

Eesti Energia

Mere tuulepargi arendamine

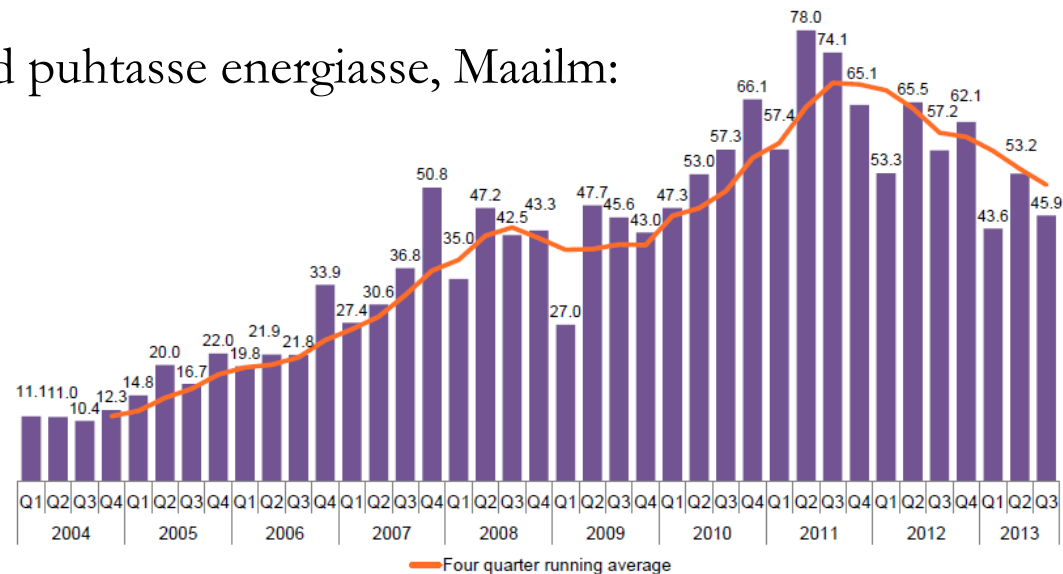


Lauri Ulm
30.10.2013
Kassari

- Hetkeseis taastuvenergia sektoris
- Tulevik taastuvenergia sektoris
- Liivi lahe meretuulepargist

Hetkeseis taastuvenergia sektoris

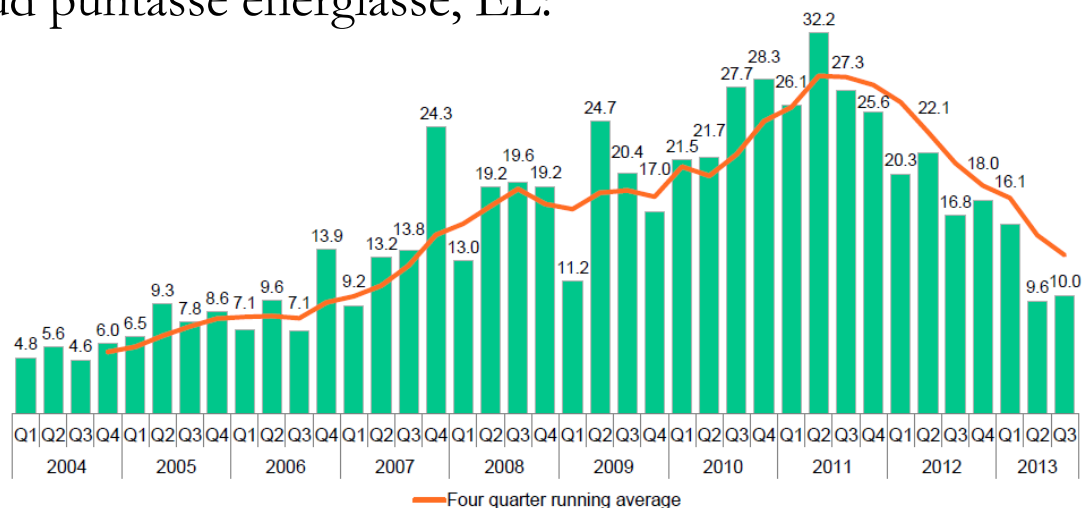
Uued investeeringud puhtasse energiasse, Maailm:



Note: Total values include estimates for undisclosed deals. Excludes corporate R&D, government R&D, digital energy asset investment and energy storage asset investment (only available annually)

Source: Bloomberg New Energy Finance

Uued investeeringud puhtasse energiasse, EL:



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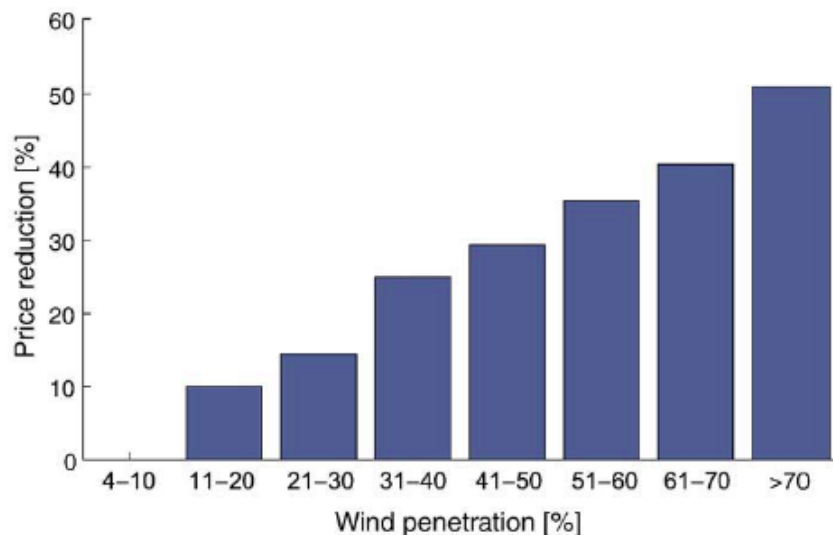
Source: Bloomberg New Energy Finance

Hetkeseis taastuvenergia sektoris

Philippe Gerbert (Boston Consulting Group): In some European countries that have heavily invested in wind or solar plants, energy prices have been “driven through the floor”.

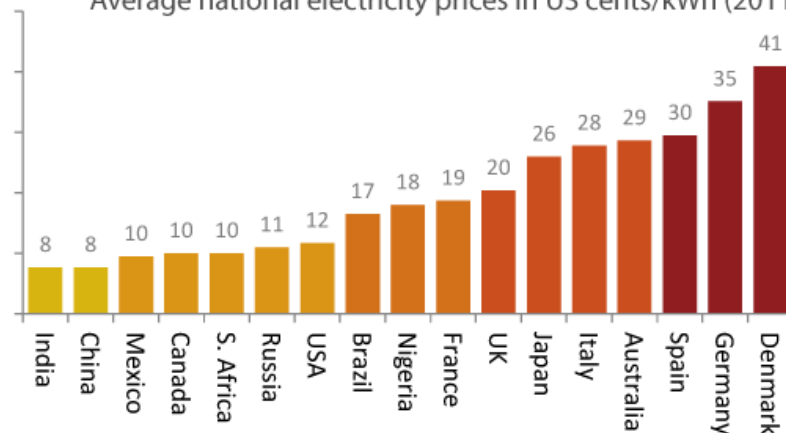
Bloomberg: The nation, which is seeking to lead European climate-protection efforts, probably will produce higher greenhouse-gas emissions in 2013 on top of a 1.5 percent gain last year.

Kemfert: “Coal plants are the only plants that can be operated at profit at the moment, and that’s why their share is rising and rising,”



How much does electricity cost?

Average national electricity prices in US cents/kWh (2011)



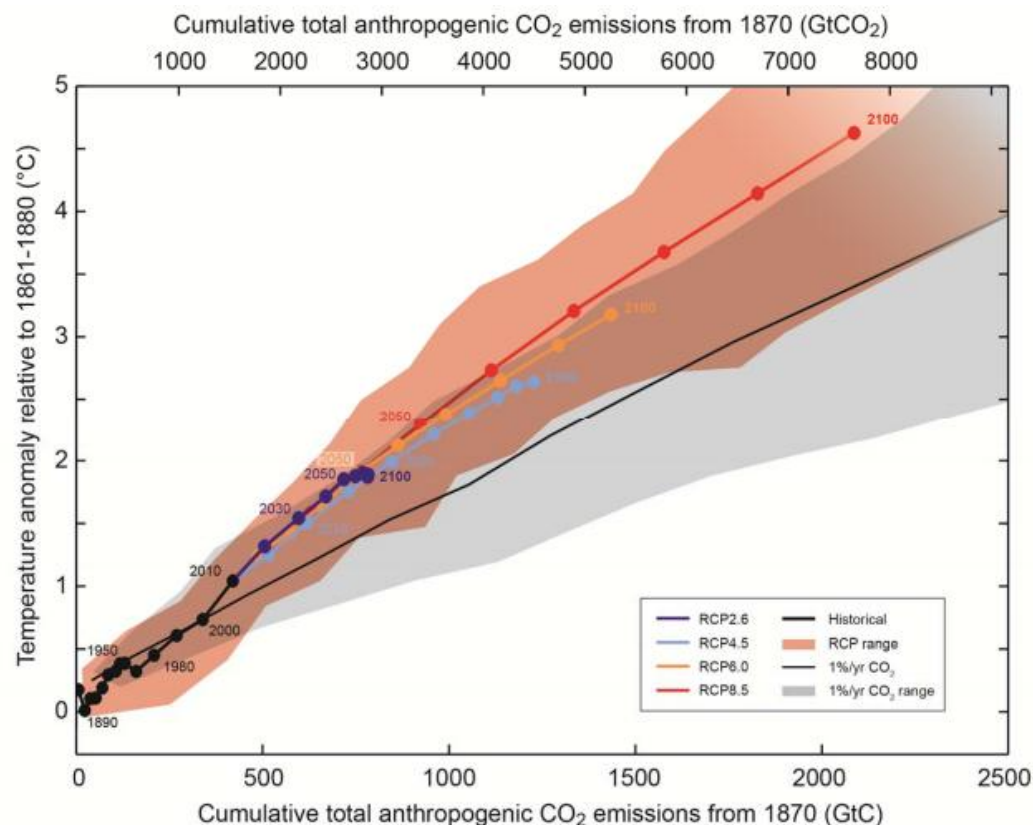
a: average prices from 2011 converted at mean exchange rate for that year

sources: IEA, EIA, national electricity boards, OANDA shrinkthatfootprint.com

Allikas: (Jonsson et al 2010, 318)

Valitsustevaheline Kliimamuutuse Nõukogu (IPCC) viienda hindamisaruande "Kliimamuutused 2013: loodusteaduslik alus" esimese köide:

- Evidence for human influence has grown since AR4. It is extremely likely that human influence has been the dominant cause of the observed warming since the mid-20th century.
- Cumulative emissions of CO₂ largely determine global mean surface warming by the late 21st century and beyond.



Tulevik taastuvenergias

- Järgmine kohtumine United Nations Framework Convention on Climate Change raames toimub novembris (Conferences of the Parties 19).
- Christina Figueres (21 oktoober): „Now is the time“
- COP 18 raames, 2012 aastal, leppisid osalised kokku ajakavas jõuda globaalse kokkuleppeni, mis hõlmab kõiki riike. Ajakava järgselt peaks jõudma kokkuleppeni 2015 aastal. Kokkuleppe rakendatakse alates aastast 2020.
- EL alustas 2030 eesmärkide seadmiseks arvamuse küsimist 2013 märtsis. Arutelu 2030 eesmärkide üle toimub 2014 aasta märtsis. EL eesmärgid seatakse koostöös UNFCCC globaalse kokkuleppega ning on üks osa sellest.



United Nations
Framework Convention on
Climate Change

Tulevik taastuvenergia sektoris

World Energy Council stsenaariumid aastaks 2050.

JAZZ

As an energy scenario, Jazz has a focus on energy equity with priority given to achieving individual access and affordability of energy through economic growth.



Jazz is a style of music, characterised by a strong but flexible rhythmic structure with solo and ensemble improvisations on basic tunes and chord patterns. In Jazz, musicians have freedom to take the lead and improvise; others in the band will often follow.

SYMPHONY

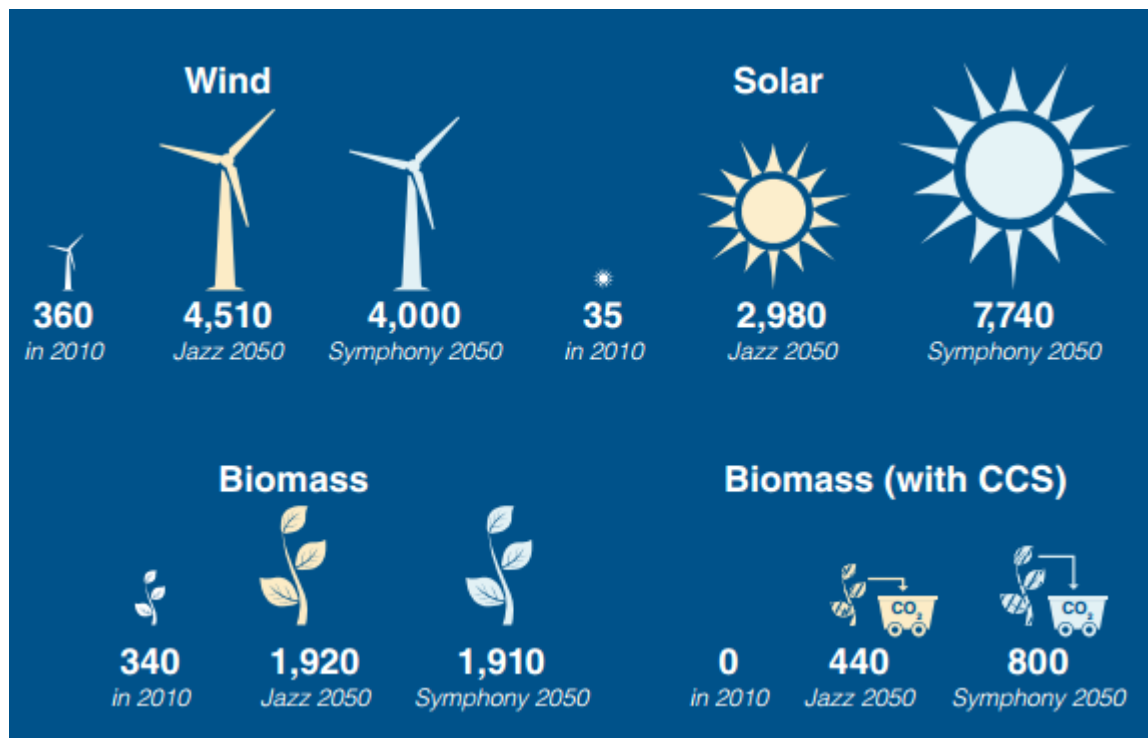
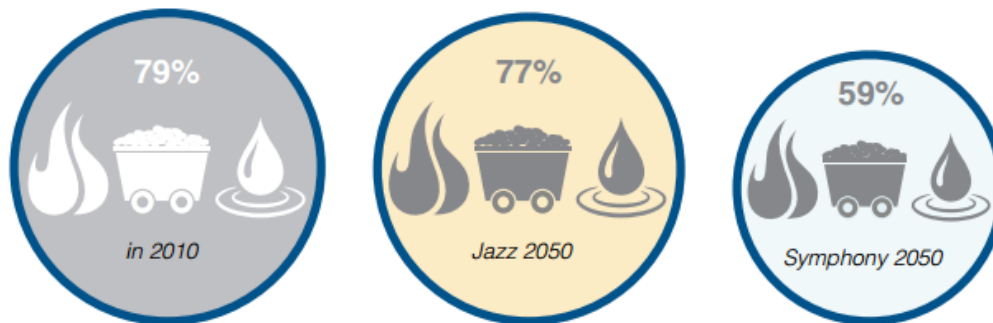
As an energy scenario, Symphony has a focus on achieving environmental sustainability through internationally coordinated policies and practices.



A **Symphony** is a complex piece of music with a fixed structure composed to be played by a symphony orchestra. The orchestra will have a conductor and 80 or so orchestra members will each have a specific role to play and score to follow.

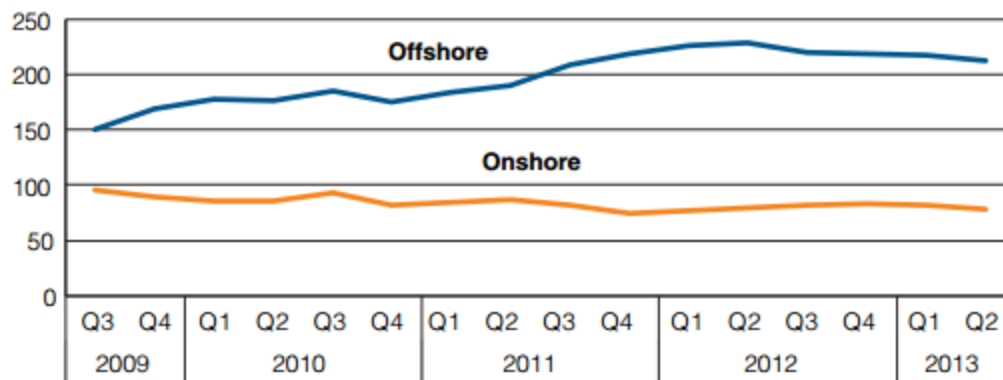
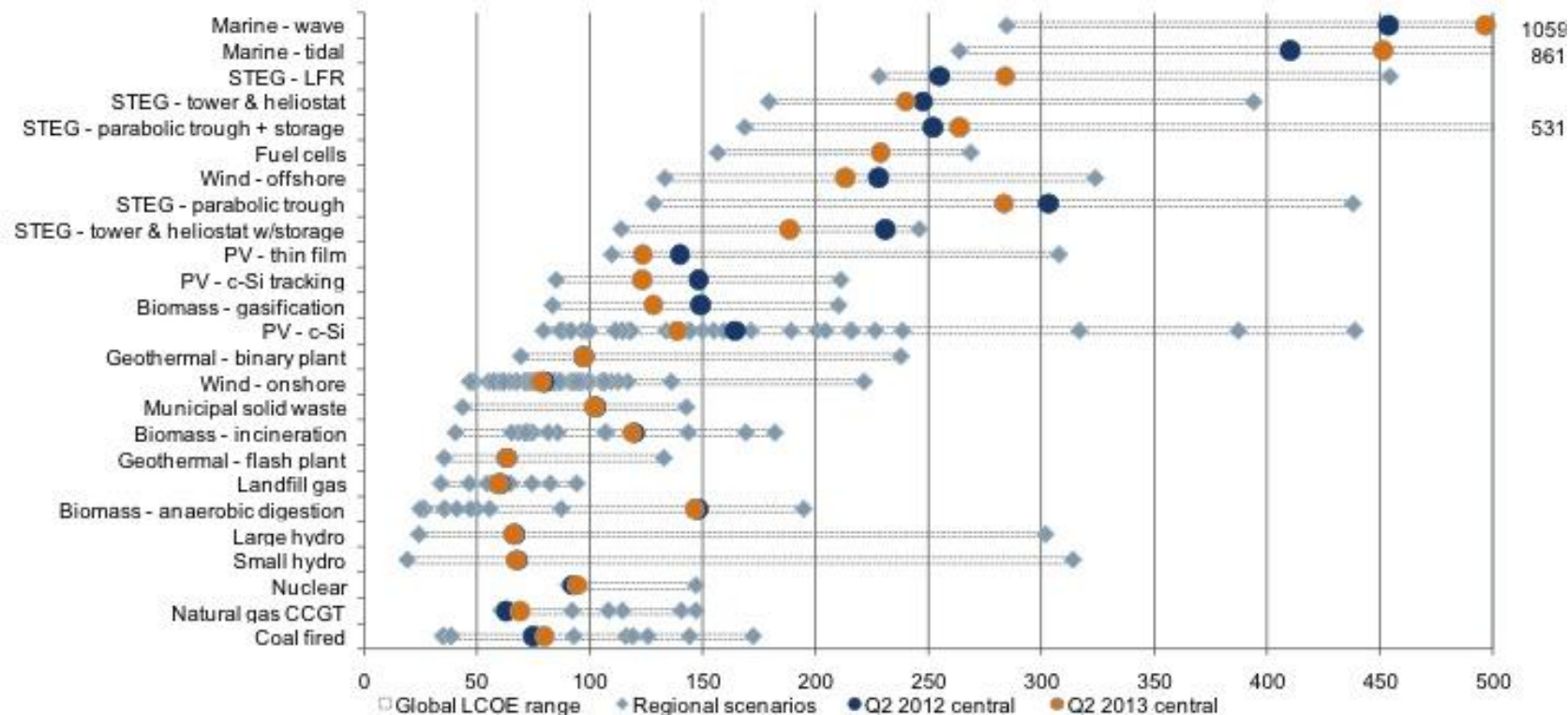
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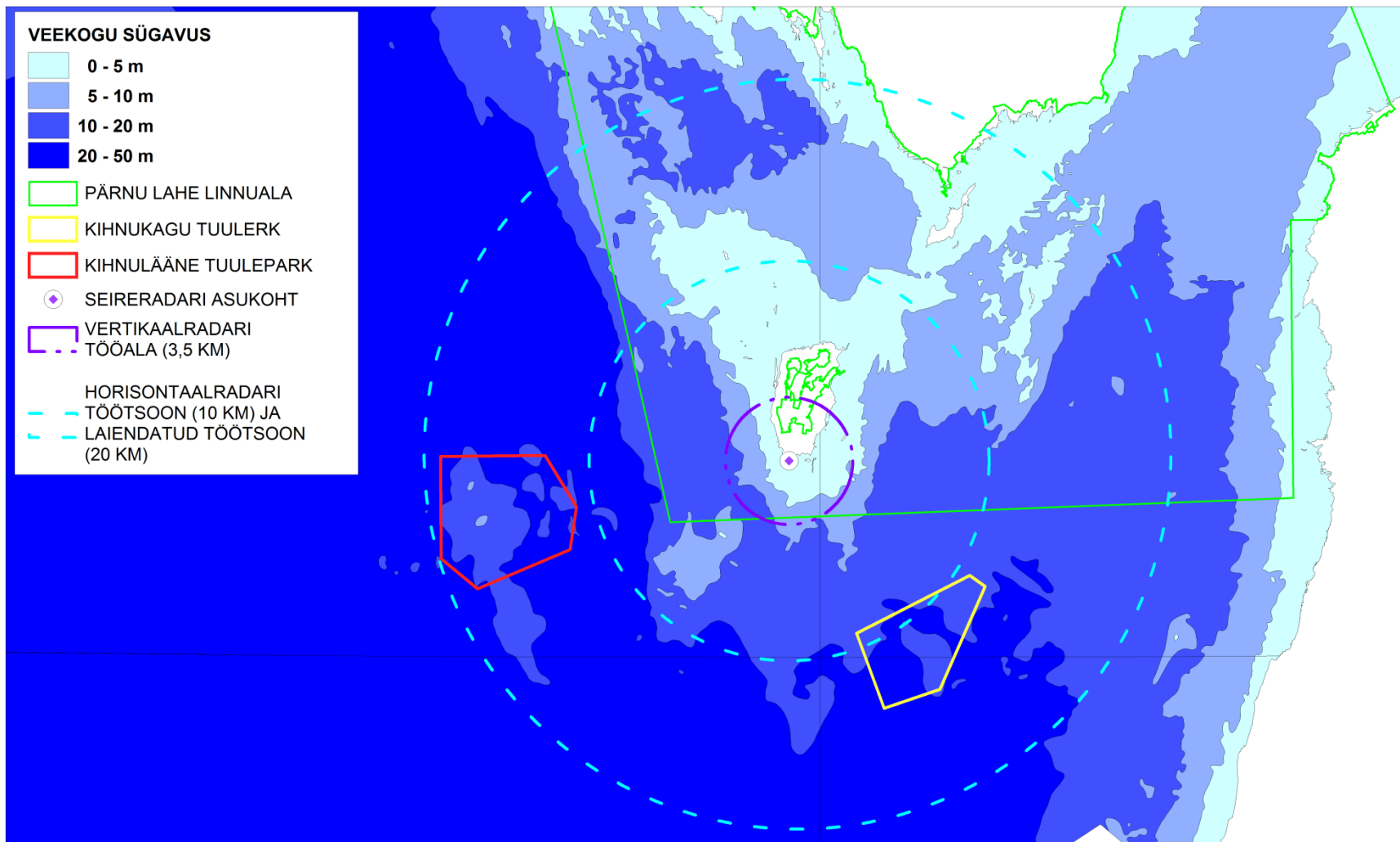


Tulevik taastuvenergiat

Hinnad USD/MWh



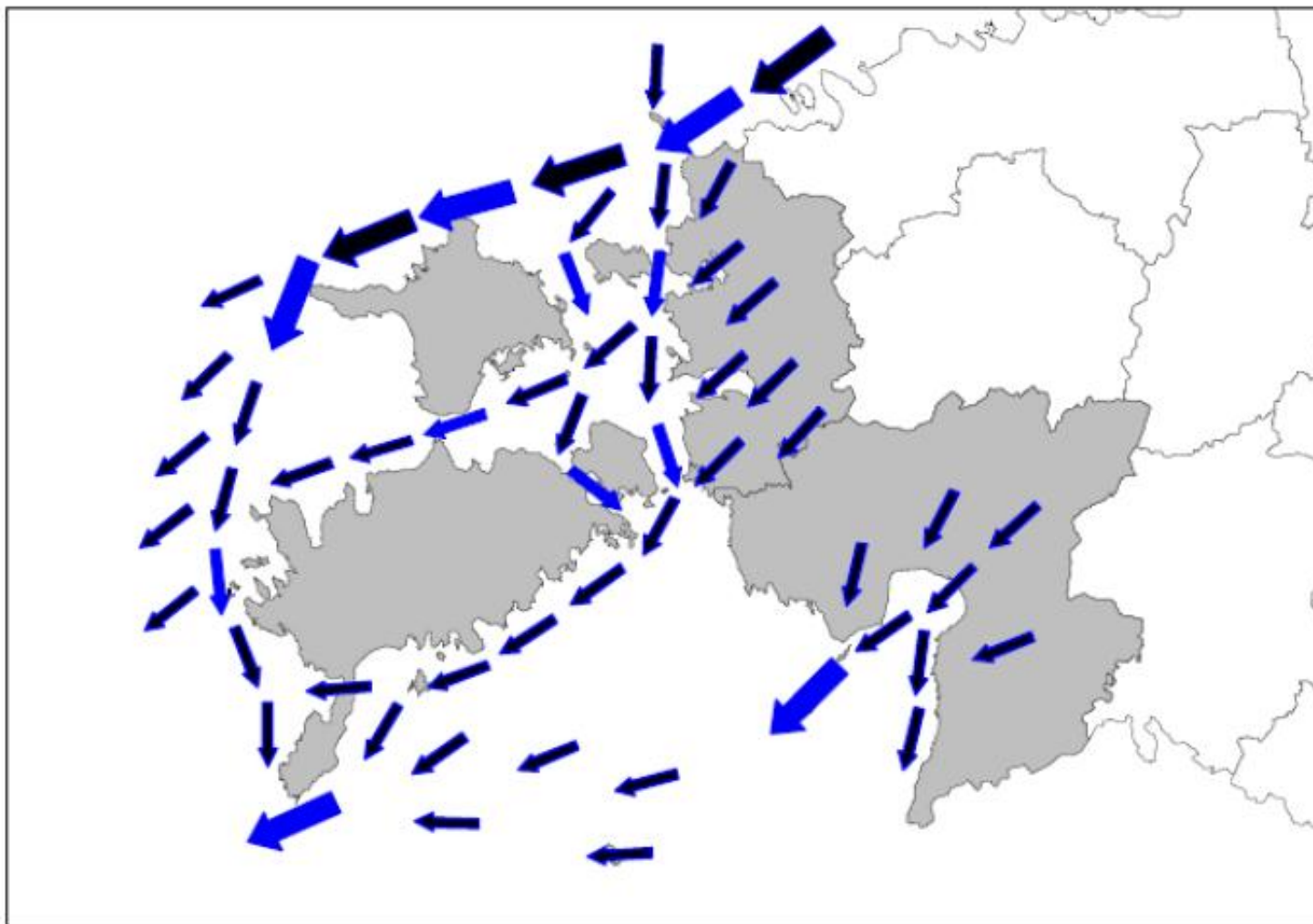
Lüvi lahe meretuulepark



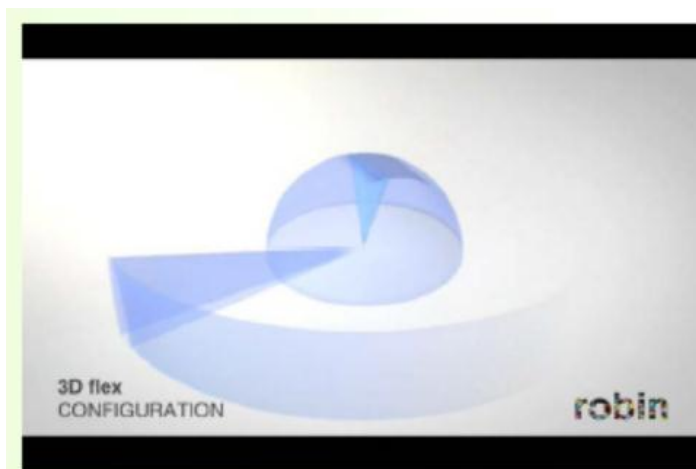
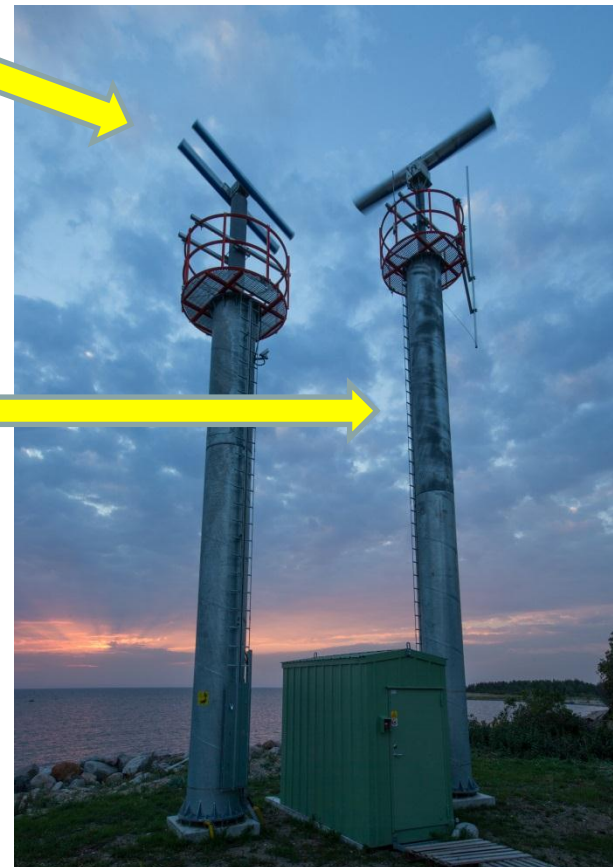
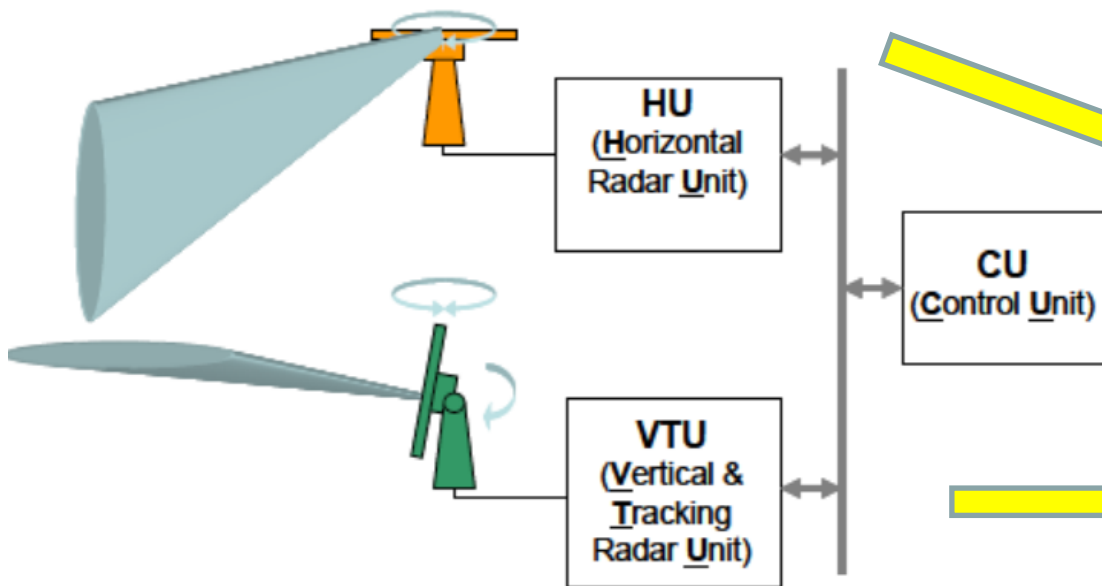
Autor: Mati Kose

Liiwi lahe meretuulepark

- Veelindude sügiserände jaotumus Lääne-Eestis. Suured nooled: >0,5 milj. veelindu, väiksed nooled: >0,1 milj. veelindu, heledad nooled – rände pudelikaelaalad (Leito jt., 2011):

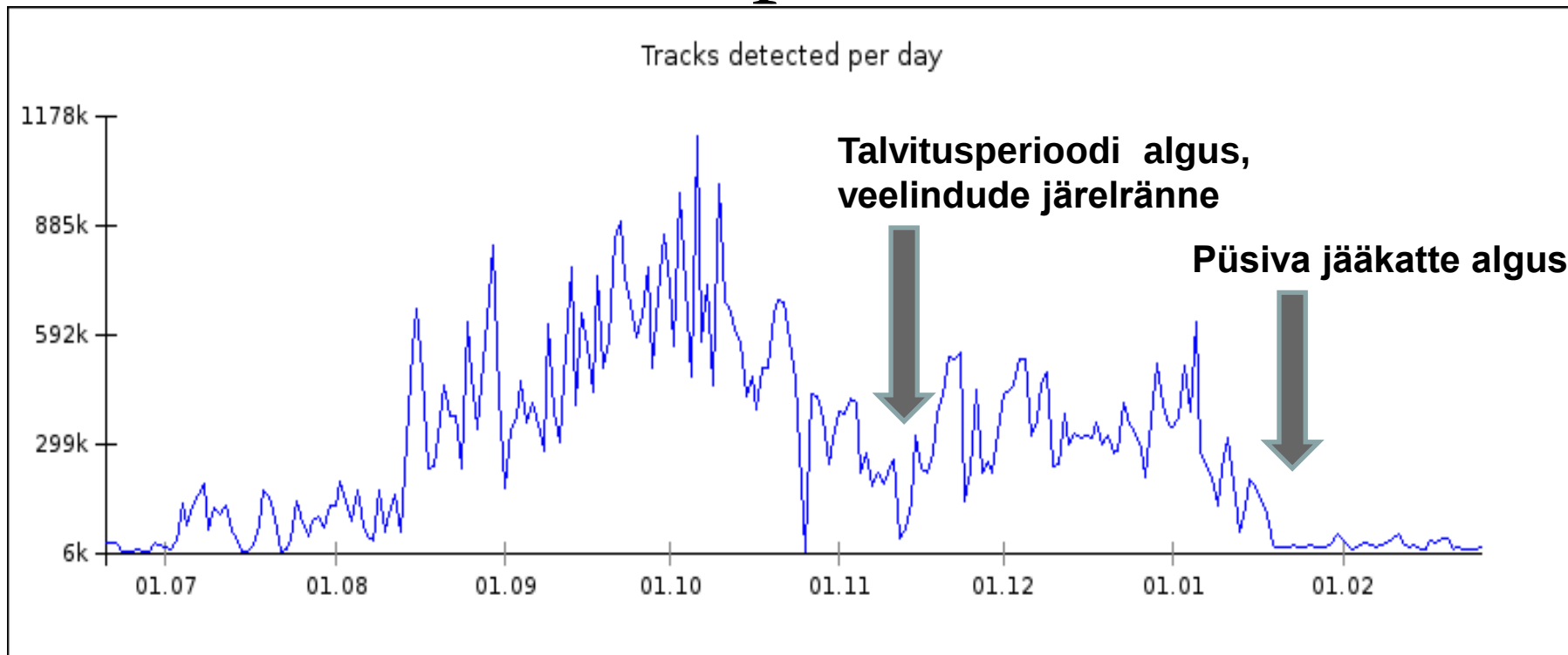


Liivi lahe meretuulepark

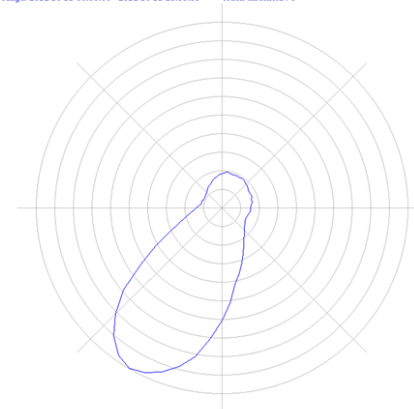


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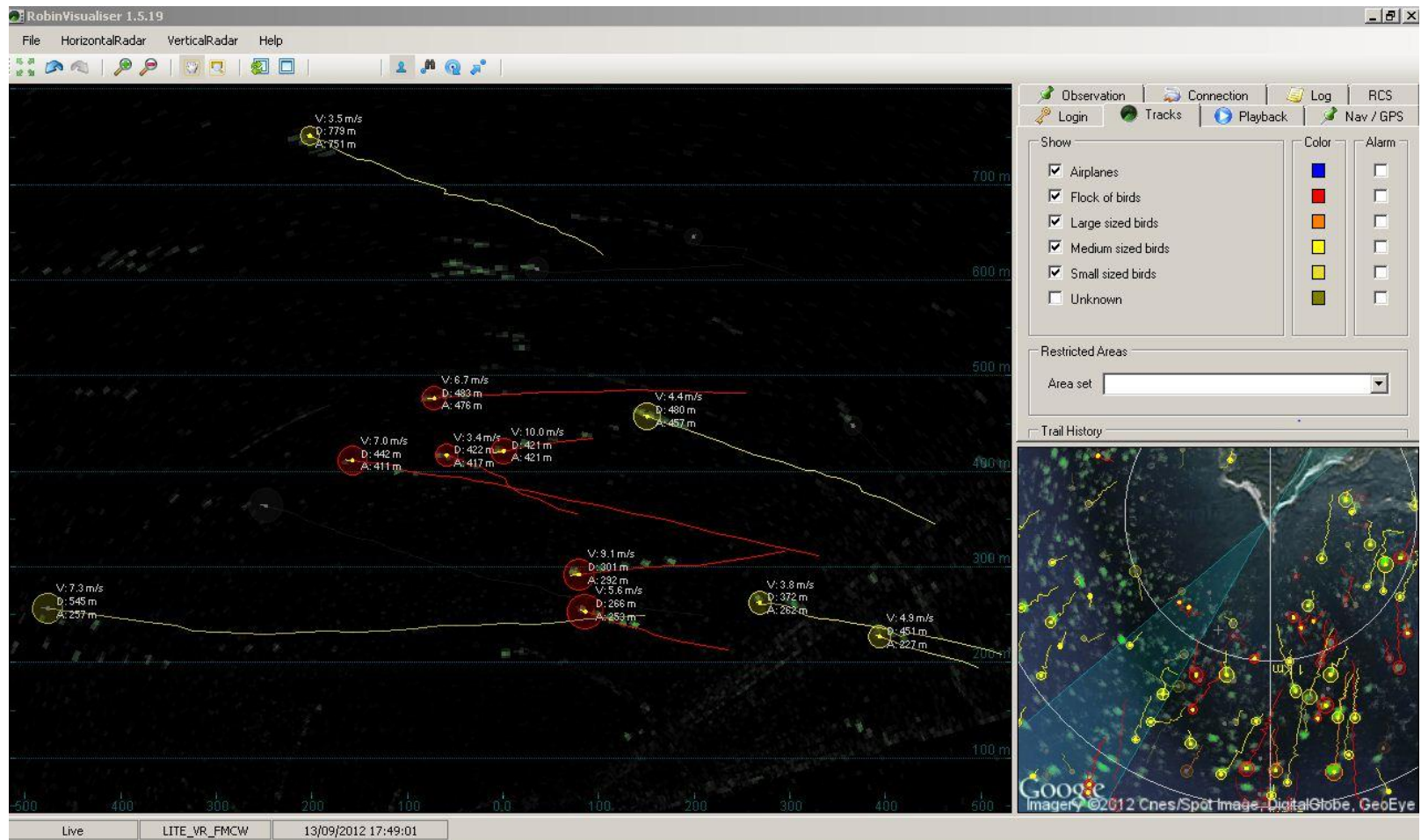


Radar Kibuu Tracks analyzed: 390312
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Track threshold: 6



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Liivi lahe meretuulepark



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WEST



Tänan.