

Put all your energy in to sand

Invest in 100% clean energy

POLAR NIGHT ENERGY

Vision: Cut Emissions, Revolutionise Energy Markets

Patented solution: store wind
and solar power as heat in sand

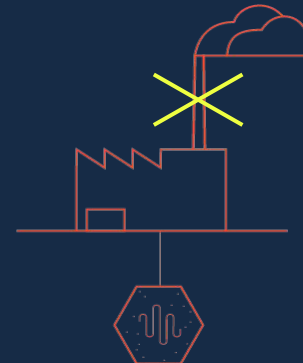
Affordable, safe, scalable,
and reliable around the world



Unit sizes: home, industrial complex, housing district



Electricity for users,
excess energy into heat,
used later during the year

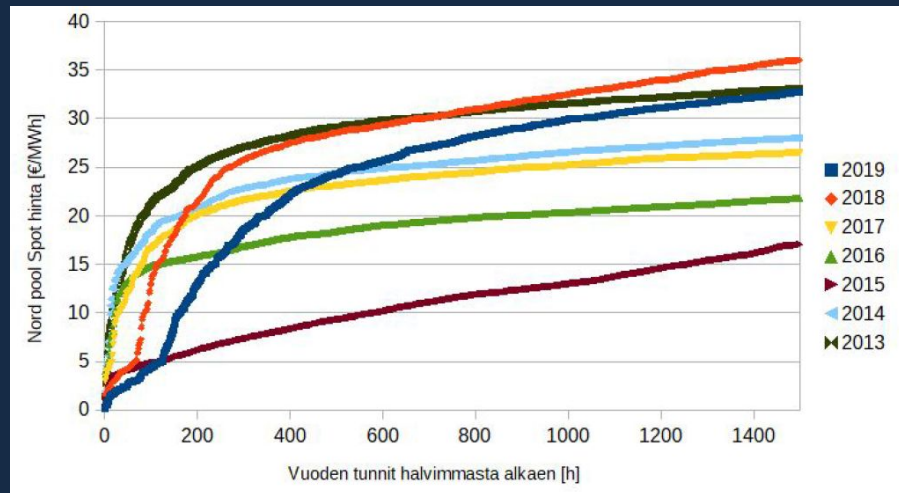


Highlights: Large energy storages in Hiedanranta

District scale operation requires grid connection

The lowest prices in the Spot-market are often the cleanest (high wind fraction)

Pre-tax profit in such operation is high – even with the tax, heat has a reasonable price with this kind of operation



Vuosi	Spot-hinta	Tuotantokustannus ei veroa	Tuotantokustannus II vero	Tuotantokustannus I vero
2019	20,8	37,1	42,1	59,6
2018	25,5	41,8	46,8	64,3
2017	21,7	38,0	43,0	60,5
2016	17,7	34,0	39,0	56,5
2015	8,9	25,2	30,2	47,7
2014	23,2	39,5	44,5	62,0
2013	27,4	43,7	48,7	66,2
Keskiarvo	20,7	37,0	42,0	59,5

Hot sand. Do you dig it?

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