

A photograph of a forest at sunset. The sun is low on the horizon, creating a bright glow and long shadows through the trees. The trees are mostly thin and vertical, with some green and some yellowing leaves. The ground is covered in green plants and fallen leaves.

**EWII**

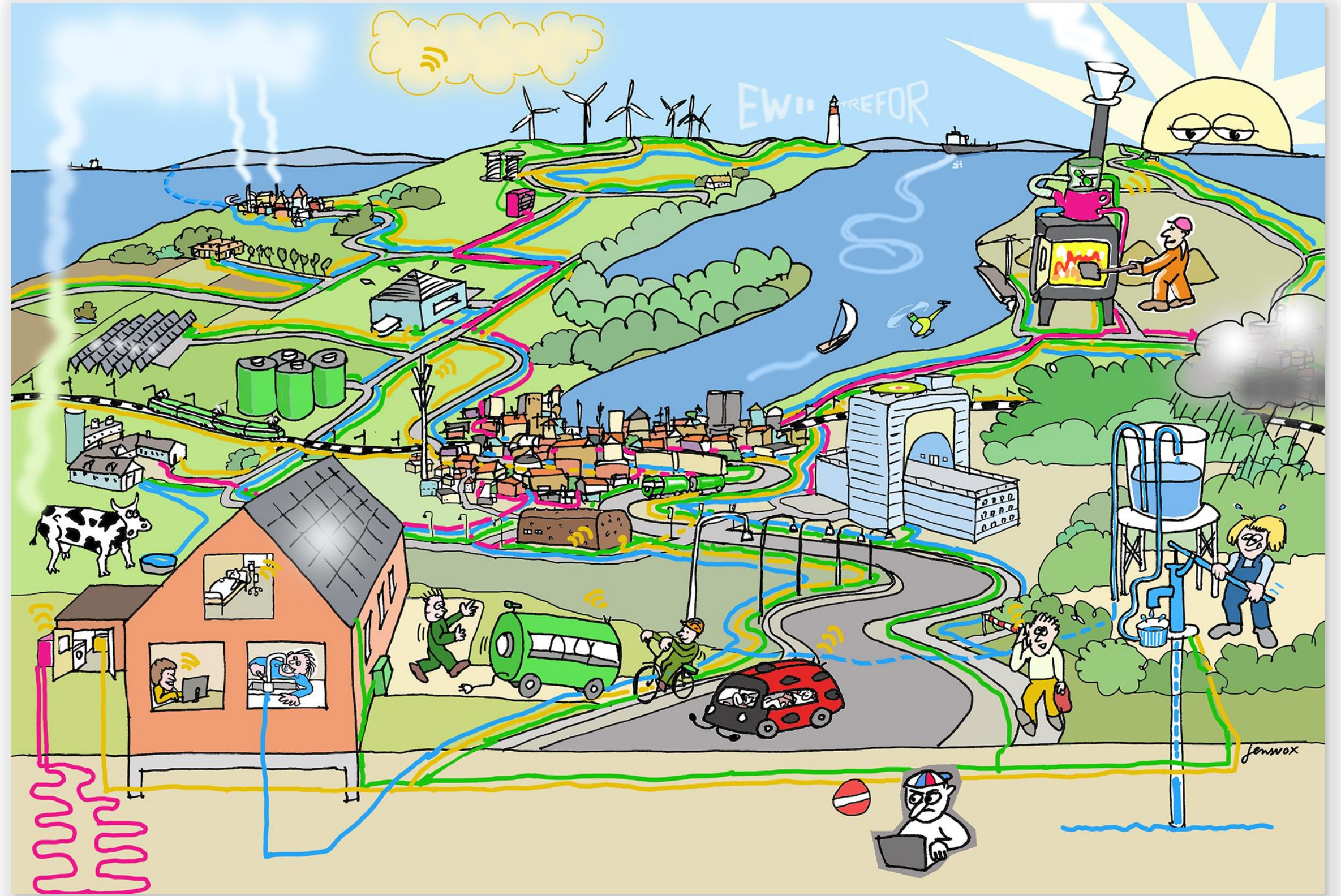
**FED Closing Conference**

**Lars Bonderup Bjørn, CEO EWII  
Chairman of the Steering Committee Flexible Energy Denmark**

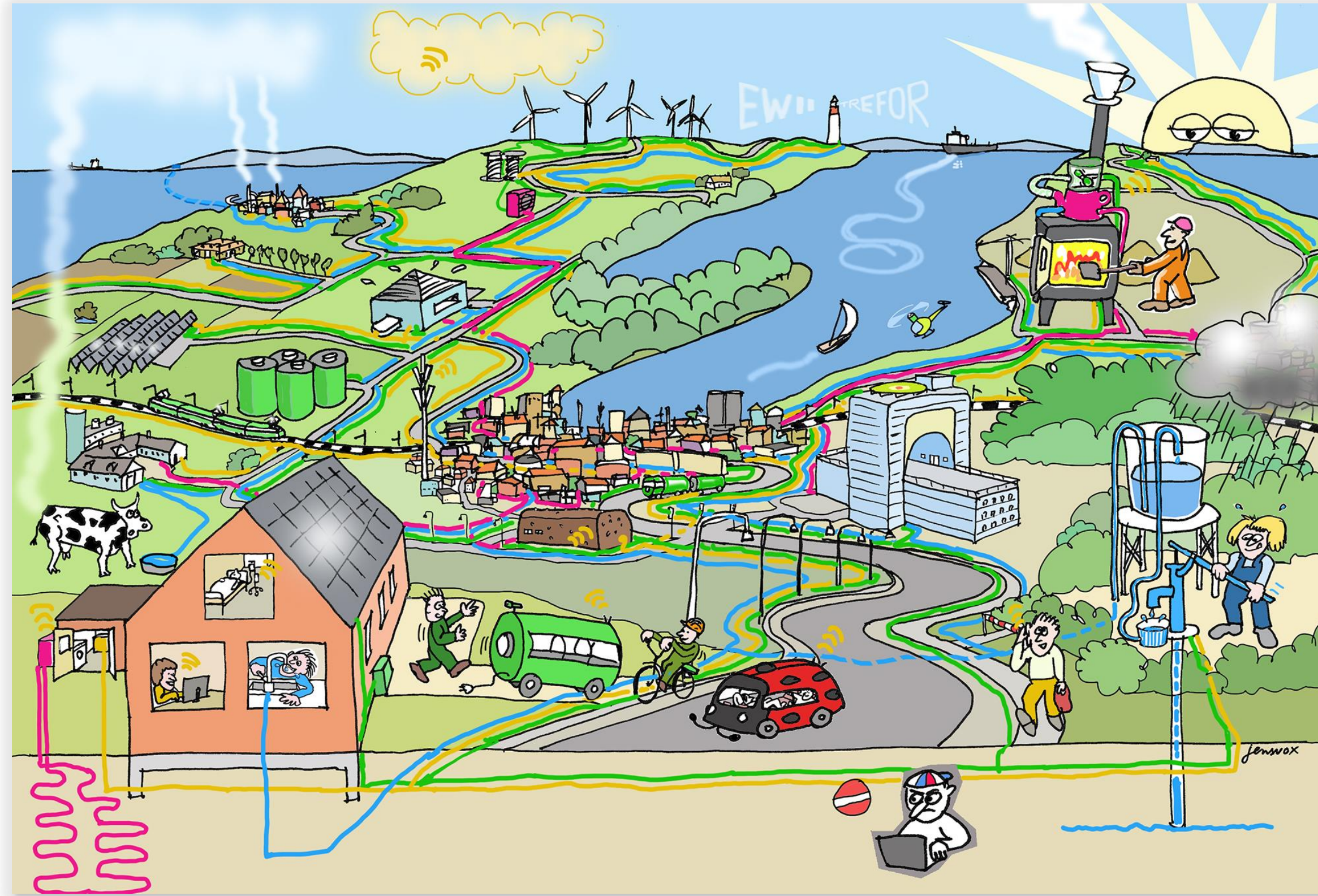


# Why do we talk flexibility?

- Renewable energy is not adjustable to consumption
- We need storage solutions or flexible consumption units to balance the energy system







## At what level do we talk flexibility?

- Renewable energy comes in giga parks and mini-scalable units
- We need to address both renewable energy usage and grid usage

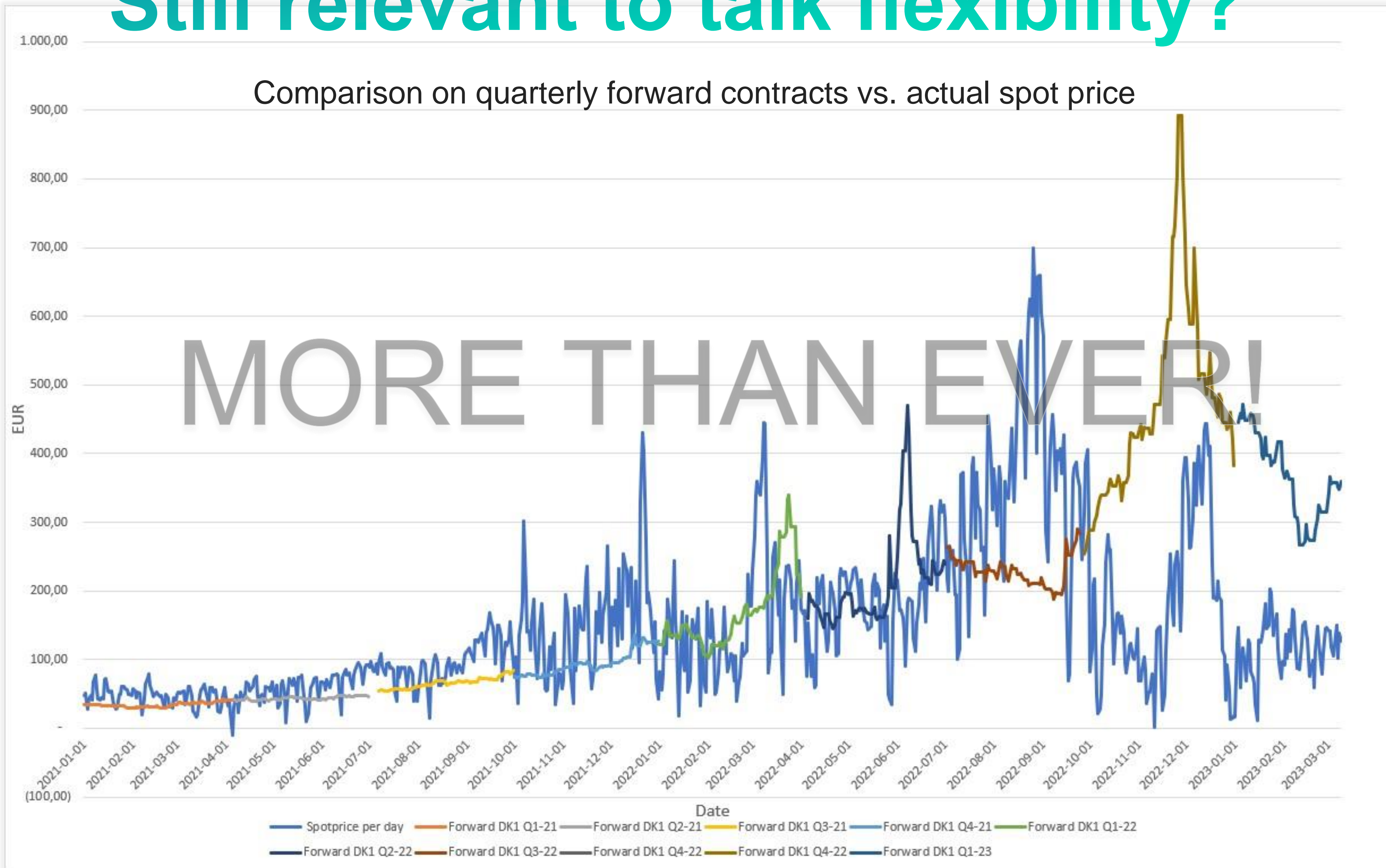


# Our initial claim: Society gains from flexibility

- We need more renewable energy but less of more, if we exploit the production capacity better
- Renewable energy was born in a logic of fitting into an existing system and made its arguments by producing cheaper and cleaner energy. The system perspective never allowed for optimum use of renewables
- We need enhanced grid solutions, but less enhancement if we levelize the transported amounts of energy
- The electricity grid has never been thought of as a facility that should be optimized – it has been thought of as something that should be plentiful

# Four years passed: Still relevant to talk flexibility?

Comparison on quarterly forward contracts vs. actual spot price



# Flexibility is a political issue not present on the political agenda

- Traders pick the gains from the price differentials created by renewables. It is socially unjustifiable that politicians do not address and stimulate consumption flexibility
- Absent flexibility, the green transition will be much more expensive, and costs are paid by the consumers
- Absent flexibility, we are likely to experience increased break-downs in the energy system or substantial overcapacity building, both with significant costs to society





# Consumers' financial gains made visible

- In the right political and commercial environment, society can save money on its expansion of renewables and grid connections ...

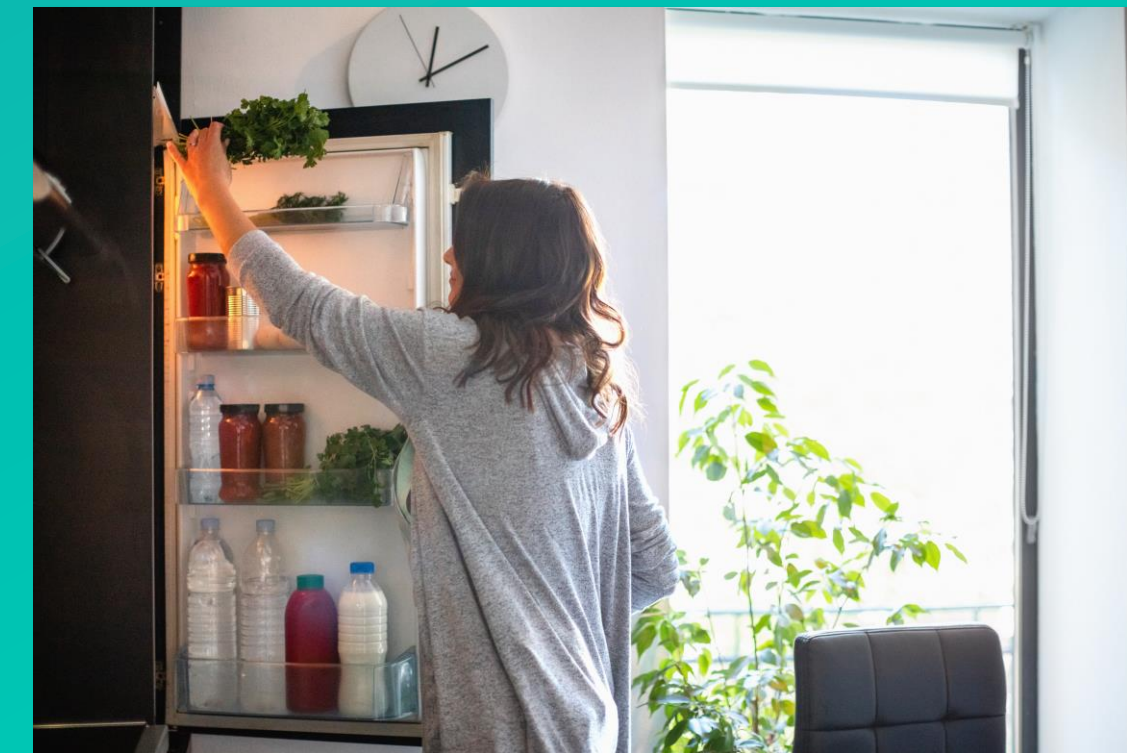
And

- Consumers can save money through activation of flexibilities
- The case of Fredericia Fjernvarme is a fine illustration of this



# Consumers' financial gains made visible

- I call out to other utilities *and* to the industry that there is a potential to harvest – a competitive edge to create, if offered to consumers. Guys: YOU ARE SLEEPING!
- For all of you who plays the parrot: It is NOT about EV batteries. It is about creating a trouble-free, better life and integrate flexibility in our daily way of living





# Flexibility and beyond: To unlock the potential we need data

- Center Danmark was established to ensure a permanent institution on top of Flexible Energy Denmark
- Through Flexible Energy Denmark and Center Danmark, we have proven the value of data liberation
- The case of TREFOR EI-Net is a wonderful example



# Learning from flexibility studies: Structural data release adds value

- When data are available and washed, society can speed up innovation significantly
- When data are available and washed, society can strengthen the competitiveness of our start-ups
- When data are available and washed, modern data investigation techniques can be applied to search for patterns and problems not yet discovered
- When data are available and washed, Denmark becomes attractive to foreign industries and start-ups as a place to test and develop new solutions
- When data are available and washed, consumers can gain new insights to their way of living



# Request to the politicians

- You need to allow all Danish utilities 1 krone per meter per month to facilitate public access to production and consumption data – all with respect to GDPR
- Free the Bears is an Australian wildlife conservation and animal welfare organization started because bears were captivated and kept in coffin-sized cages
- It is now time to FREE THE DATA, open the coffin and create a trusted data sharing environment!



Questions?