Flexibility, regulations and new risks opportunities

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### **Background & three hats**

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Chairman of the board, Electric Mobility
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Board member & ex-CIO, Intelligent Transportation Society of Finland



Financial Times & Statista name Virta Europe's long-term growth champion







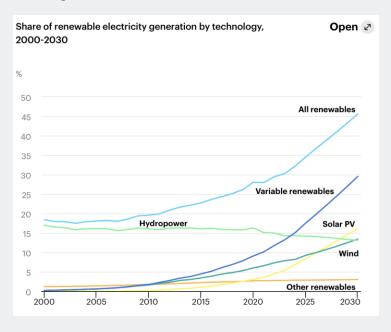




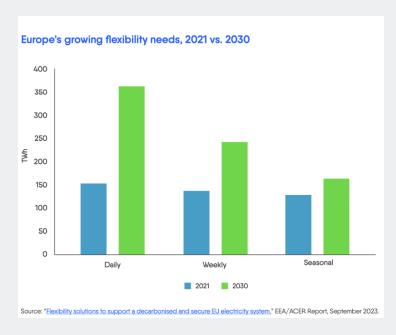




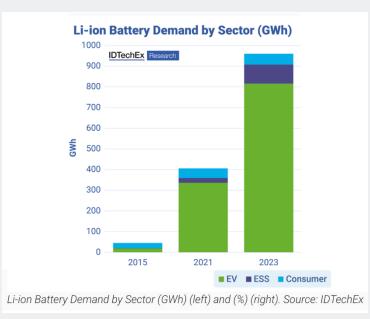
## Renewables will double globally within the next 5 years, and EVs are required to stabilize the energy system



Variable energy production is projected to double globally over the next five years from 13% to 30% (IEA 10/24)



This shift creates volatility in energy production, requiring greater flexibility in the energy system while also increasing price volatility. (Eurelectric 3/25)



EVs are batteries on wheels, and 85% of new Li-ion battery capacity went to EVs in 2024. BESS has a 10% share of new battery capacity (IDTechEx)

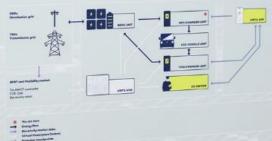




#### **Virtual Power Plant** Ruoholahti Demo Site

A live testbed for the technologies and services required for managed orchestration across the electric vehicle (EV) charging value chain.

Optimizing user experience, costs, and energy use, and aggregating the flexibility of EVs and stationary battery energy storage systems (BESS) into a single grid-integrated resource: a virtual power plant (VPP).





Drowned by a tsunami of directives, fragmented 'harmonization,' and Brussels-effect rulemaking, the EU is regulating itself into irrelevance—suffocating EV charging innovators with a litigation-driven, 27-variant compliance maze that hikes costs, stalls scale, and hands the future to our global rivals

	AFIR	EPBD	EU data act	VAT in the Digital Age	Digitalizing the energy sector – EU action plan	Fuel quality directive	EU ETS II	ITS Directive
AFIR	-	?	?	?	?	?	?	<b>,</b>
EPBD	?	_	?	?	?	?	?	?
EU data act	The Constitution of Innovation							
VAT in the Digital Age	A New European Renaissance							
Digitalizing the energy sector - EU action plan	By Luis Garicano, Bengt Holmström & Nicolas Petit · Nov 10, 2025							
Fuel quality directive	?	?	?	?	?	-	?	?
EU ETS II	?	?	?	?	?	?	-	?
ITS Directive	?	?	?	?	?	?	?	-



## The UK and Finland are the European leaders in integrating EVs into flexibility markets through V1G and V2G

V1G and V2G-market readiness: assessment of feasibility in European countries in early 2025



#### **UK and Finland shine due to:**

- Early, granular flexibility market design
- → No major regulatory barriers
- Support for aggregators
- Advanced metering and data access
- Technology-agnostic, performance-based procurement for ancillary services
- Strong roaming and EV adoption ecosystems



### New risks-opportunities?

450 billion worth of fossil fuel imports to EU, most for transport. 54 % of energy consumption from imports → EVs reduce this drastically.

- → Unwanted interest towards EVs and charging infra increases
- → Finnish way to enhance resiliency and de-risk charging infra:
  - Cooperation between emergency supply agency Pools Companies.
  - → Companies gain completely new level of risk mitigation assistance.





# Want to learn more? Come and have a chat with me!

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