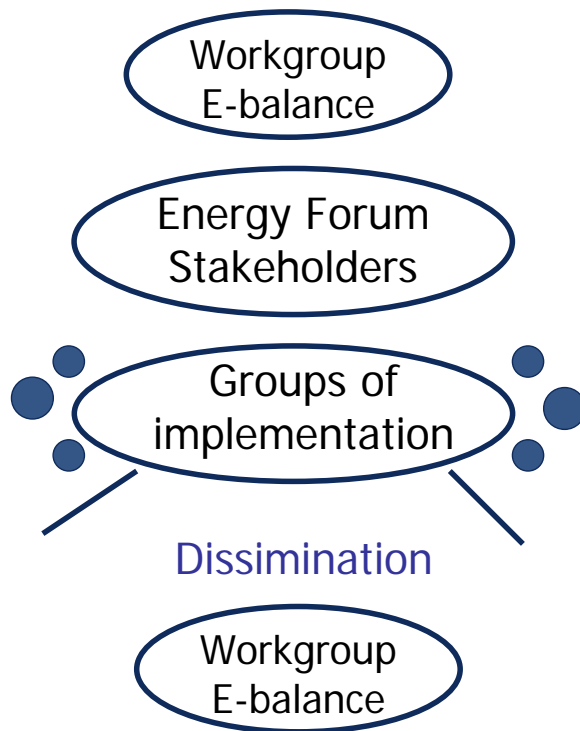


Transplan-project



Partner-islands

Bornholm

Gotland

Åland

Saaremaa

Sardinia

Observer-island

Rügen

Öland

Hiiumaa

Sardinia

PLAN energi

Islenet



Intelligent Energy  Europe

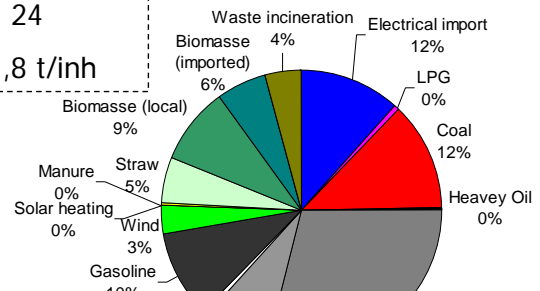
Bornholm

Proposed Priority of Actions
- start 2008-09

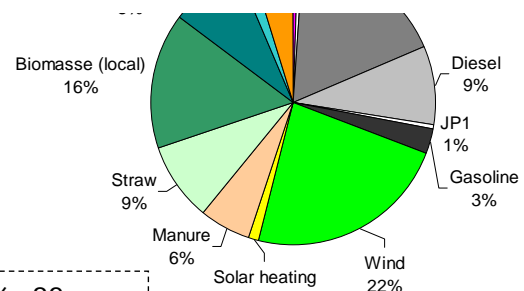
1. District heating in Hasle, Aakirkeby and Egebjerg
2. Change district heating plant
3. Wind
4. Bornholm solar plant
5. Ethanol cars
6. Electricity savings
7. Savings in heat consumption
8. Team of advisers
9. Energy Forum

RES%: 24

CO2: 5,8 t/inh



Reality takes over !



RES%: 82

CO2: 2,0 t/inh

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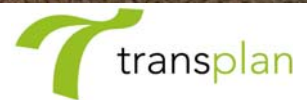
Bornholm

Proposed Priority of Actions
- start 2010-12

1. District heating in Sorthat-Muleby
10. Biogas
11. Electrical driven cars
12. Savings in land transport



Intelligent Energy  Europe

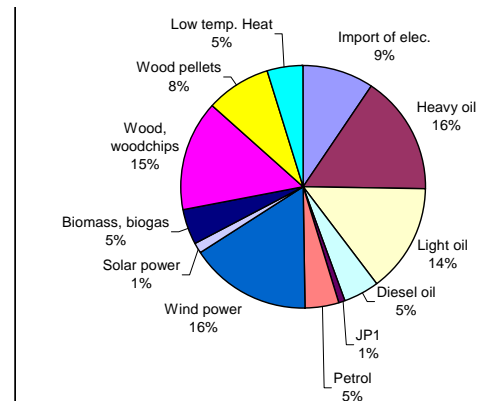
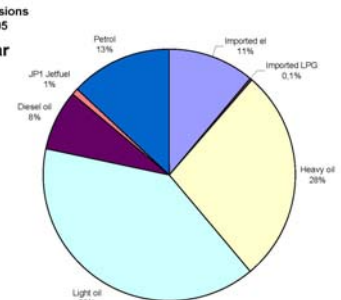


Åland

Is on the right track !



Åland CO2 emissions
situation 2005
260 kton/year



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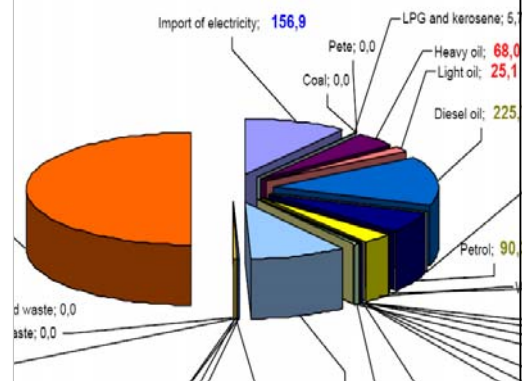


SAAREMAA TRANSPLAN

Action plan in short scale (1-3 y):

1. End use heating saving
2% per year
2. Electricity consumption increase
only 0.5% per year
3. Founding information centre
4. Individual oil use replaced by wood heating and heat pumps
5. Oil use for industries decrease 10% per year
6. CHP in Kuressaare using wood chips
7. Creating county general plan for energetics and therefore broadening the opportunities for constructing windmills

Energy consumption, future plan to 2025, GWh/y



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SAAREMAA TRANSPLAN 2009

1. Starting implementation group – finding interested parties
2. Finding energy/environment ambassadors and starting dissemination process – energetic people already have their hands full
3. Keeping the processes running – providing information

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Sardinia

- Still has to arrange training session III in January.
- Have been forced to work with other issues a long time. Because of that they have lost some speed in the work.
- Will now start with TransPlan work again.

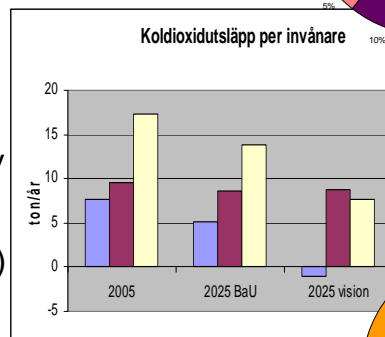
Gotland

1. Electricity savings
2. Savings in heat consumption
3. Efficient traffic
4. Solar heating
5. Conversion from individual oil/electricity heating to RES
6. Wind power (160 MW)
7. Biogas (for fuel)
8. Waste energy
9. Introduction of electrical cars

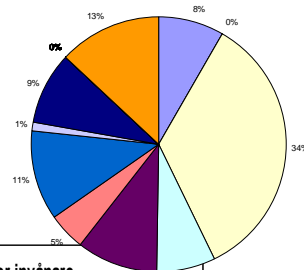
Present 2005

RES: 10,4 %

CO2: 17,3 ton/inh

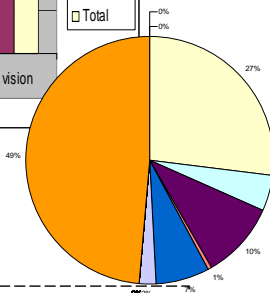


PRESENT 2005



- Import of electricity
- LPG and kerosene
- Coal
- Petcoke
- Heavy fuel oil
- Light fuel oil & KEO
- Diesel oil
- JP1
- Petrol
- Natural gas
- Wind power
- Wave power
- Hydro power
- Solar heating
- Geothermal power
- Manure
- Fibre from digested manure
- Energy crops
- Import, rape seed oil and energy crops
- Straw
- Wood and woodchips
- Import, wood and woodchips
- Wood pellets and wood waste
- Import, wood pellets and wood waste
- Organic waste, industry
- Organic waste, households
- Sludge, waste water cleaning
- Low temperature heat for heat pumps

2025 vision



- Import of electricity
- LPG and kerosene
- Coal
- Petcoke
- Heavy fuel oil
- Light fuel oil & KEO
- Diesel oil
- JP1
- Petrol
- Natural gas
- Wind power
- Wave power
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- Sludge, waste water cleaning
- Low temperature heat for heat pumps

Vision 2025

RES: 81,3 %

CO2: 7,7 % t/inh

Things are in progress (year 1-3)

- **Electricity savings and efficiency** – new activities are planned for 2009
- **Traffic** – environmental cars increase, biogas waste lorry 2009, biogas buses 2010, Air and ships, we have to wait 10-15years.
- **Solar heating** – increasing, thermal heating
- **Conversion** – oil burners decreased from 8000 – to less than 1000, we will try to find the rest and inspire owners to convert.
- **Wind Power** – big interest for development, limit in the cable of 160 MW (national financing)
- **Biogas** – Alva 1,5 million N m³ year 2009, Roma 8 million N m³ 2010 – will be upgraded to fuel for transports.
- **Waste for energy** - new waste system 2008-2009, Cementa AB uses sorted waste as fuel
- **Introduction of electrical cars** – Power Circle 2009

Why things are in progress

- Things are in progress mostly because of general development. Energy and climate is on the Agenda
- Development comes from many different organisations, many small platforms, it is complicated and needs more time to connect all things to TransPlan.
- Ongoing process.

Why things are difficult sometimes?

- The project is from the beginning underfinanced, we need complimentary financing for making progress in some areas, dissemination activities for example.
- The progress in the energy sector comes from many small and bigger organisations it is hard so gather these groups in the same forum.
- We have many networks for growth in the islands and it is important to combine projects so that people not get tired of too many meetings.

What is going to happen in TransPlan 2009

- Dissemination activities
- Climate
Entrepreneurs/Ambassadors
- Midway meeting on Gotland
27 -28 april
- Trans Island activities – biogas,
district heating or others.....

What about WGE beyond 2008 ?

- TransPlan is enough work for all islands for 2009
- The TransPlan group has to be a bridge to WGE group.
- Baltic Master II will start for some islands 2009
- Maybe we can use some of the WGE money as reserve finance if we run in to problem with april meeting in Gotland.
- If WGE is going to develop, all Islands have to contribute with ideas and work.