

Heat Strategy for Thisted

Mrs. Lene Kjelgaard Jensen

Mayor of Thisted Municipality



44.500 inhabitants

1093 km²

Ca.1700 industrial companies

First National Park

Cold Hawaii

Gateway to the North Atlantic



Thisted Municipality



- **More than 100 percent of the annual electricity production is renewable**
- **85 percent of heat production comes from biomasses i.e. straw, wood chips and waste incineration.**



Thisted Municipality



- District heating developing from oil to biomass, geothermal, waste to energy.
- Energy savings part of public debate.
- Jobs in sustainability and energy savings.
- Cost savings
- Independency



History





District Heating in Krik and Agger





Energetic Citizens



Leif Amby

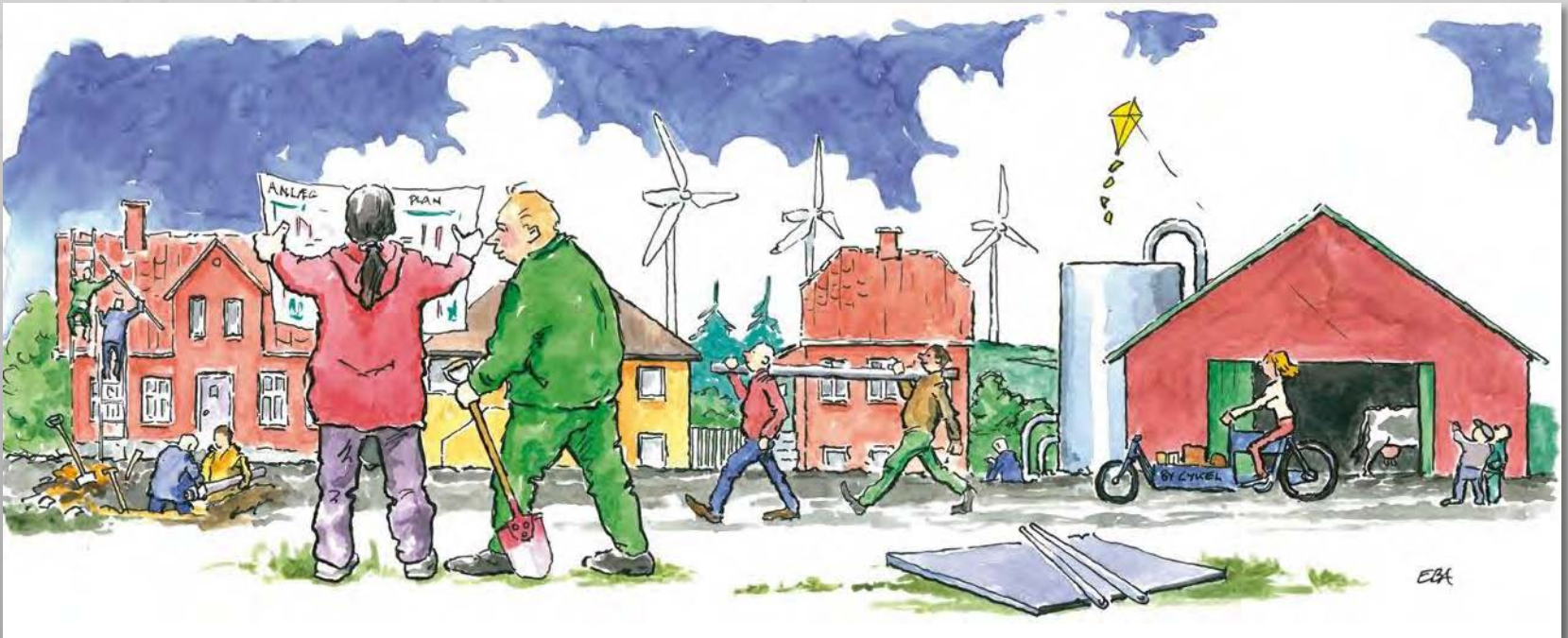
Consulting Engineer, CEO DANINCO



Let's get them rolling...!



- The Heat Plan
- The Resource Plan
- The Biogas Plan
- The Energy Plan
- The Wind Turbine Plan



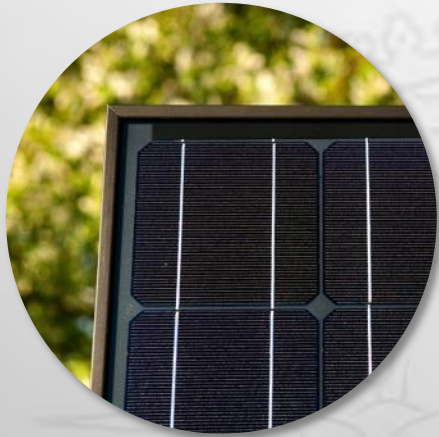
Future steps and plans



	Total production/ consumption, %:	Renewable share of production, %	Sourcesin 2013,%	& in 2025, %
Heat	65	79	Biomass:	32	40
			Coal:	0	0
			Gas: Fossil	31	0
			Biogas	0	5
			Geo thermal (incl. heat p	5	20
			Waste Inceneration	29	15
			Electric Power	3	20
Electricity	35	96	Coal:	0	0
			Gas: Fossil	3	0
			Biogas	< 1	5
			Waste	10	5
			Wind	93	110
			Other biomass	5	10
			Solar:	13	25

Energy Consumption



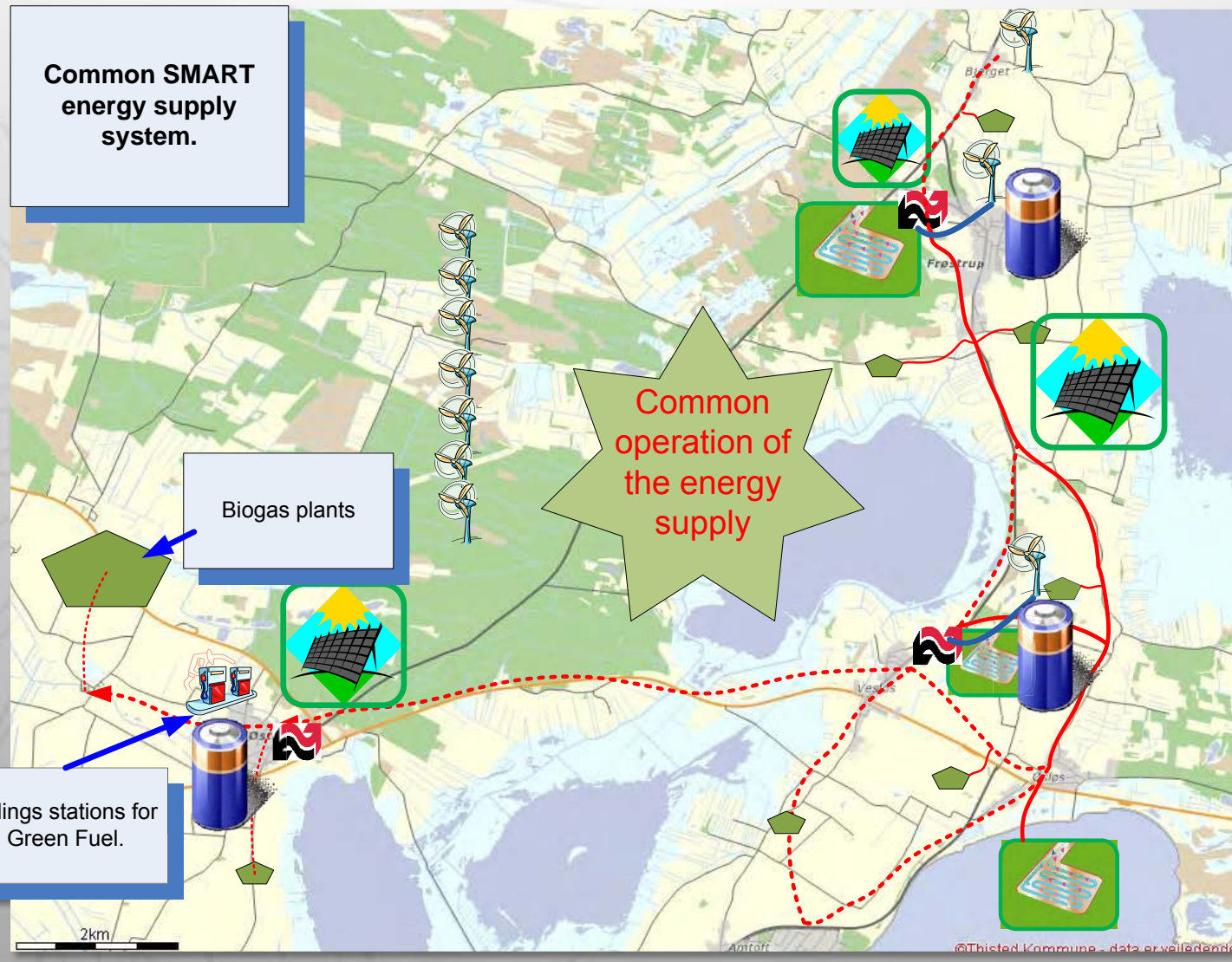


- Implement more solar energy systems (heating or electricity)
- Build more biogas plants
- Install more wind turbines (small household turbines)
- Install heat pumps powered with solar/wind energy
- Develop intelligent common solutions (SMART) for the rural areas

Heat Plan



Common SMART energy supply system.



Smart Area: Hannæs - Østerild





Conclusion

