



**Nordic Energy
Research**

**Nordic experiences in Electric
Mobility – What works?**

What we do

- We are the platform for cooperative energy research and policy development under the **Nordic Council of Ministers**
- We fund R&D to promote a sustainable future
- We contribute to policy-making



What is the Nordic Council of Ministers?

- Forum for inter-governmental co-operation
- Denmark, Finland, Iceland, Norway, Sweden, Faroe Islands, Greenland and the Åland Islands
- Offices in Riga, Tallin and Vilnius
- Promotes Nordic and regional interests and values in a globalised world



Nordic Energy Research

- Strategy
2018-2021



Nordic Energy
Research

Vision

The Nordics as a
global leader in
smart energy

Mission

Progress through
collaboration

Nordic Energy Research

- Strategy
2018-2021

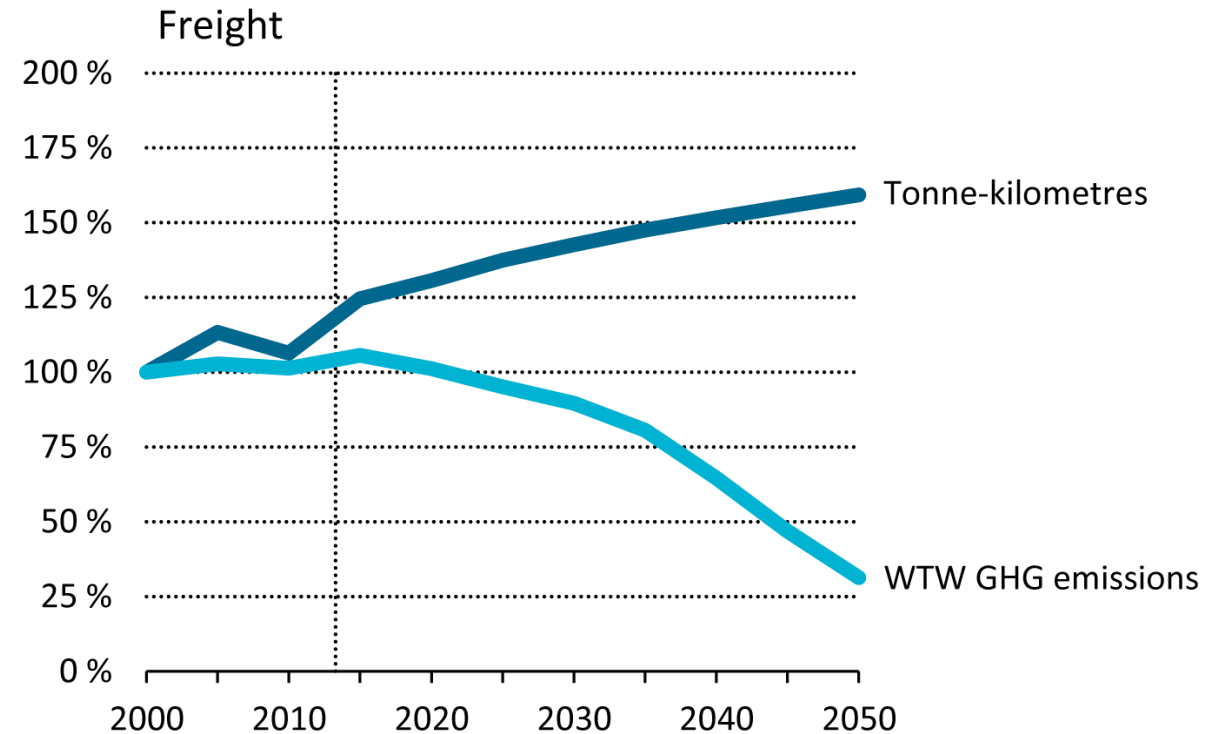
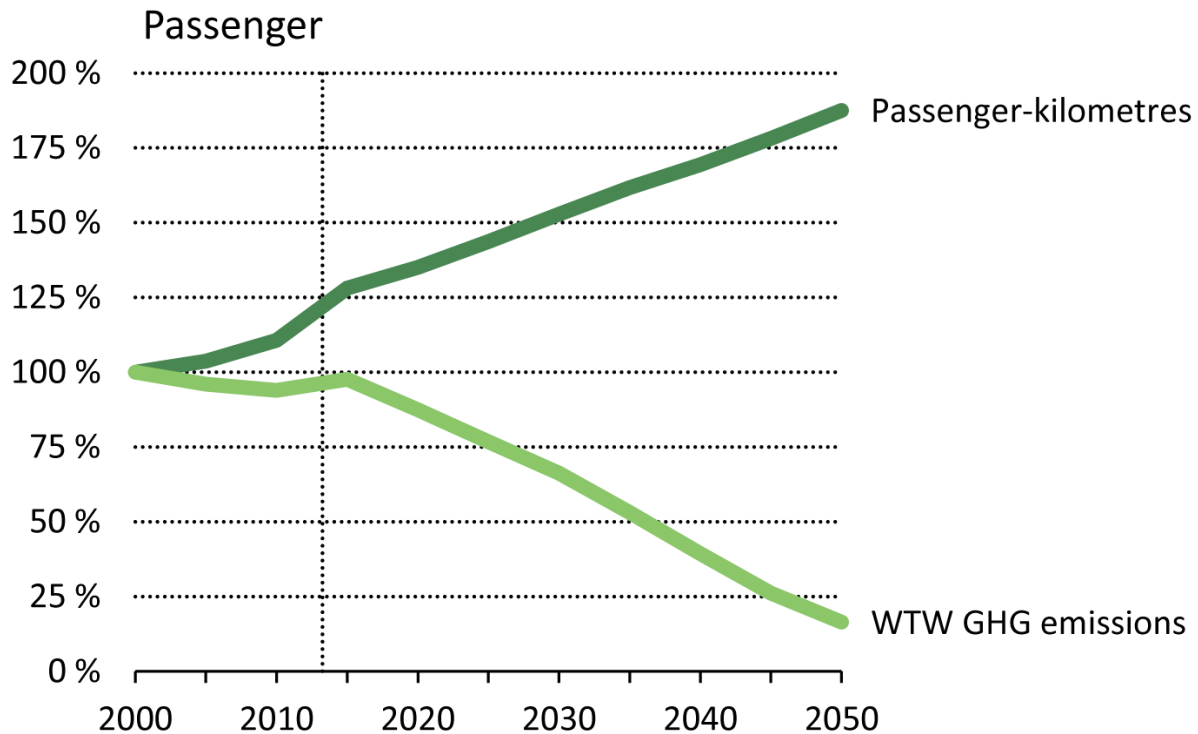


Nordic Energy
Research

Tools for Nordic Collaboration

- Outreach in the Nordics
- Exchange of young researchers
- Meta Studies
- **Nordic-Baltic collaboration**
- Stakeholder co-financing
- Cross-disciplinary research
- Closer collaboration

The common Nordic and Baltic challenge – transport



- Incentives - key enablers!
- Predictability essential!
- Growing markets – greater need for public charging.
- Mobility as a service can assist in meeting targets.
- Loss of tax-revenue - a threat?



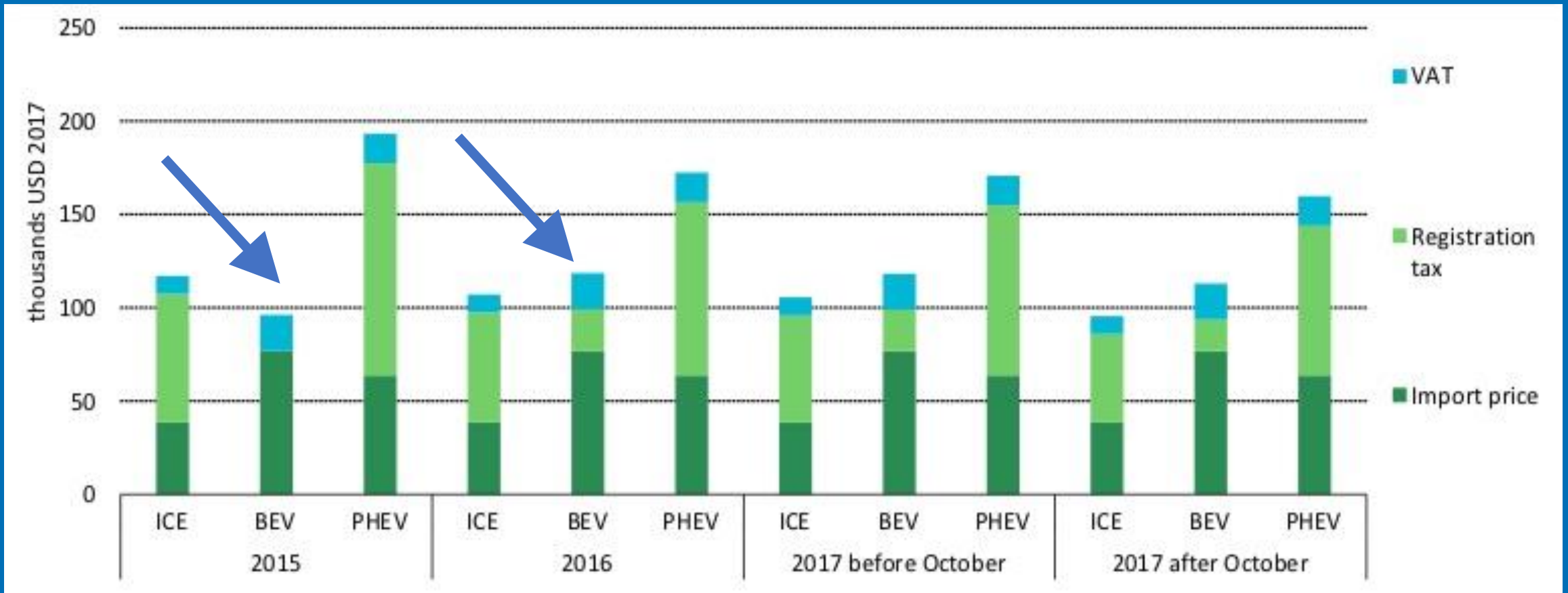
Policy tools

	EV purchase incentives				EV use and circulation incentives				Waivers on access restrictions	
	Registration tax/sale rebates	Registration tax (excl. VAT) exemption	VAT exemption	Tax credits	Circulation tax rebates	Circulation tax exemption	Waivers on fees (e.g. tolls, parking, ferries)	Tax credits (company cars)	Access to bus lanes	Free/dedicated parking
Denmark										
Finland										
Iceland										
Norway										
Sweden										

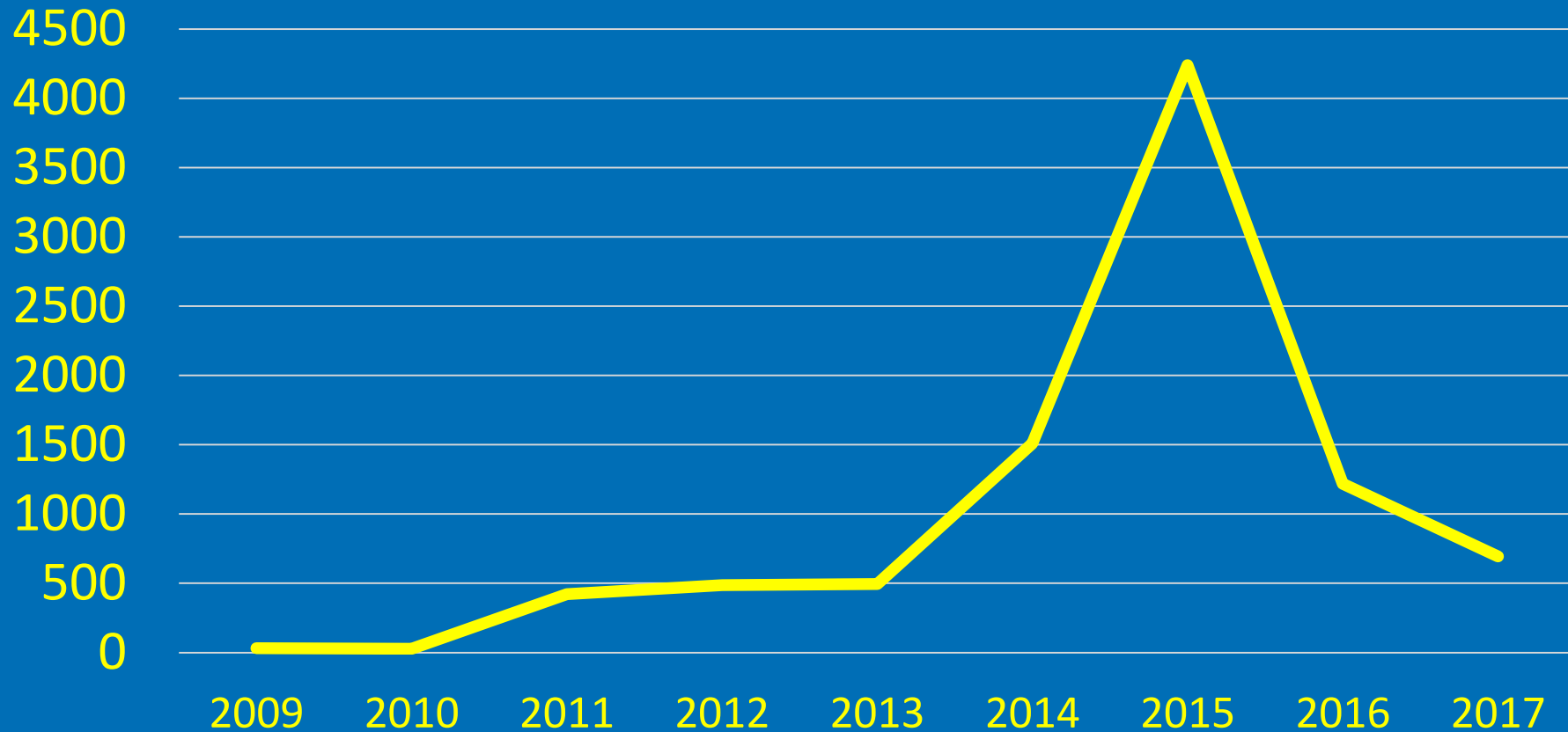
Legend:

	No policy
	Local policy
	National policy

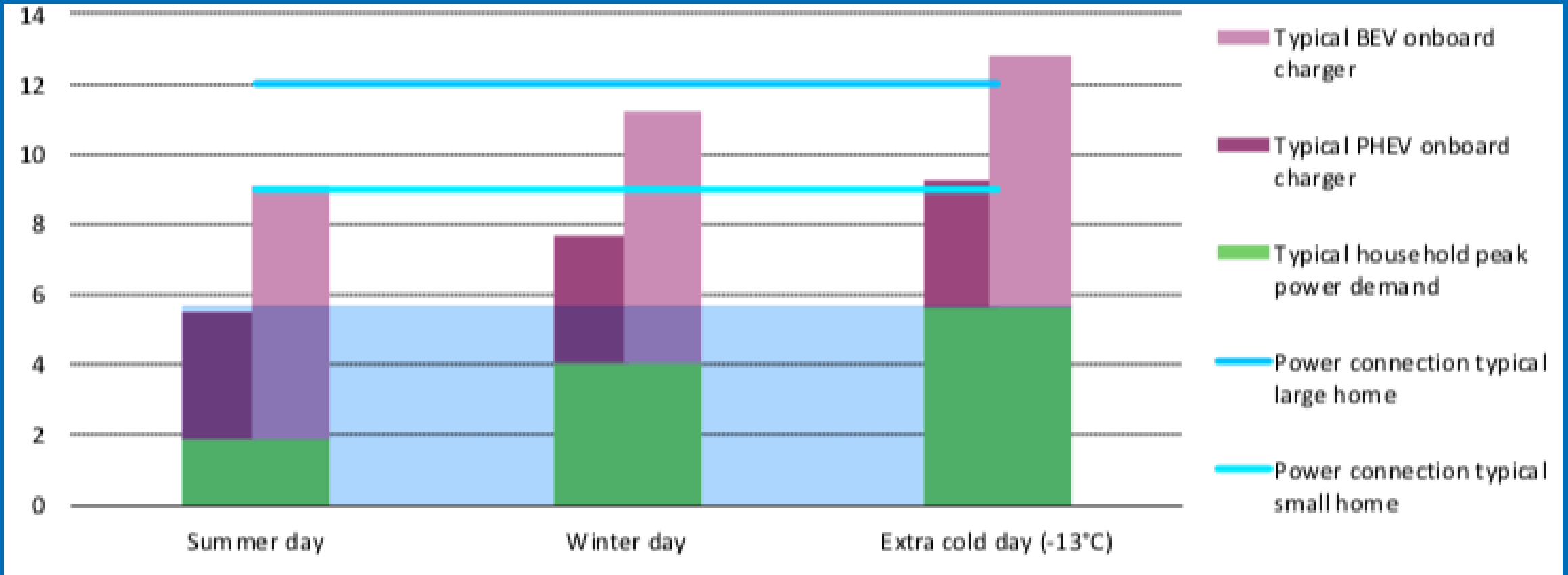
How to kill a BEV market – Denmark 2016



EV sales in Denmark

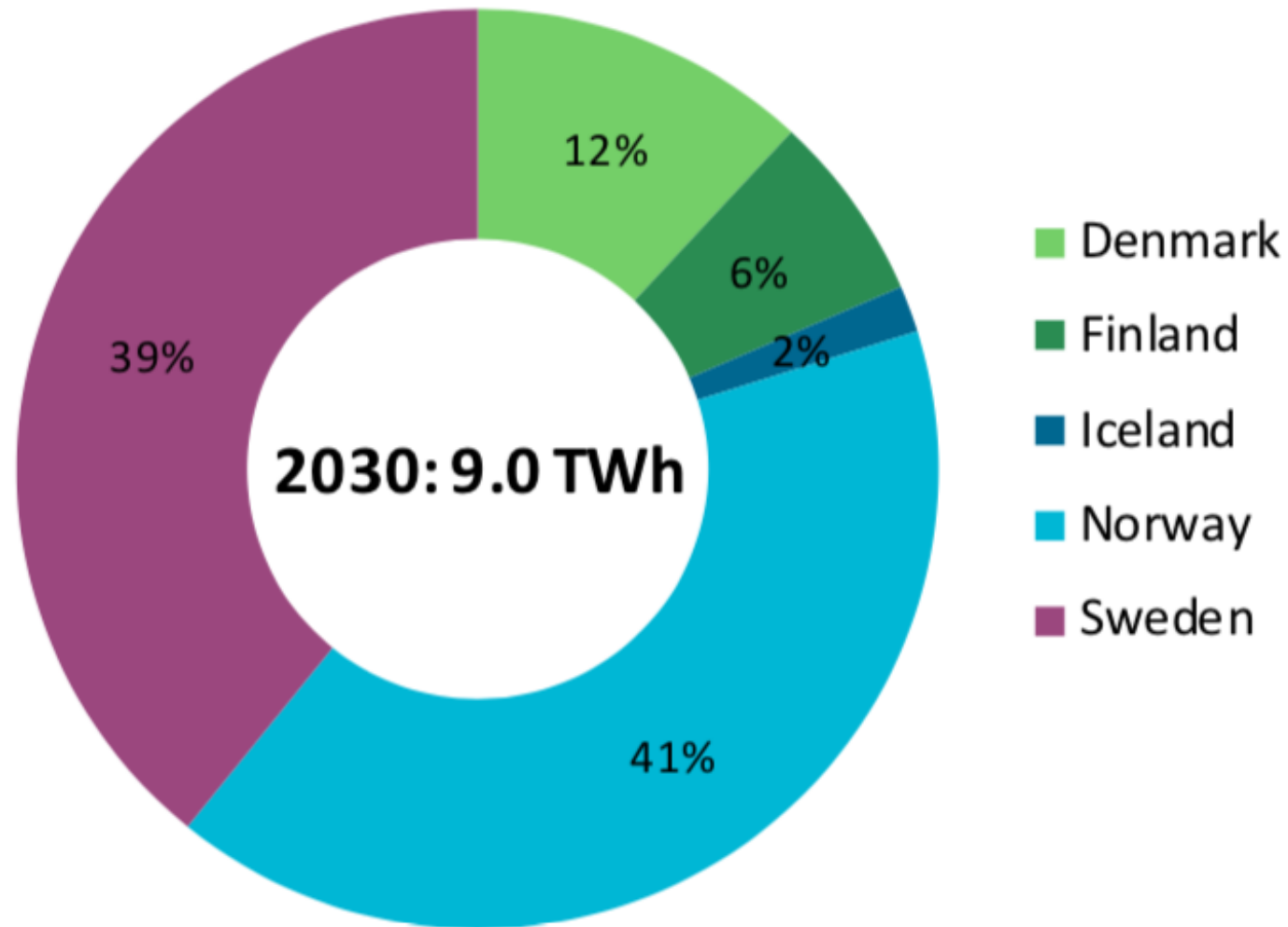


Will the grid collapse?



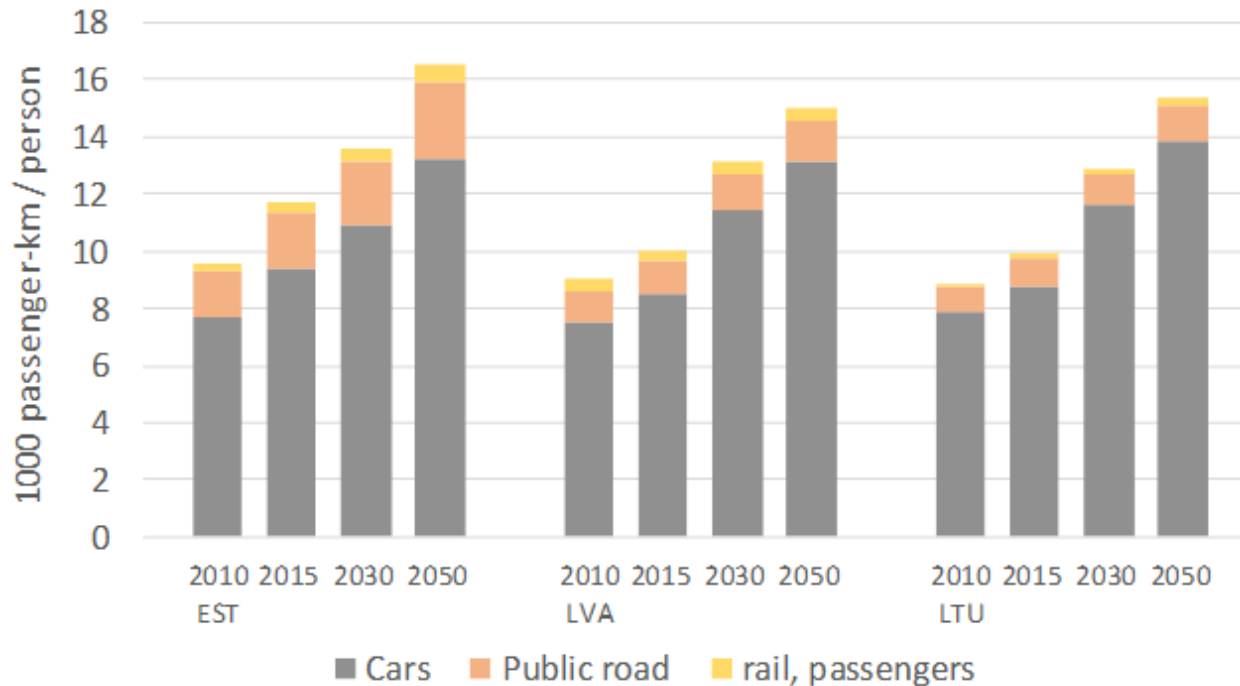
Source: Nordic EV Outlook 2018 /IEA

Will we have enough electricity?

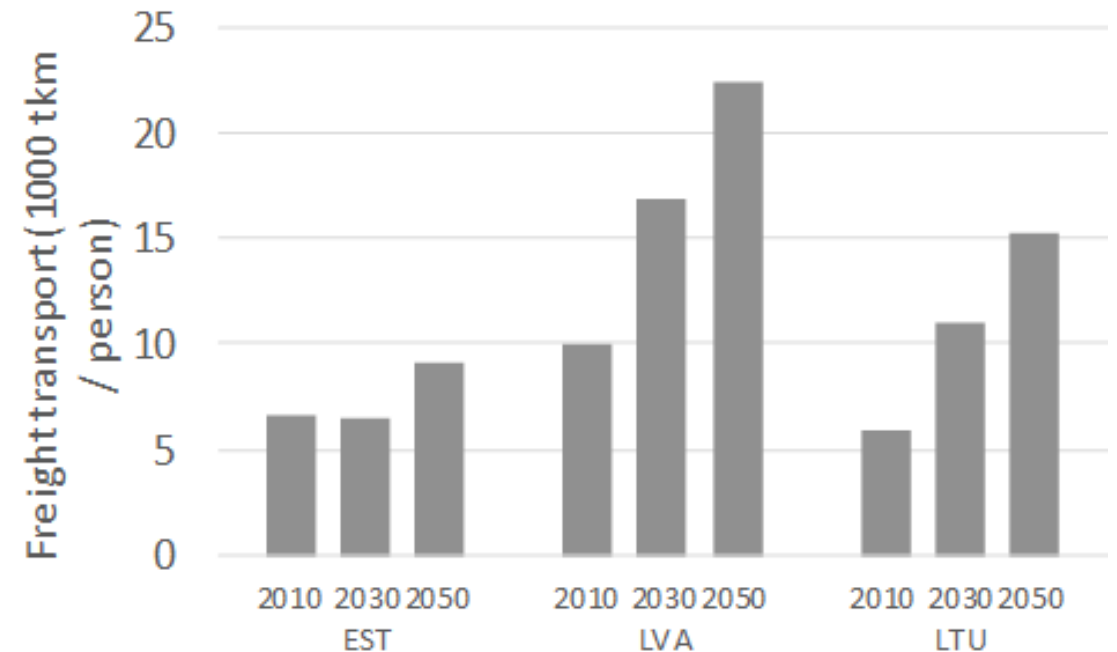


Transport in the Baltics – growing demand

**Passenger transport, up to +70%
(EU average +25%)**

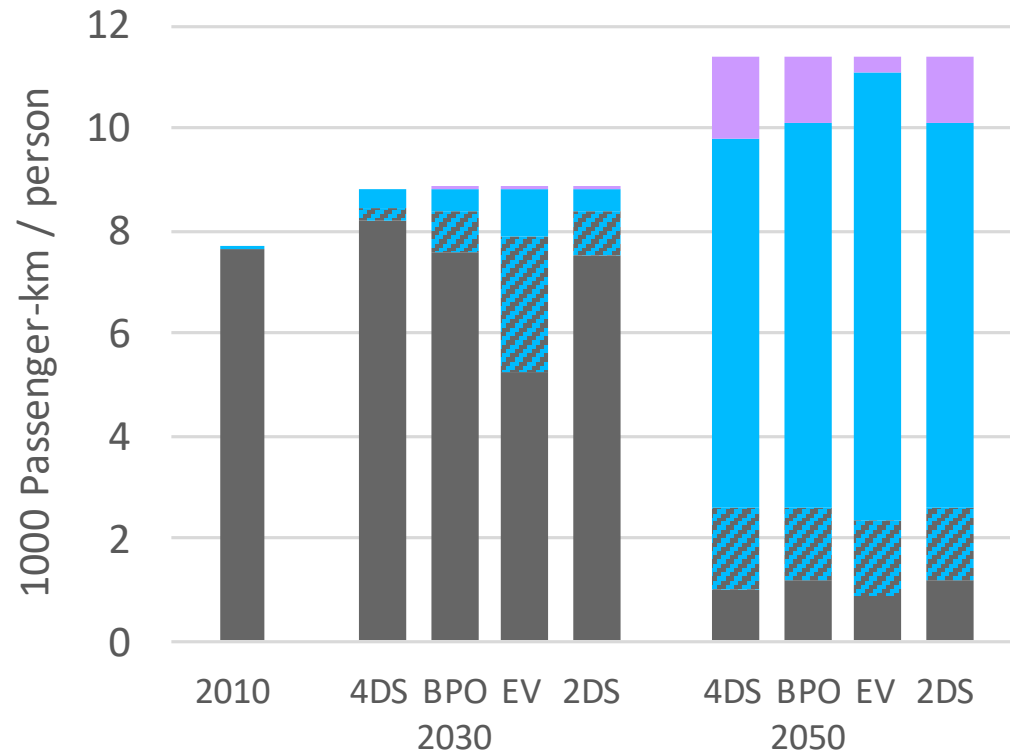


**Road freight, from +40% to
+150% (EU average +50%)**

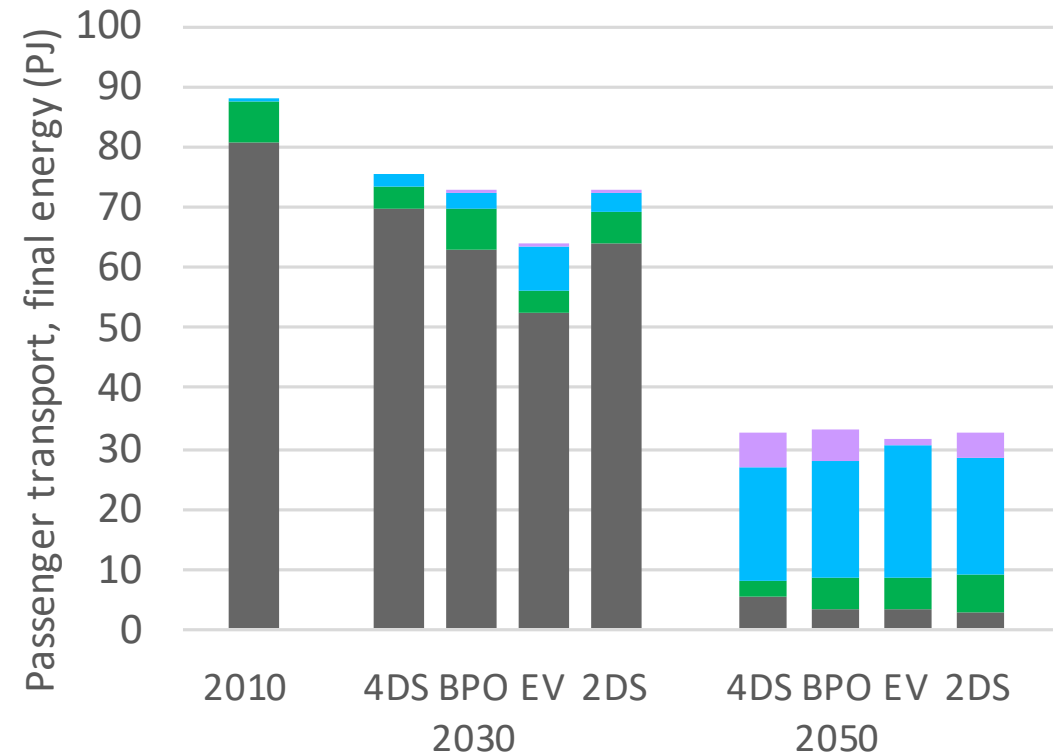


Transport – electrification

Passenger km per person by car type



Energy demand by car type



Waiting for an EV in Norway...

- Tesla Model 3: 3 10.000
- Audi Q7 E-tron 6.300
- Hyuundai Kona: 6.000
- Kia Niro Electro 5.900
- Mercedes EQC: 4000
- Jaguar I-Pace 3.000
- Nissan Leaf: 3.000
- Porsche Taycan: 2.300
- Citroen DS E-Tense: 1.350
- BMW iX3: 1.000



Electric buses in the Nordics





Going electric —
not only EVs...



NORDIC EV
Summit

PLANET ELECTRIC

Nordic EV Summit 2019

21st - 22nd March 2019, Clarion Hotel the Hub, Oslo

[REGISTER](#)