get a free 1-year subscription to the Greening the Islands Observatory, which includes free access to the Members-only area where you will find technical solutions and best practices for islands, meet all islands stakeholders of the network, etc.

### GENERAL INFORMATION ON THE ISLAND

<b>Population residing on the island (specify the reference year)</b>
39.695 (2017)
<b>Population in the peak tourist month (specify the reference year)</b>
We do not have it by month but 600.000 tourist by year
<b>Surface area [km<sup>2</sup>]</b>
588,3 km <sup>2</sup>
<b>Distance between the island and the closest continental harbour [km]</b>
Bornholm to Sweden 37 km and Bornholm to Copenhagen 140 km
<b>Presence of energy and/or environmental planning tools on the island (if existing, specify the type; e.g. energy plans, waste management plans, water management plans, mobility plans)</b>





1. Strategic Energy Plan 2015-2025 2. Bornholm show the Way – No waste in 2032 3. Plan for Waste Water-2014-20121 4. Acton plan for water and watercourse 5 Municipality plan for Bornholm 6. <https://www.brk.dk/Indflydelse-Politik/Planer/Documents/Energistrategi.pdf>  
2.

**Presence of any protected natural areas (if existing, specify the type of protected area and restrictions, percentage of protected area, surface area and any other suitable information)**

It is in Danish but see further via this link: <http://www.367ture.dk/artikler/naturbeskyttelse-paa-bornholm/>

Protected areas on Bornholm

<b>Type of Nature</b>	<b>All areas (ha)</b>	<b>Number of issues</b>
Lakes and ponds	381	3086
Moors	192	215
Fresh scary	494	330
Commons	805	433
Heathland	555	152
Beach Meadows and beach sums	151	444

**Any environmental quality certifications and/or quality labels recognised by the local government (if existing, specify the type)**

Green Key is a certification for hotels and recognised by Regional Municipality of Bornholm.

**Significant projects in the “Sustainable Tourism” sector (if existing, briefly describe)**

“Green Soloution House” is a hotel almost 100 % sustainable in building and process. Front runner in Green hotel





## SECTION I: ENERGY

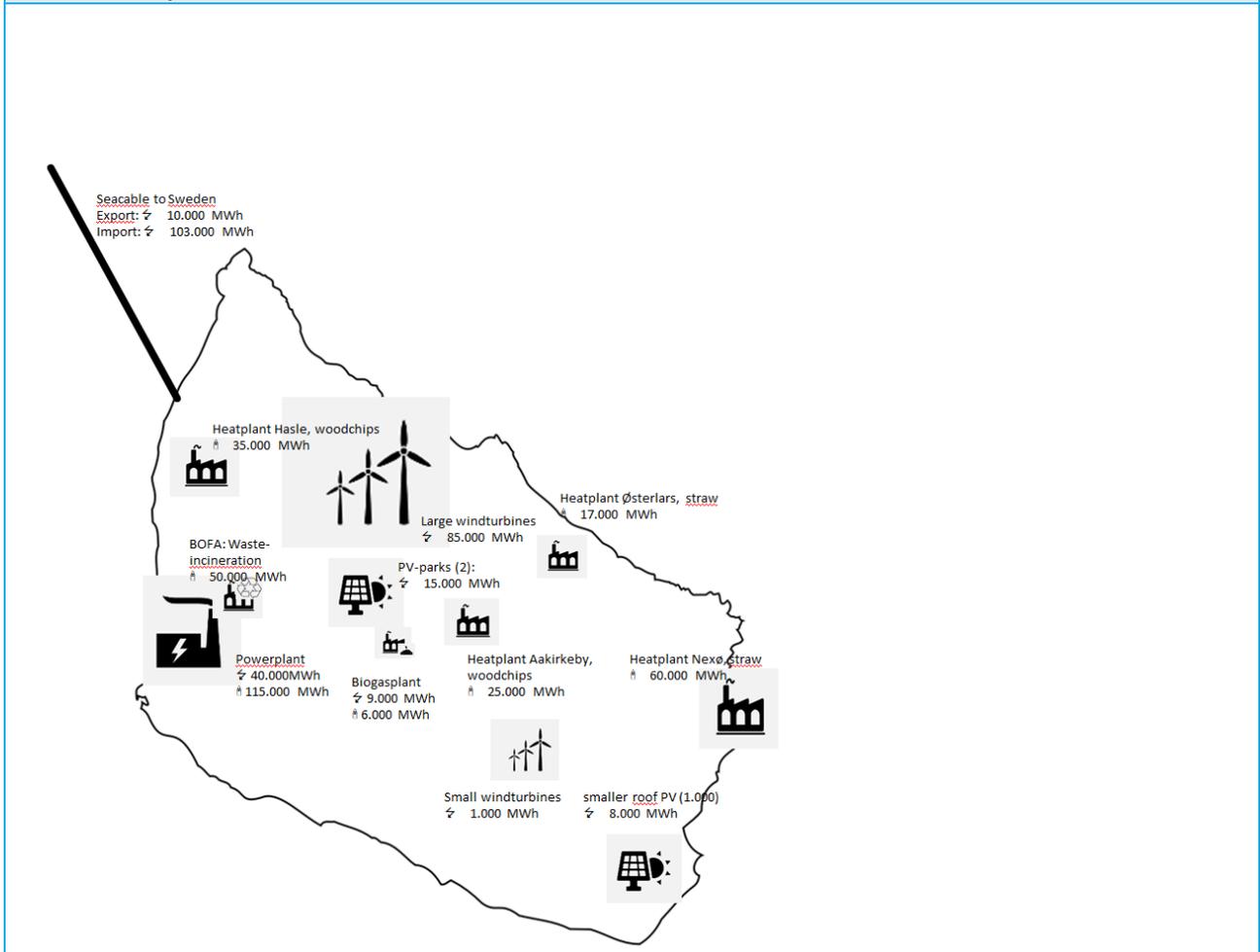
**QUESTION 1: Is your island connected to the national system for the transmission of energy or to the gas national network?**

**No, but Bornholm receives energy via sea based cable from Sweden  
But the state own company "Energinet.dk" has the overall responsibility in order to secure electricity in the cables and secure balance in the electrical network**

**QUESTION 2: Are there economic aids for the transportation of gas and/or oil to the island for the local production of electric energy?**

**No**

**QUESTION 3: Number, type and capacity of centralised and distributed energy generation plants on the island (thermal power stations, co-generation plants, district heating, PV, wind, etc.). Provide number, type and power for each type (for PV just provide an idea of the total cumulated capacity and the % of contribution).**





The map shows centralized and decentralized energy plants on Bornholm with type and energy production, heat and/or power.

**QUESTION 4: Are there incentives to district heating systems in the islands?**

**Yes, there are district heating systems in the larger municipalities on Bornholm. And new customers have a favourable possibility to connect.**



The map shows the areas on Bornholm with district heating, transmission lines and heating plants

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**QUESTION 5: According to your knowledge, will the integrated National Energy and Climate Plans (NECPs) of your country directly and/or indirectly contribute to create the necessary conditions to improve the production of electricity from renewable resources in your island? If so, could you explain how?**

**QUESTION 6: Did your regional/local government set a specific strategy to enhance the production of electricity from renewable sources?**

Yes, The Municipality of Bornholm enacted the Bornholm Energy Strategy in 2008 that paved the way for more renewable electricity from renewable sources. The 2008-strategy was revised with the Strategic Energy Plan from 2015.

**QUESTION 7: Could you tell us what are the targets/objectives of your strategy for the future? Please answer the question by using one or more of the following indicators: % of renewables of annual energy production; % reduction in CO2 emissions; % reduction in energy consumption (compared to the reference year).**

Source	Today	TARGET 2030	TARGET 2050
Electric Energy from RES	56 % on total	100 % on total	**% on total
Thermal Energy from RES	73 % on total	100 % on total	**% on total
Reduction in CO2 emissions (if available)	*36 %	100 %	%
Reduction in energy consumption	NA %	NA %	**%

\* We assess the achieved reduction in GHG emissions to app. 104.300 tons, with the conversion of the power plant to wood chips and the expansion of the district heating grid with wood chips and straw as fuel as the most important changes. Land transportation is expected to reduce emissions as technologies become available and affordable. For heavy transport such as trucks and lorries, efforts are being made to reduce the CO2 load through traffic optimization and route optimization.

\*\*The aim is to reduce energy consumption and expand energy production from renewables/CO2-neutral sources like woodchips so that energy production on Bornholm corresponds to energy consumption on a yearly basis in 2025. The next goal will be to cover all of the energy consumption with renewables at the time of the consumption. This requires development of technologies for seasonal energy storage that we don't have today.

**QUESTION 8: Did your strategy cover and/or contribute to the achievement of the objectives of the Sustainable Energy Action Plan (SEAP) existing in your islands? If Yes, could you explain how? Could you attach any available official document providing information on existing links?**

The expansion of the district heating grid in Bornholm is directly connected to the energy strategy from 2008. In working with the energy strategy from 2006 a forum of stakeholders was formed, Energy Forum, and this work inspired the further expansion of the district heating with the [Bornholm Heat Plan](#) from 2013.

The Municipality has decided to become Climate municipality with the obligation of a yearly CO2 reduction on 3 pct. The municipality makes a yearly status of the progress.

**QUESTION 9: Did your government start to work on the 2021-2027 ERDF Operational Programme? If so, is production of electricity through renewable sources a policy objective of your ERDF OP? Could you provide us with qualitative and quantitative information on how your government is planning to use ERDF budget to enhance production of electricity through renewable sources?**





**QUESTION 10: Are there any incentives in your island supporting the production of electricity from renewable sources?**

**NO**

**If so, could you provide us with qualitative and quantitative information about them?** For instance, please: explain what their legal basis is, explain who are the eligible actors/bodies, provide us with information about the positive impacts of some of them.

**LIST THE TYPE OF INCENTIVE EXISTING IN YOUR ISLAND** [tariff, tax credits and deductibles, capital contribution to the investment, public insurance of the investments, contribution to the cost of interests, issuing of certificates representative of production from renewable sources]:

**EXPLAIN WHAT THEIR LEGAL BASIS/REFERENCES ARE:**

**PROVIDE US WITH INFORMATION ABOUT THE POSITIVE IMPACTS OF SOME OF THEM (e.g. costs of electricity are saved or reimbursed, etc.)**

**QUESTION 11: Please, give some info about energy efficiency strategy and/or energy efficiency projects already carried out or planned (i.e. led, building efficiency, others)**

The municipality is changing the street lighting to LED with an estimated reduction in energy consumption from 2.1 mil KWh to 0.6 mil KWh.

The total CO<sub>2</sub> emissions from public buildings in 2018 were 605 tons. Over a period of ten year, from 2008 to 2018, there has been a 91 % reduction in CO<sub>2</sub> emissions. That comes to about 9 % reduction in CO<sub>2</sub> yearly. This due to both the reduction in heating and lighting in the public buildings but far the most is due to the earlier described change to RES in the energy production at BEOF, and the buildings change of heating system from oil burners to district heating.



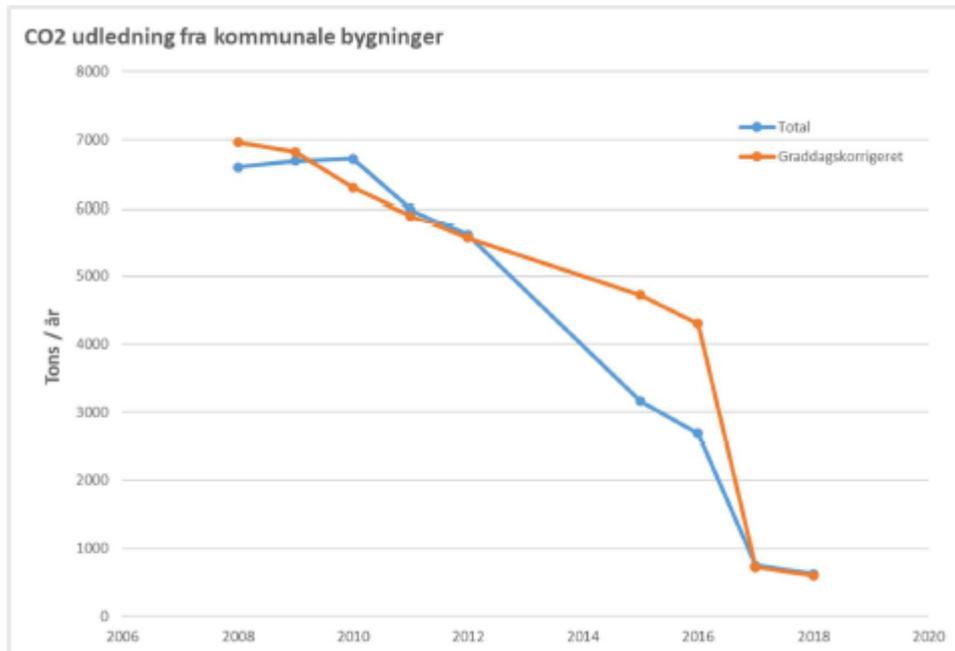


Figure: Reduction in CO2-emissions from municipal buildings from 2008 – 2018.

Source: Municipal climate report 2018.

**QUESTION 12: Any other info referring to energy and energy efficiency, if any (i.e. projects on smart grid, storage, others ...)**

**We have a application in for REsponsible island under Horizon**

