



VTT

Major challenges create major opportunities

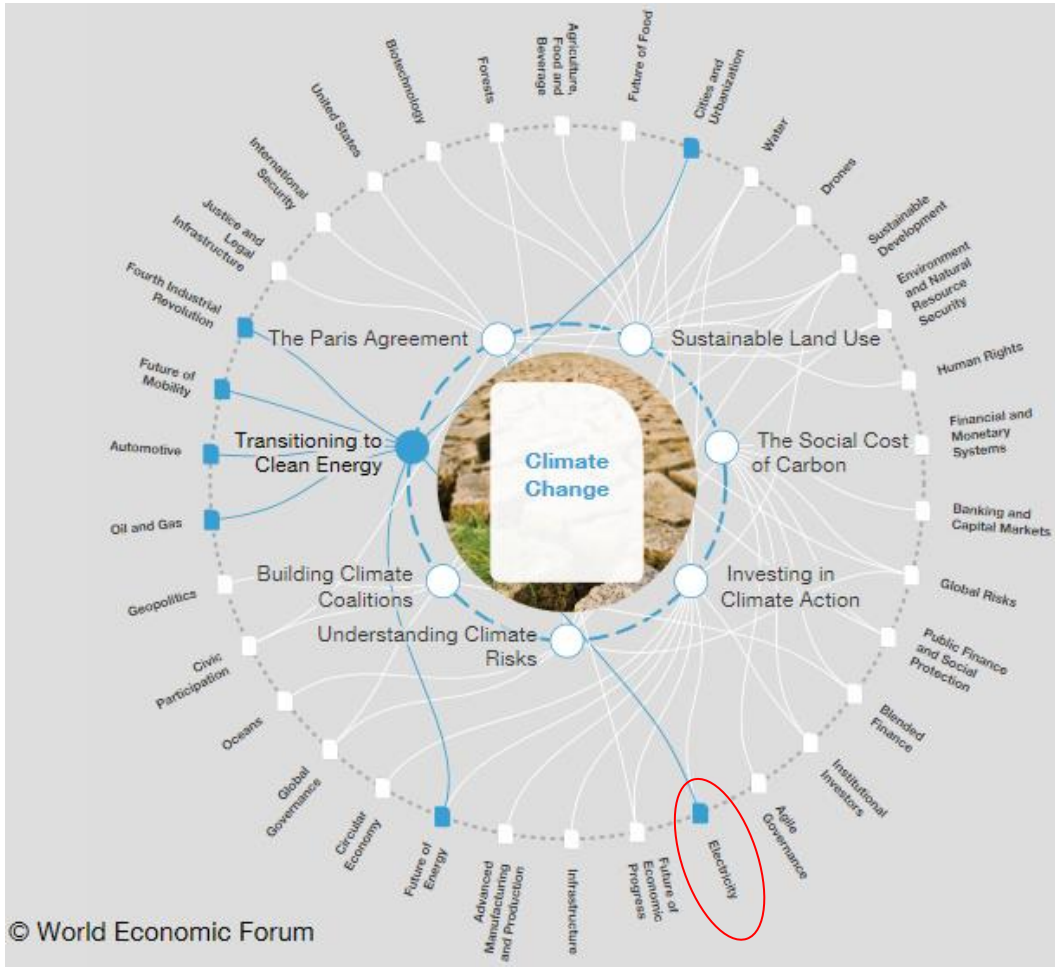
**Kalle Kantola,
Vice President, VTT**

14/06/2019 VTT – beyond the obvious

70%

of GHG emissions
come from transport,
energy and industry.



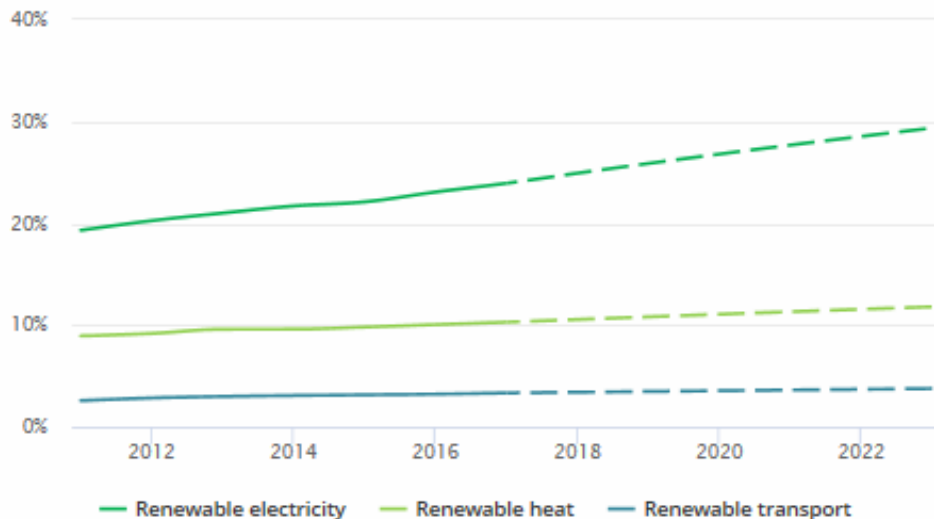


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**Big challenges
are complex and
systemic**

**A huge potential
for innovations!**

Share of modern renewable energy by sector, 2011-23



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**Renewable
electricity seems
to be trending
the most**

← Finland

June 12, 2019 5:03 PM

122g

Carbon Intensity
(gCO₂eq/kWh)

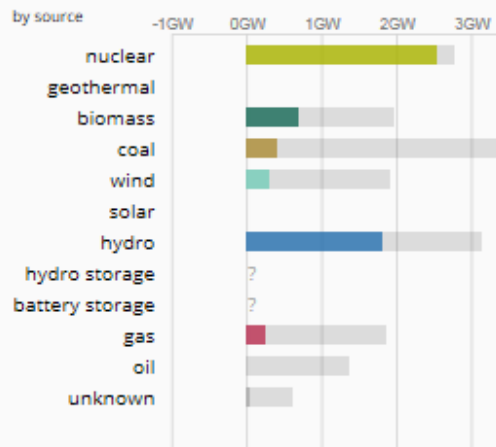
88%

Low-carbon

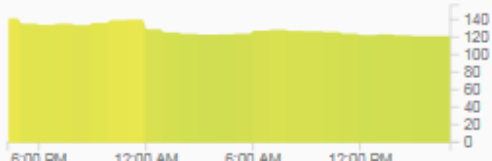
46%

Renewable

Electricity production | Carbon emissions

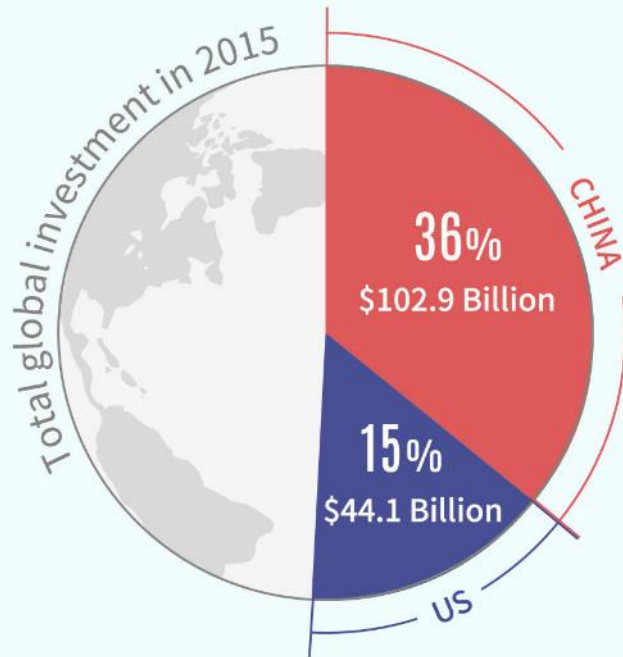


Carbon intensity in the last 24 hours

↓ Get historical data, marginal and forecast API [🔒 pro](#)

In Finland we have
a good basis to
test and drive
electrification
further

CHINA IS LEADING GLOBALLY
IN RENEWABLE ENERGY INVESTMENT



**The great
opportunities are
abroad...**

China wasted enough renewable energy to power Beijing for an entire year, says Greenpeace



Reuters

Published: 3:53pm, 19 Apr, 2017 ▾

...Who have a much greater problems which our solutions can solve.



We need to co-operate in order to make big things...

FINANCIAL TIMES

Opinion **EU tech regulation**

There is a 'third way' for Europe to navigate the digital world

Silicon Valley's libertarianism and China's authoritarianism are not the only paths

JOHN THORNHILL

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**This is the
recipe for
Europe and we
are doing that
already!**

...many of the most interesting areas for the use of tech are in heavily regulated sectors, such as healthcare, education, energy and transport. **If Europe can develop a mutually beneficial relationship between public sector innovators, entrepreneurs and regulators, that fosters innovation while protecting citizens**, it may be in with a shout....