

# Smart Energy Finland achievements and global actions in 2020-2021

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**Responding to the challenge  
of climate change**

**Contributing to the  
transformation  
of the energy sector**

CONNECTIVITY  
SECURITY  
RELIABILITY

The **ENERGY DISRUPTION** will come long before we run out of fossil fuels

Energy investments in **INDUSTRY AND POWER** between 2015-2050 **29.6 USD trillion**

Global market for **BIOENERGY** in 2018: 18.3 bn \$ and in 2020 26.1 bn \$  
▲ 43% increase

Changing roles of **CONSUMERS AND UTILITIES**

Energy investments in **TRANSPORTATION** between 2015-2050 **14.2 USD trillion**



GLOBAL DRIVERS

In 2030s most of energy capacity will be **SOLAR OR WIND, 15-FOLD BATTERY** volume increase, **EVs** are majority

Global market for **W2E** in 2018: 40.3 bn \$ and in 2020 58.9 bn \$  
▲ 46% increase

**BLOCKCHAIN, IOT, AI** set to disrupt energy business, but it is still unclear when and how

Energy investments in **BUILDINGS** btw 2015-2050 **39.6 USD TRILLION**

DATA MANAGEMENT  
GRID FLEXIBILITY

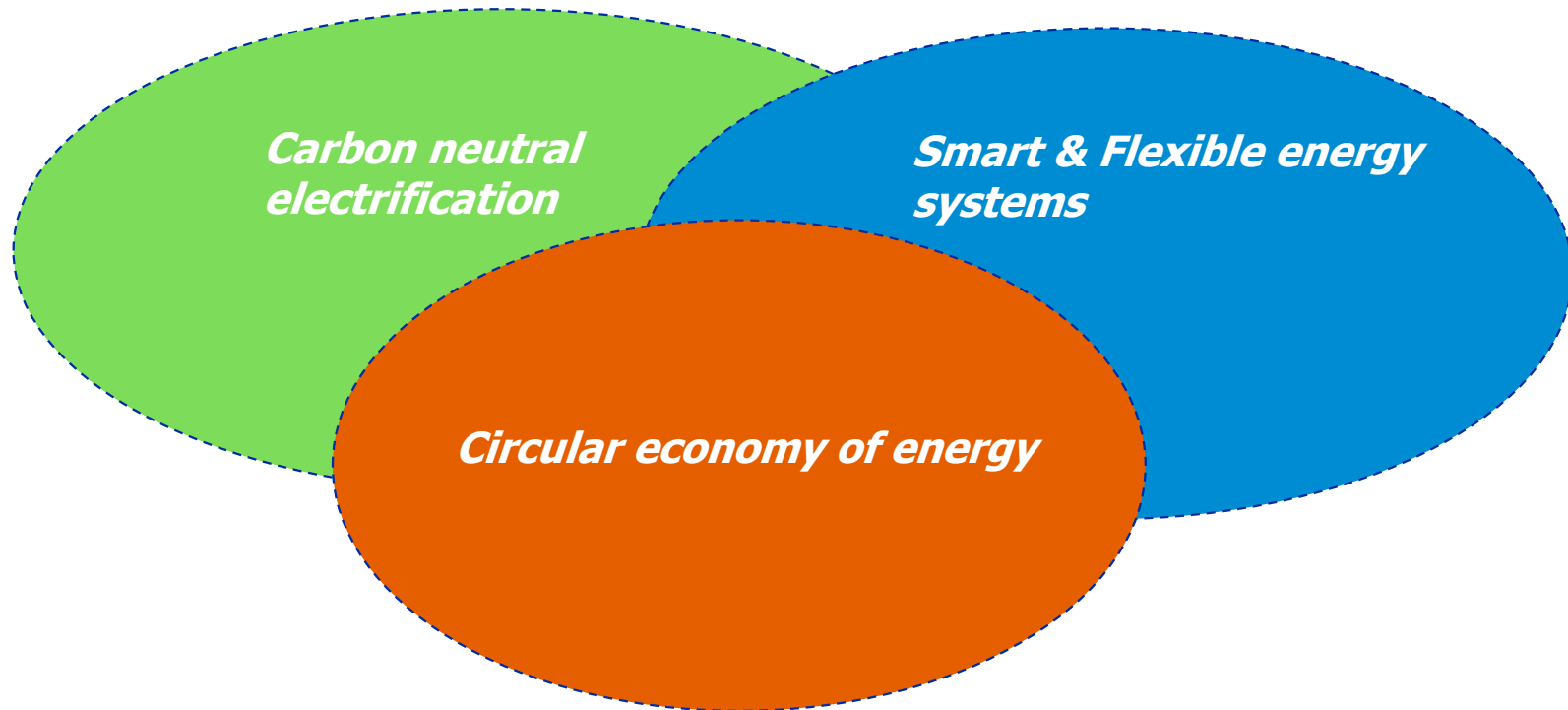




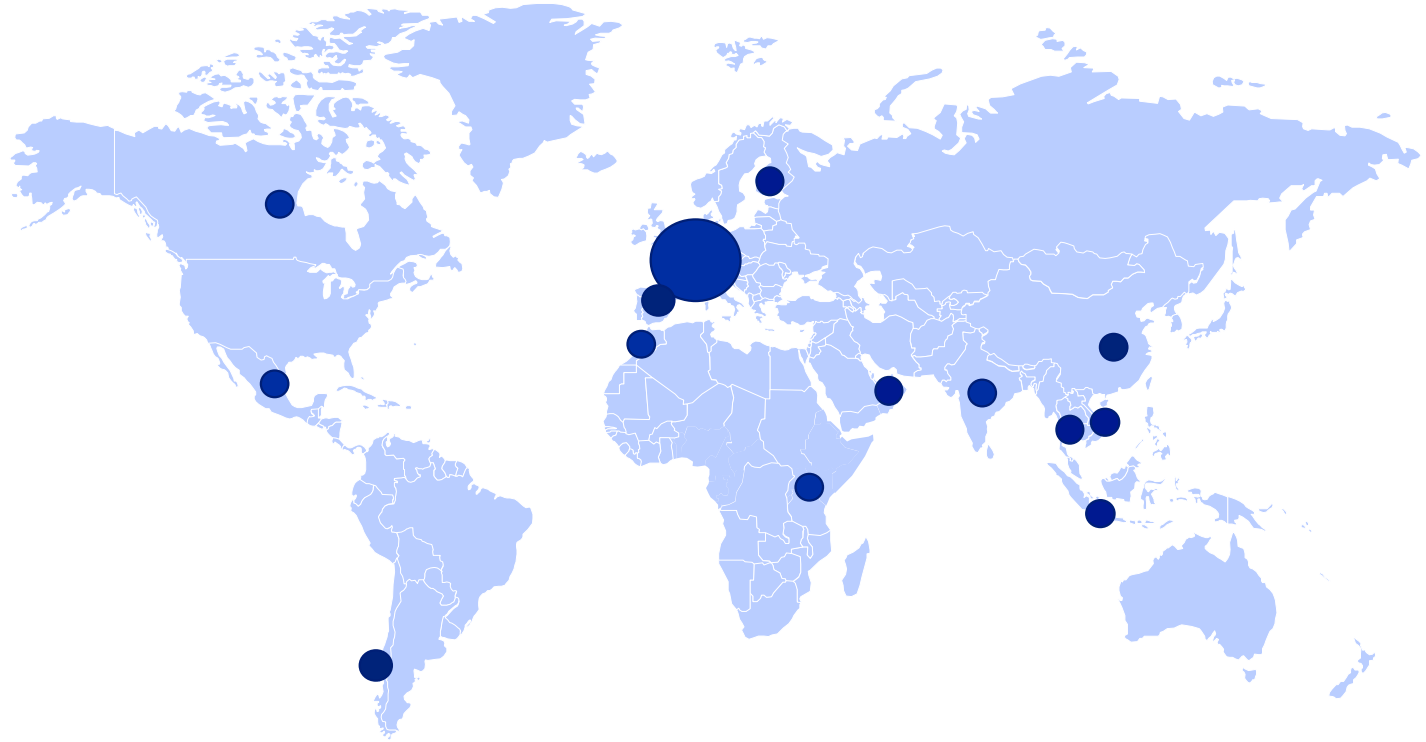
# FOCUS ON GENERATING BUSINESS FOR OUR COMPANIES

- Internationalization and Exports -> in 2019 2 bn€ pipeline globally in Smart Energy Program
- Catalyzes and funds energy-related ecosystems and testbeds
- Platform for local ministries, regulators, public entities to jointly develop sustainable solutions
- Project development & network creation
- Investment funding
- Around 100 companies and organizations in international activities

## **Finland's Smart Energy area Knowledge Landscape**



## SMART ENERGY FINLAND BUSINESS FOOTPRINT IN 2020



# ACTIONS UNTIL END 2020

- Webinars

- In April-May over 10 webinars (end-clients, sales pitching, market info)
- Electric Vehicles and EV charging infrastructure in Indonesia, 15.6.2020
- Growth Opportunities in the Hydrogen Market for the Power Sector by Frost&Sullivan, 16.6.2020
- Waste to Energy in Indonesia, 18.6.2020
- More webinars to come

- Visits

- Glasgow September
- Japan 9.-10.11.
- Virtual World Circular Forum
- Indonesia early December



**BUSINESS  
FINLAND**

**Thank you**

