

Renewable energy for local communities

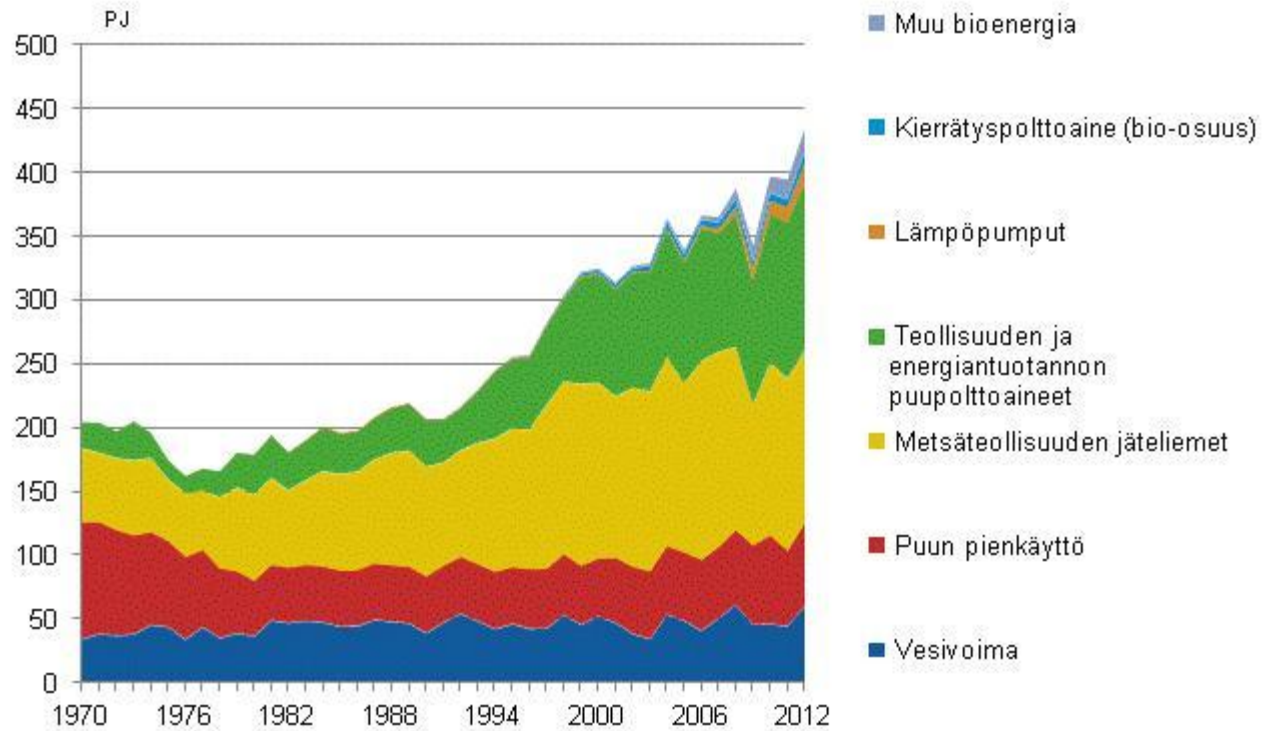
Karoliina Auvinen, Finnish Local Renewable Association
WARES Conference, Oulu, 4.6.2014

Finnish Local Renewable Energy Association

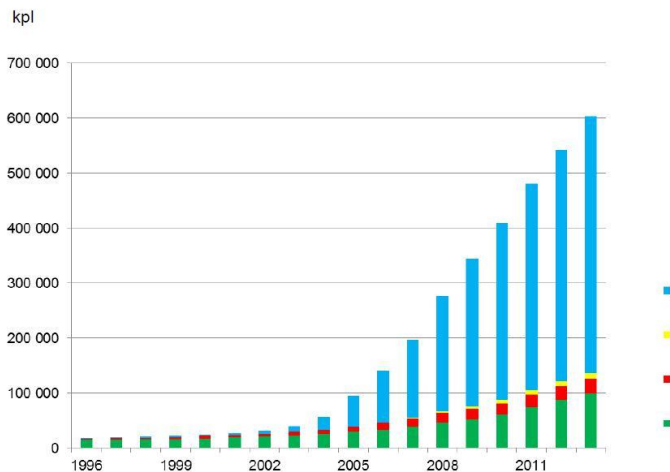
- Founded in 2013
- Goal is to make the use of renewable energy as easy as possible for Finns.
- Association gathers actors of renewable energy and smart energy use for cooperation to gain more visibility and policy influence.
- Activities: communications, working groups, seminars, lobbying, projects
- We are interested in partnerships!



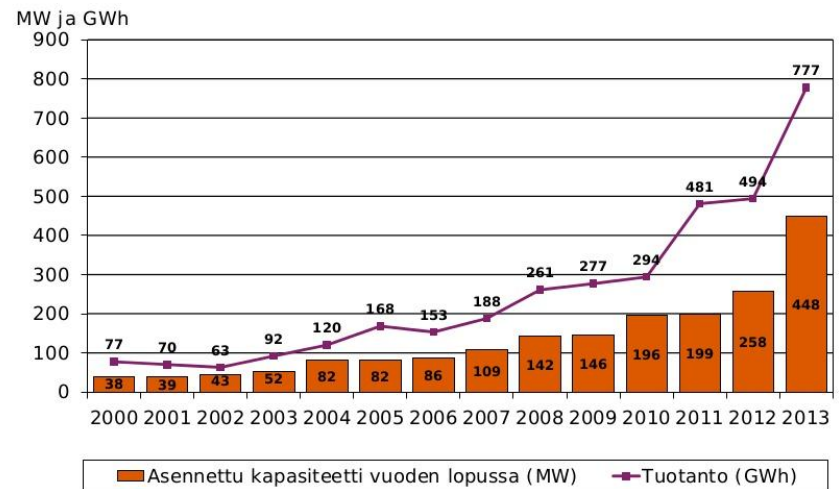
Renewable energy is growing in Finland



Lämpöpumppujen kokonaismäärän kehitys 1996 kappaleina



Tuulivoimatuotanto ja kapasiteetti vuosittain



Larger solar electricity installations in Finland

- Astrum business center, Salo: 322 kW
- ABB Oy, Helsinki: 181 kW
- Lappeenranta University of Technology LUT: 169,5 kW
- Vaisala Oyj, Helsinki: 101 kW
- Skanssi shopping center, Turku: 70 kW
- Kiilto Oy, Lempäälä: 66 kW
- Environmental Office of Helsinki: 60 kW
- Bus shelter, Espoo: 55,2 kW
- Vacon Oyj, Vaasa: 55 kW
- Swimming hall, Pori: 52,50 kW



100% renewable Finland is possible



Opportunities

- Finland's energy imports cost annually 8,5 billion euros (approx. 4 % from GDP), mostly fossil fuels from Russia -> efficiency and renewable energy can improve trade balance
- economical crisis and 300 000 unemployed people -> transition to renewable energy can create 50 000 new jobs by 2030
- New source of income and jobs for local communities, especially in rural areas
- Great export potential

Local energy project cases

- Kempele
 - Jepua village
 - Mustarinda art residency
 - Saarelan Energia
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- Many local energy projects are still on paper or have failed, but interest is growing and new projects are emerging...

Challenges

- “Big is beautiful” culture
- New solutions and technologies = uncomfot zone for many people
- Fear of risks and mistakes in public procurement
- Carbon price, fossil fuel costs or investments are not seen as risks

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- Financial market undeveloped, for example green loans or renewable energy bonds are not available yet
 - leasing for energy efficiency improvements and heat pumps emerging
- Lack of economical incentives for distributed generation
- Different construction permitting processes around the country
- Taxation for 50 kW-2MW production units and reporting bureaucracy
- “Smart” metering doesn’t work

Proposals

- New energy policy for growth and employment
 - endorses Finnish own resources such as technology, knowledge, employment
 - based on total energy costs instead of end-user electricity prices for energy intensive industries
- Economical level playing field:
 - Less incentives for fossil fuels and energy wasting
 - More incentives for distributed renewable energy and smart energy use
- Free legal counselling for municipalities and public organizations about procurement processes
- Unified permitting processes by law
- Metering variations can be fixed with net billing regulation (minimum in one hour basis)

Thank you!

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Working Group

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References

- Halme, Hukkinen, Korppi-Tommola, Linnanen, Liski, Lovio, Lund, Luukkanen, Nokso-Koivisto, Partanen, Wilenius. 2014. New energy policy for providing growth and employment. <https://jyx.jyu.fi/dspace/bitstream/handle/123456789/43432/New%20energy%20policy%20for%20providing%20growth%20and%20employment.pdf?sequence=1>
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