



EUROPEAN UNION



# EU MISSIONS

## ADAPTATION TO CLIMATE CHANGE



Prof. Taina Tukiainen, Mission Board  
8th GLORIA workshop 22 May 2024 in Brussels:  
*"Corporate R&D investment for the support of EU's long-term  
competitiveness in a context of green and digital transition"*

#EUmissions #HorizonEU #MissionClimate

# Decarbonization and economic growth must go hand in hand to maintain competitiveness in the global markets



## COMPETITIVENESS

Climate policy and industrial competitiveness reinforce each other, and they must go hand in hand



## INDUSTRY

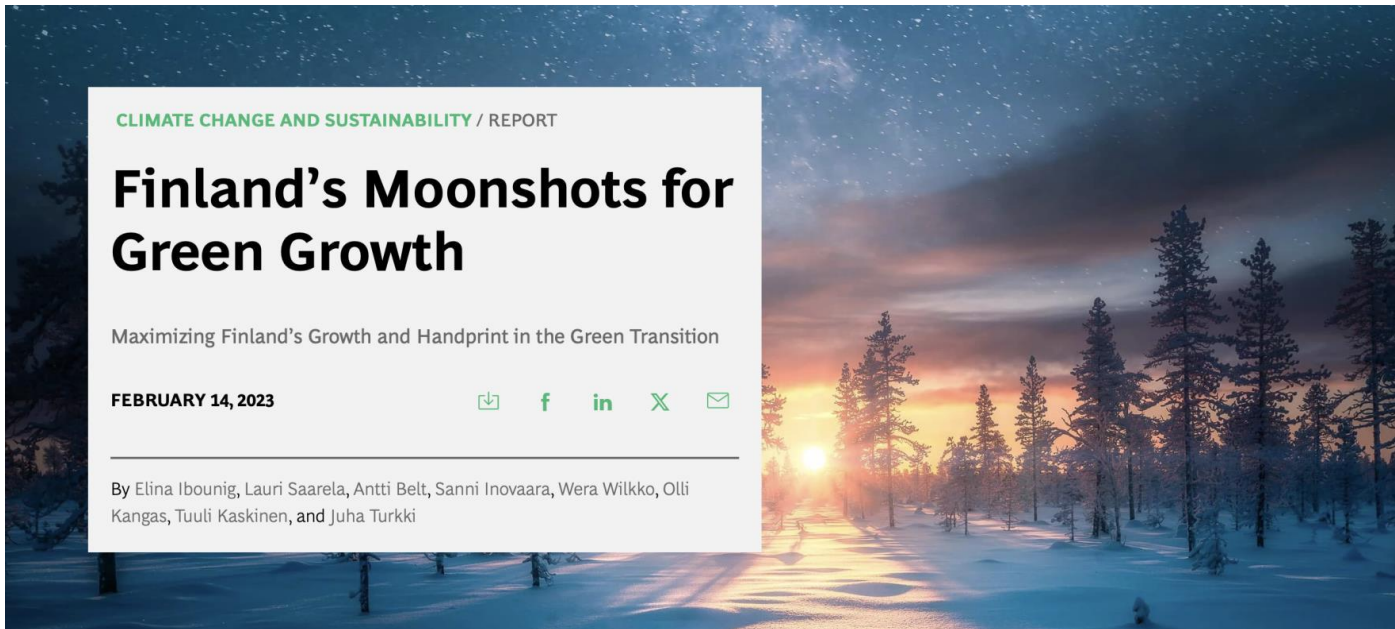
A competitive EU industry is crucial to ensuring that climate targets are met, and that the EU maintains its position as a global leader in climate and technology.



## STRATEGIC INDEPENDENCE

"Maintaining our strategic independence requires a stronger industrial policy and EU-level funding, as well as broader implementation of innovation and new technologies."

*European Green Deal*



CLIMATE CHANGE AND SUSTAINABILITY / REPORT

# Finland's Moonshots for Green Growth

Maximizing Finland's Growth and Handprint in the Green Transition

FEBRUARY 14, 2023



By Elina Ibounig, Lauri Saarela, Antti Belt, Sanni Inovaara, Wera Wilkko, Olli Kangas, Tuuli Kaskinen, and Juha Turkki

## GREEN & DIGITAL:

- 5G/6G
- AI
- QUANTUM/MICROE.
- BIO/NEW MATERIALS
- ① • ELECTRIFICATION

## NET-POSITIVE LIVING

**Vision:** Finland as the leader in providing holistic net-positive living offering, incl. wooden construction, net-zero living solutions, and demand response systems

**Export potential:** €9-12 billion by 2035

②

## BIO-BASED PRODUCTS AND MATERIALS

**Vision:** Finland as the global leader in developing and supplying advanced bio-based solutions, incl. circular textile fibers, circular consumer packaging, long-lasting consumer products, and advanced lightweight biomaterials

**Export potential:** €10-13 billion by 2035

③

## DECARBONIZATION TECHNOLOGY AND SERVICES

**Vision:** Finland as the forerunner in providing smart technology solutions for high-emitting industrial processes, incl. electrification, lifecycle services, and energy system optimization

**Export potential:** €30-32 billion by 2035

④

## CIRCULAR BATTERIES AND GREEN METALS

**Vision:** Finland with a circular battery ecosystem, and Finland as the leading supplier of green specialty steel, and other metals in Europe (e.g., for advanced applications in automotive and aviation)

**Export potential:** €27-29 billion by 2035

⑤

## GREEN HYDROGEN-ENABLED SOLUTIONS

**Vision:** Finland as a competitive country for producing green hydrogen-enabled solutions, incl. green steel, synthetic fuels, green ammonia-based fertilizers, and food proteins

**Export potential:** €10-12 billion by 2035





a tool to foster multi-level governance





## Our statements

"We are world leaders in several key areas..."

SMART  
GRID

MARINE  
SOLUTIONS

SUSTAINABLE  
ENERGY  
PRODUCTION

ENERGY  
EFFICIENCY



DIGITAL SOLUTIONS

Thank you!

ENERGYVΛΛSA