

Preparing the Battery Industry For Mass Exportation of Lithium-ion Batteries

Magnus Matre
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Battery Tech Expo



Objective

- Enhance your battery Logistics expertise
- Elevate the logistics priority in project planning

Agenda

- Logistic demand from the battery industry
- The complexity of battery logistics
- Future and present logistics challenges for the Nordic countries

109

countries,
connected
by our network

1,359

offices
worldwide,
so that we are
close
to our
customers

400,000

Customers
trust us to
manage their
logistics



Logistics demand from the battery industry

- **150** Gigafactories in 6 years
- 20 Gwh factory require **10 000** containerloads
- Inbound raw materials
- Export of cells to customers
- Reverse logistics



The complexity of battery logistics

Ask the captain: Lithium batteries are a safety concern!

- Dangerous goods classification
- Transportation and storage of batteries call for special handling
- Dangerous goods Regulations set the minimum standards
- Sea freight carriers set their own DG regulations
- **80-90%** of airlines define Lithium ion Batteries as Embargo



Present and future logistics challenges for the Nordic countries

- Long leadtimes to the nordic countries
- Infrastructure not build out for expected volumes
- Feeder vessels supplying the nordic countries have low capacity
- Sustainability in the logistics sector to suport a **green industry**



How do we overcome the challenges and at the same time maximize safety ?



Let's **get it**
done.

Magnus Oksholm Matre

Regional Business Manager – New
Mobility

0047 980 10 453

Magnus.matre@kuehne-nagel.com

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