

Ameland: Frontrunner in the Energy Transition



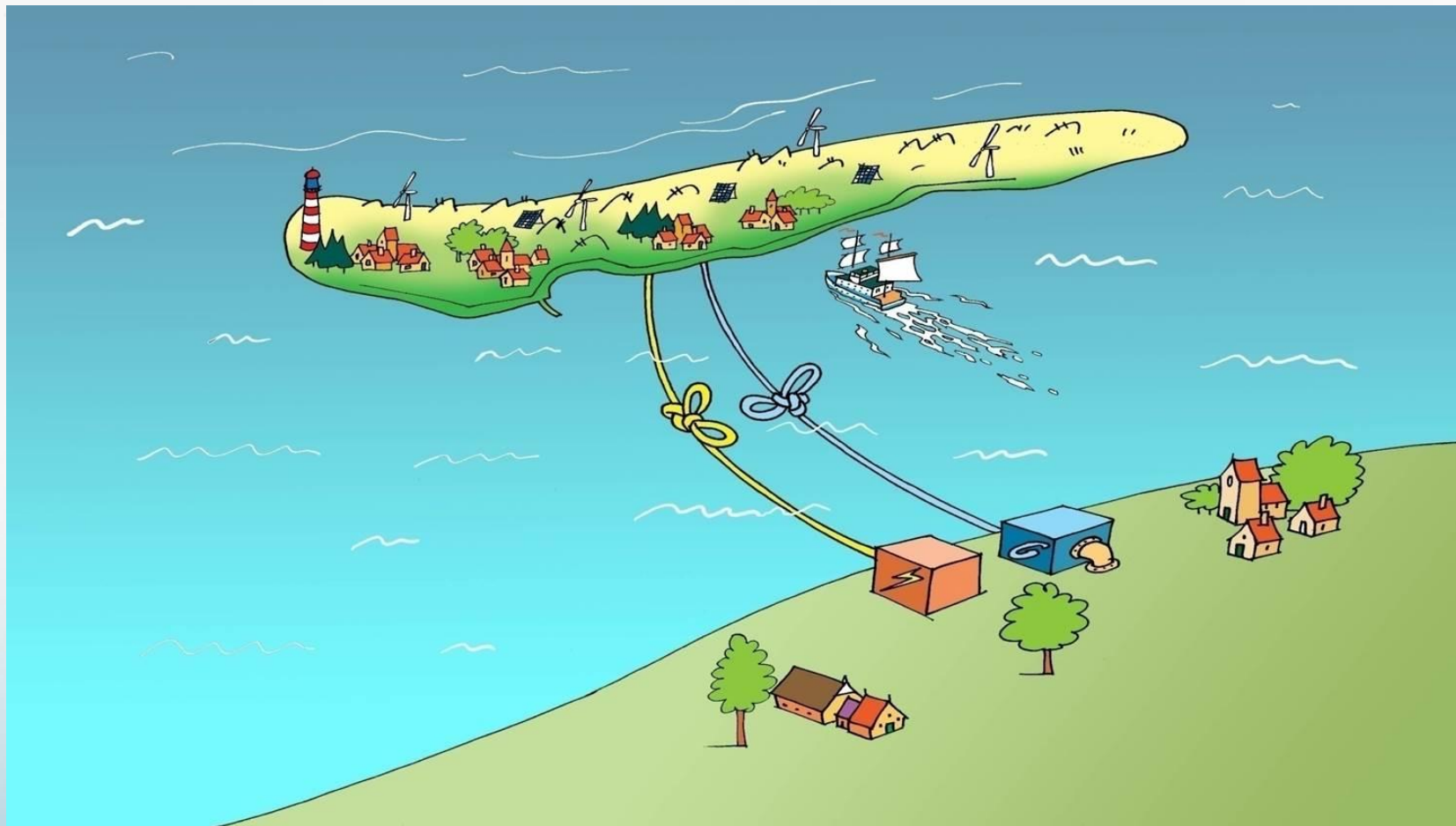
Jacob Dijkstra, civil servant at the municipality of Ameland
Brussel: 11-10-2017

About Ameland

- One of the Dutch Wadden Sea isles
- 3,600 inhabitants
- 27 kilometres of sandy beaches
- 550,000 – 600,000 visitors per annum
- Quality of life is driver for ambitions on sustainability
- 2,200,000 overnight stays
- Self sufficiency second nature



How it started in 2007



Partners then and now

Then



Now



Some early projects

- Mixing hydrogen with natural gas in existing grid
- Natural gas fueling station for public transportation
- 30 HRe furnaces installed in local homes

Some later projects

- Energy neutral high school
- Solarpark Ameland (6 Mw)
- 45 Fuel cell units installed
- Innovative Led Public lighting
- 100 Hybrid heat pumps installed (and counting) on the island

(and many more)

Some projects in pictures



Overview

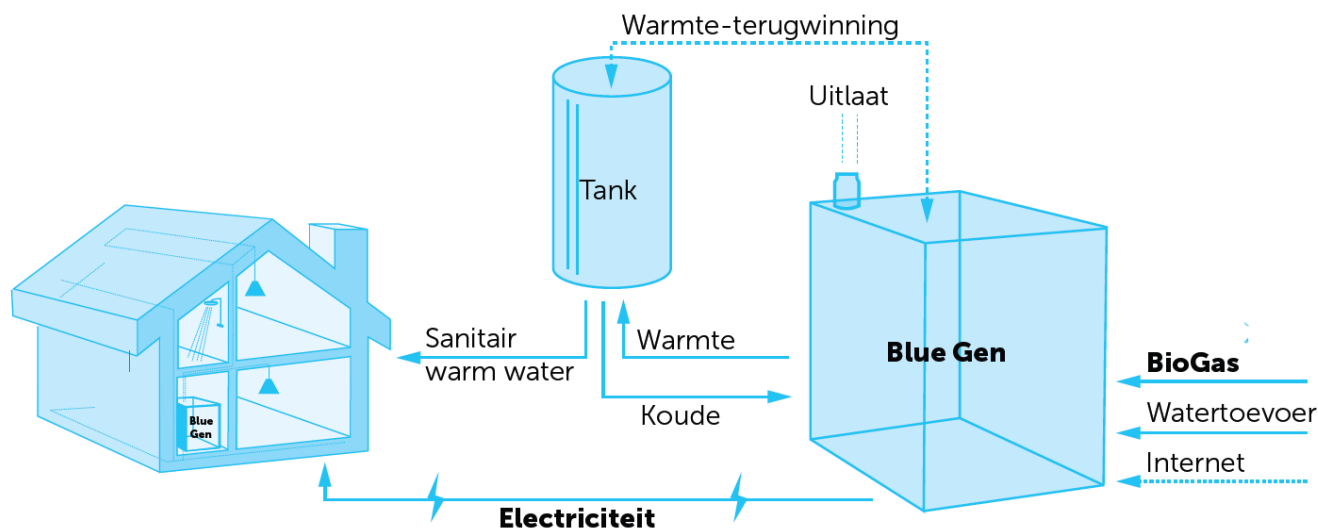


KEY

-  Cogeneration
-  Solar park
-  Sustainable lighting & green light
-  Fuel cells (45 units)
-  Hydrogen in natural gas
-  Heat pumps running on green gas
-  SchoolVision lighting system
-  Natural gas filling station

From Fuel cells to- Energy Transition

Systeempopstelling

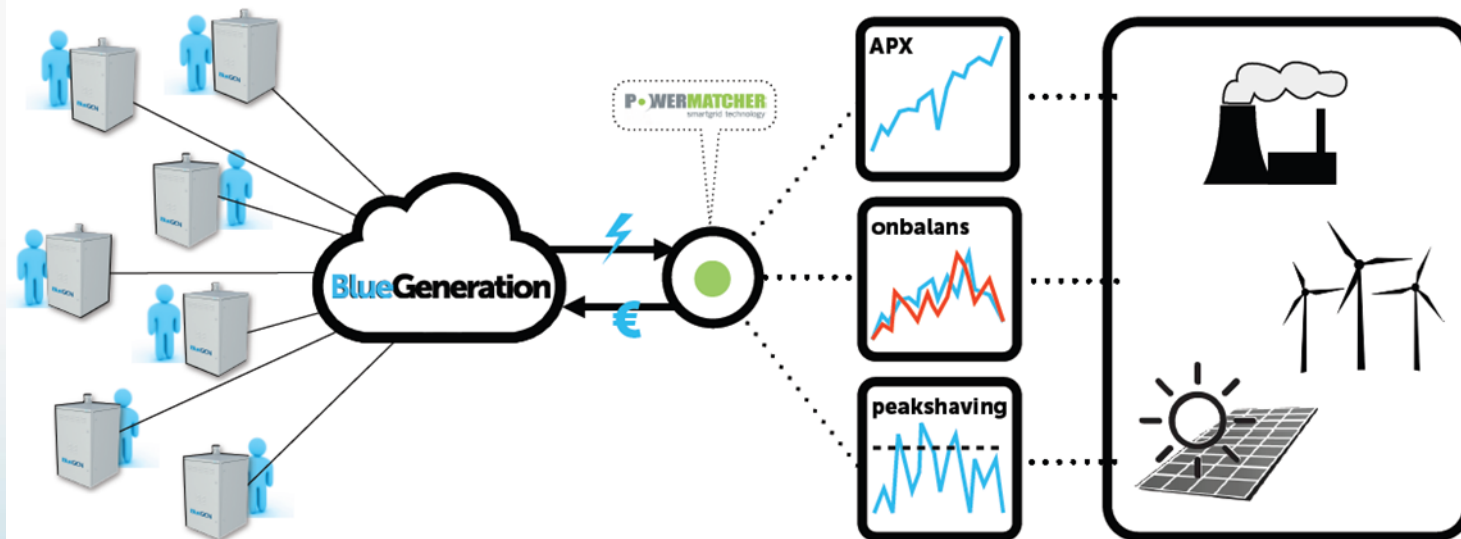


With the completion of our solar park, Ameland reached the maximum feed-in capacity of the local grid. The ability to keep the local grid stable was at its limit.

(All with just 1 project!)

From Fuel cells to- Energy Transition

ENERGY COMMUNITY



BlueGeneration

EnTranCe Movie [\(click here\)](#)

EnergyNet Ameland

- Ambition is to be 15 years ahead in the Energy transition: Reduce the CO2 emissions with 70% by 2020
- Works hard on an affordable and reliant, CO2 neutral energy system
- Leads by example in the Netherlands and Europe



Energy consumption on the island

Gebruikers



Islanders

3.600 Inhabitants
Public buildings
Local Transport

kerngetallen

300 TJ

gebruik

50%

aardgas

20%

elektriciteit

30%

brandstof



Tourists

2,2 Overnight stays
1300 Trailers / chalets
1600 Recreational houses
38 Swimming pools
Companies targeting tourist

200 TJ

75%

25%



Transport

620.000 Ferry passengers
per Year

200 TJ

100%



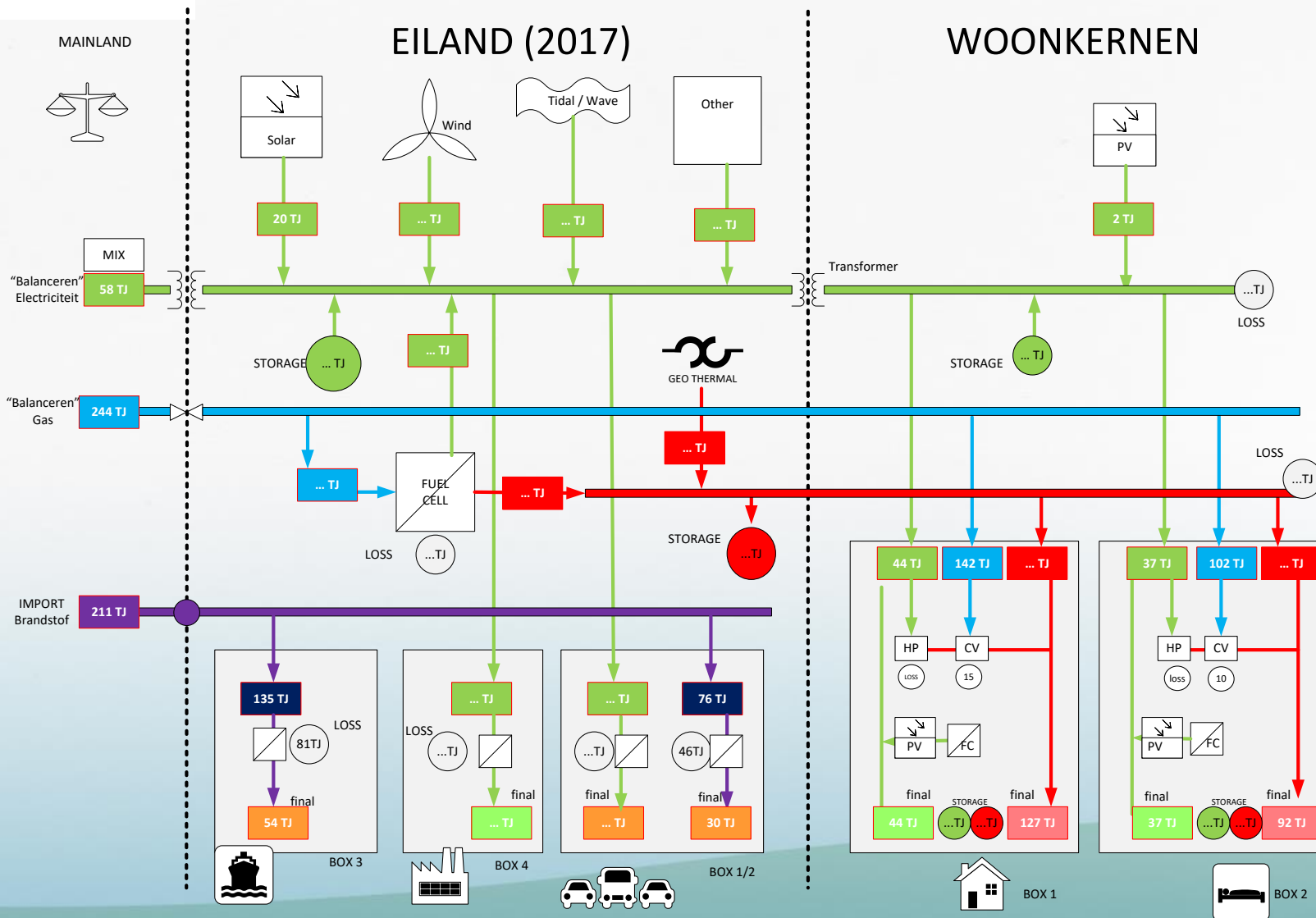
Industry

3 production locations
Natural gas production equals
the use in the province of
Friesland

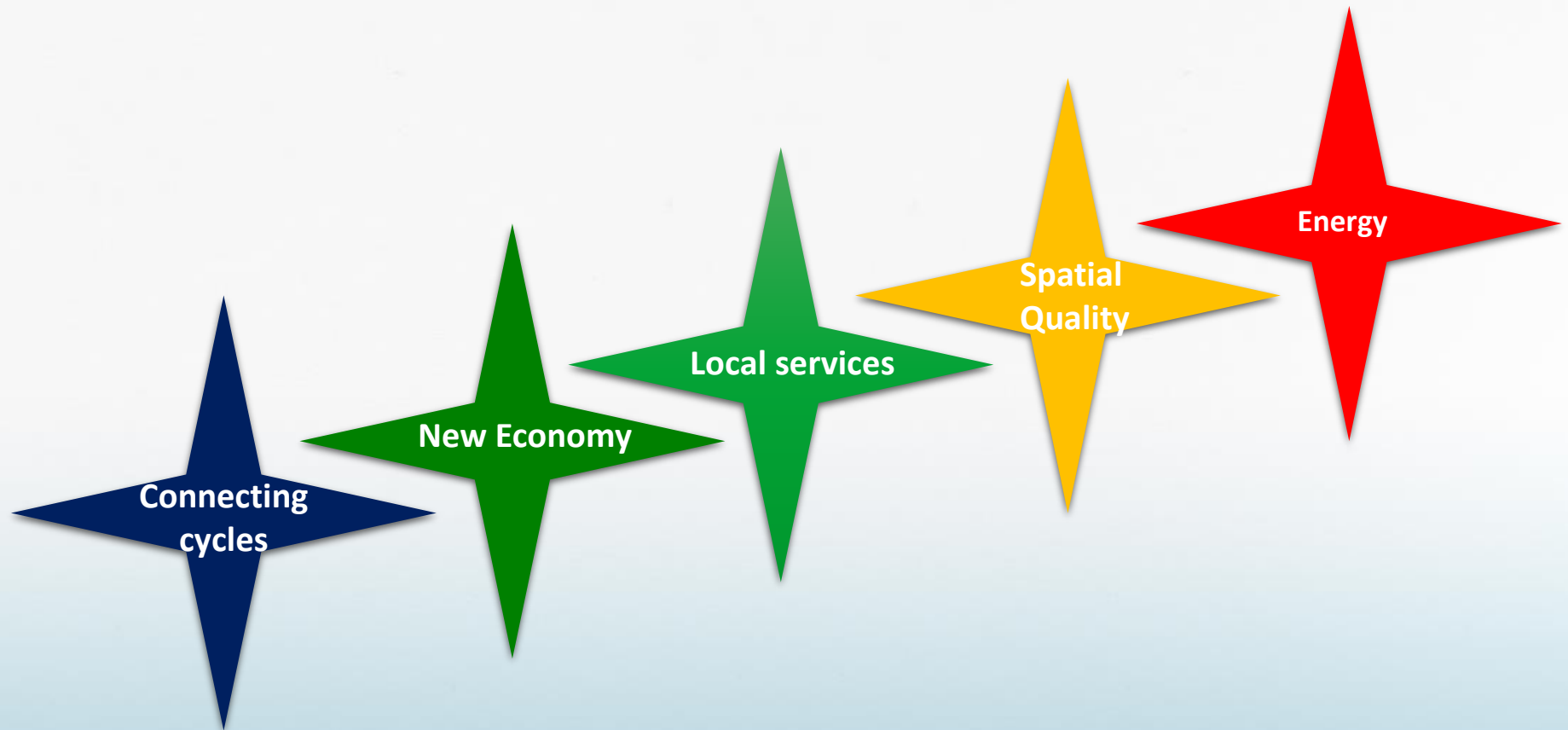
450 TJ

100%

MAINLAND



Energy; but a lot more...



Open invitation for 2018

On behalf of the mayor of Ameland, Mr. Albert de Hoop



Questions ?



Or Remarks