



ENERGY STORAGE

WORLD-CLASS PLATFORM FOR BATTERY MANUFACTURING

BUSINESS OPPORTUNITIES IN FINLAND

The EU Battery Alliance is calling for 10-20 gigafactories to be established in Europe in response to the fast-growing demand for batteries in the electric vehicle market and other sectors.

Finland offers prime platform with world-class expertise across the battery production value chain.

RELIABLE SOURCE OF CRITICAL RAW MATERIALS

Already today, Finland is a significant producer of battery chemicals with deposits of all key minerals used in battery production. In addition, we are the only country in Western Europe with active cobalt mining.

Finnish company Freeport Cobalt supplies 20% of the global demand for the cobalt chemicals currently used in lithium-ion batteries.

Three more Finnish mining operators, Terraframe, Keliber and Nor Nickel, are also currently expanding the production of nickel, cobalt and lithium. Mineral and chemical production in Finland is conducted in accordance with robust environmental regulations and stringent sustainability principles.

SUSTAINABLE RAW MATERIAL PRODUCTION

EXPERTISE ACROSS THE BATTERY PRODUCTION VALUE CHAIN

Finnish companies offer competitive concepts and know-how across the entire battery production value chain, with world-class expertise in chemical and process industries, engineering and energy.

INNOVATIVE AND STABLE

Finland is one of the most innovative countries in the world, which makes it a great place for testing and piloting the next generation of battery chemistries, recycling technologies as well as electrification solutions for transport and industrial machineries for both land and sea use.

CO₂ FREE ENERGY AT ONE OF THE LOWEST COST IN EUROPE

RELIABLE BUSINESS ENVIRONMENT

Consistently ranked among the best business environments in the world, Finland is known for its highly educated

workforce, reliable infrastructure, stable and predictable regulation. More over Finland is recognized as having a leading role globally in areas like the digital transformation, sustainability and circular economy.

ONE OF THE LOWEST ENERGY COSTS IN EUROPE

Finland has excellent availability for CO₂ free energy at one of the lowest cost and most reliable delivery in Europe.

With the cool northern climate, long coastline and thousands of lakes, Finland produces an abundance of low cost cooling power for industrial processes.

99,9997% TRANSMISSION RELIABILITY

ENERGY STORAGE INDUSTRY OUTLINE 2018

WHAT FINLAND OFFERS FOR COMPANIES LOOKING TO SUPPLY THE GROWING DEMAND

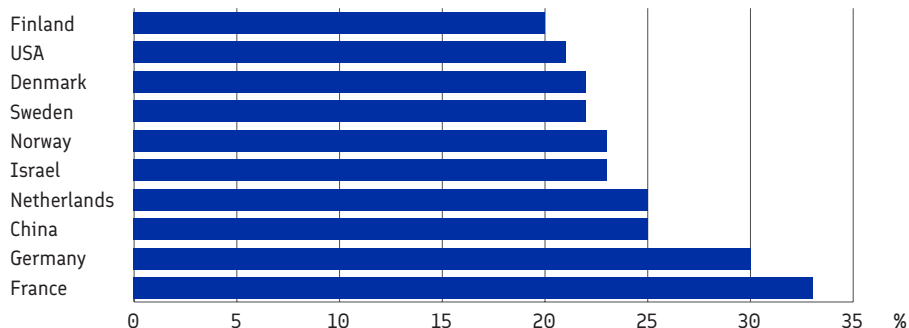
- INTEGRATED NORDIC ELECTRICITY MARKET WITH ONE OF THE LOWEST ELECTRICITY PRICES
- CO₂ FREE ENERGY PRODUCTION AVAILABLE, WITH 99,9997% TRANSMISSION RELIABILITY (2017)
- WORLD-CLASS PROCESS TECHNOLOGIES
- AVAILABILITY OF ENGINEERING TALENT
- GATEWAY TO EUROPEAN MARKETS DUE TO SEA AND RAILWAY LOGISTICS, EU-MEMBERSHIP AND EUROZONE

FINLAND AS A COUNTRY

- MOST STABLE ¹⁾ AND PREDICTABLE BUSINESS ENVIRONMENT ²⁾
- WORLD-CLASS EDUCATION SYSTEM ³⁾
- SAFEST ⁴⁾ AND BEST-GOVERNED COUNTRY IN THE WORLD ⁵⁾
- LEAST CORRUPTED ⁶⁾
- SOCIALLY MOST PROGRESSIVE ⁷⁾, WITH WORLD'S MOST TRUSTED POLICE ⁸⁾ AND THE SOUNDEST BANKS. ⁹⁾

ONE OF THE LOWEST CORPORATE TAX RATES IN EUROPE (20%)

Corporate tax rates 2018 by Country ¹⁰⁾



KEY RAW MATERIALS PRODUCED SUSTAINABLY AND ACCORDING TO THE ENVIRONMENTAL REGULATIONS

GROWING DEMAND FOR LITHIUM-ION BATTERIES

Energy and climate policies that support sustainable development are generating a need for new energy storage solutions.

Key drivers in this field include the electrification of transport, the integration of renewable energy

production such as wind and solar power, an increased need for grid resiliency and security of energy supply as well as new, emerging business models.

Global demand for batteries is expected to grow more than tenfold during the coming years, from approximately 20 GWh/year to more than 200 GWh/year by 2020.

Sources:

¹⁾ The Fund for Peace: Fragile States Index 2016. ²⁾ Global Innovation Index: Global Innovation Index 2016. ³⁾ World Economic Forum, The Global Competitiveness Report 2016-2017. ⁴⁾ World Economic Forum, The Travel & Tourism Competitiveness Report 2017. ⁵⁾ Legatum Institute, The Legatum Prosperity Index 2017: Finland ⁶⁾ Transparency International, Corruption Perceptions Index 2017 ⁷⁾ The Social Progress Imperative, 2017 Social Progress Index: Finland ⁸⁾ Eurostat, Average rating of trust ⁹⁾ World Economic Forum, The Global Competitiveness Report 2017-2018: Soundness of banks ¹⁰⁾ Deloitte global www2.deloitte.com/content/dam/Deloitte/global/Documents/Tax/dttl-tax-corporate-tax-rates.pdf

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