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FUTURE ENERGY SOLUTIONS

“Towards Energy Independent Europe”

Opportunities of the green transition:
economic growth, productivity, competitiveness

Helena Sarén
Head of Zero Carbon Future mission, Business Finland

helen.saren@businessfinland.fi
LinkedIn: <https://bit.ly/2Mksnrm>
@phsaren

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**Code Red
for Humanity**

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Energy as an enabler



Finland carbon neutral by 2035

Finland carbon negative by 2050

Finland coal phase-out in 2029

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Someone has to stand up



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Time Horizon



MAJOR SHIFTS IMPACTING THE EVOLUTION OF THE POWER SECTOR IN THE 2020s



Renewables Dominate Investment
New capacity investment will stay high as decarbonisation agenda drives investment



Decade of Decentralisation
A total of \$846.1 billion to be invested between 2020 and 2030



Virtual Power Plants
Increasingly important in ensuring the effective deployment of decentralised energy



Growth in OPEX-based Business Models
Energy Servicing Firms and OEMs promote new business models



Digital Power
Continued investment in digital solutions to boost operational performance



Storage Deployments Surge
Consistently high growth as strong growth in storage adoption continues



Energy Efficiency & Management
Strong growth prospects for demand response and building energy management solutions



Hydrogen: The Disruptor?
Could this be the game changer of the decade?

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Innovations

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Scaling-up

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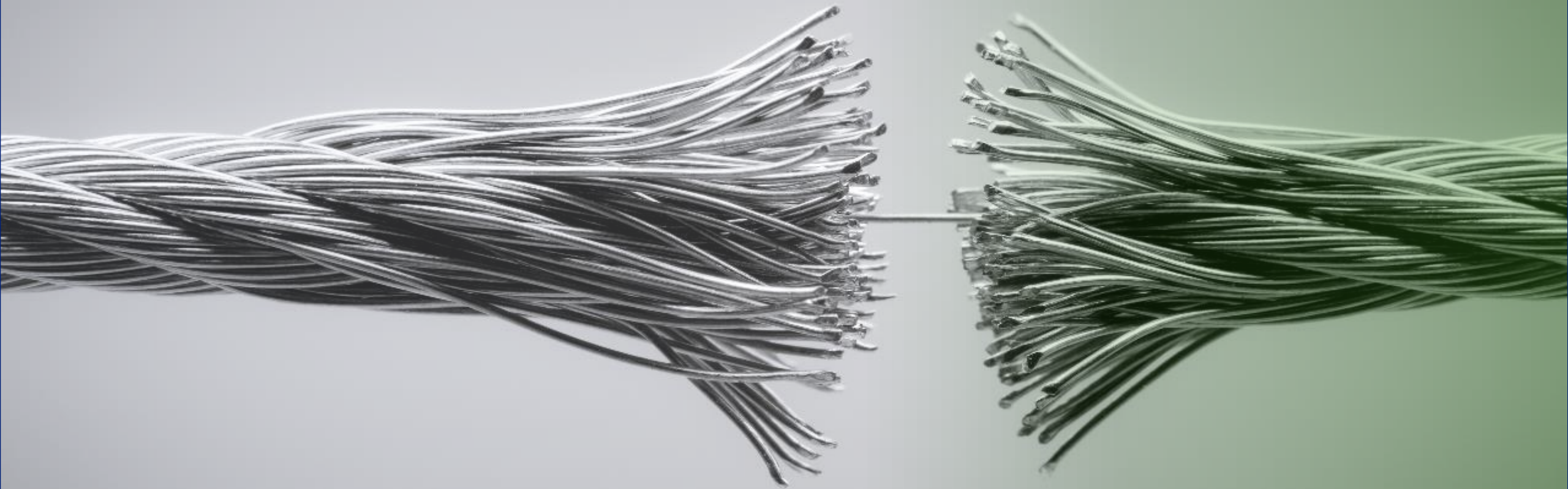
Companies play a key role



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Independence





Old thinking does not work anymore

FINLAND DEFINING THE FUTURE

It is time to
THINK BIG!

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**LAND
OF THE
CURIOUS**



**LUT
University**



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**One step closer
with curiosity**

Thank you