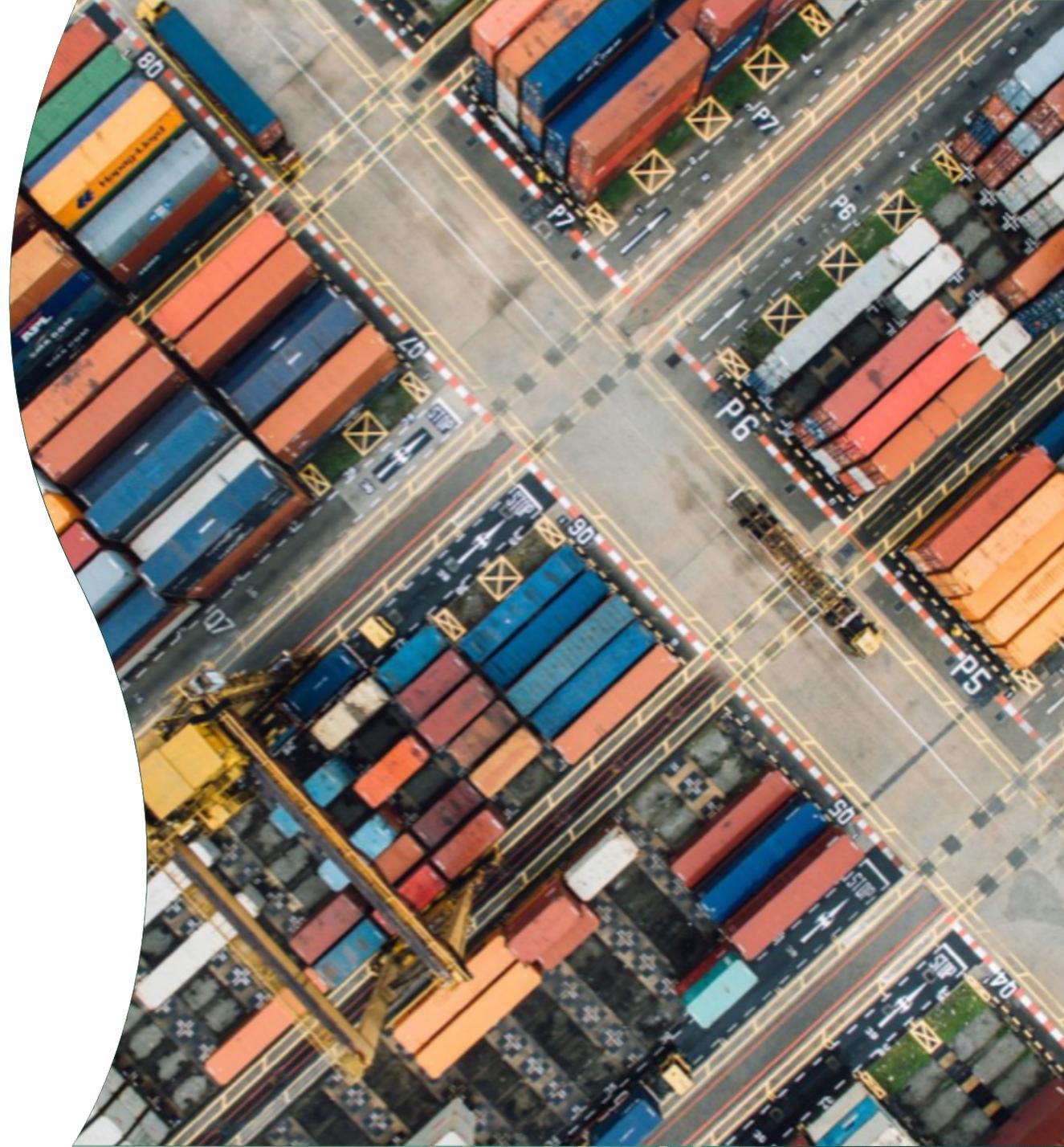


How companies and policies can help achieve Zero Emission Trucks

Join our journey to zero
emission logistics

January 2023



Smart Freight Centre

Who are we?

We guide the global logistics industry to track and reduce its GHG emissions to



We are an international non-profit organization focused on reducing greenhouse gas emission from freight transportation

We collaborate with our global partners to quantify impacts, identify solutions, and propagate logistics decarbonization strategies



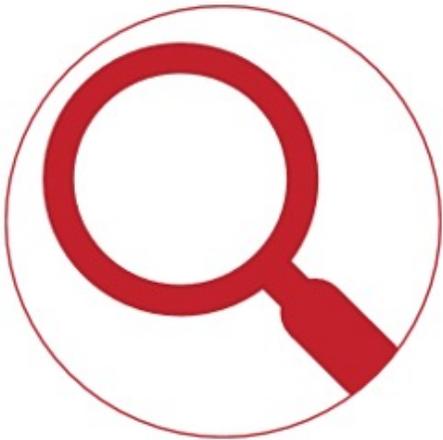
We work with global multinationals to decarbonize logistics

Multinationals hold the key to decarbonize logistics due to their purchasing power, but struggle to implement...



Four steps to decarbonize logistics

1 **Baseline**
emissions from
multimodal
supply chain



**Where are we
now?**

2 **Set targets**
for emission
reduction that are
science-based



**Where are we
going?**

3 **Reduce**
emissions by
implementing
solutions as buyer
or supplier



**How do we get
there?**

4 **Collaborate**
and advocate for
sector-wide action
and supportive
policy



**What do we
need?**

In road freight, we designed the Fleet Electrification coalition to purchase 100k+ medium and heavy duty vehicles

The power of demand aggregation



Aggregated demand allows OEM's to confidently scale up production volumes based on clear sales outlook and simplified vehicle specifications



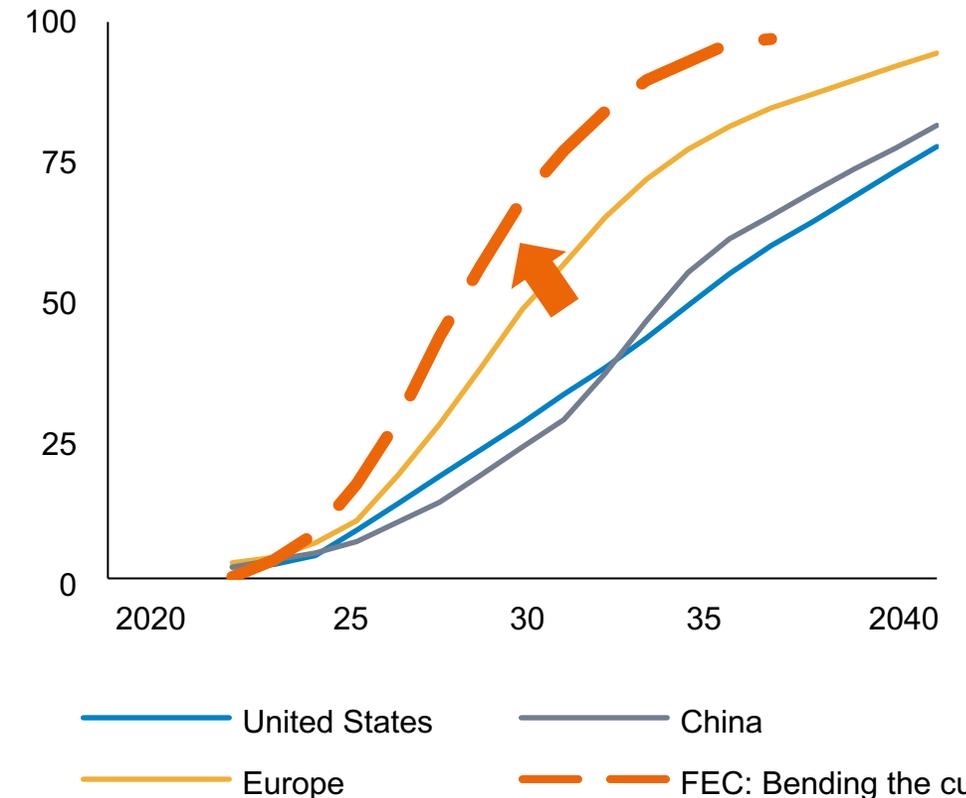
Aggregated demand allows charge point operators to better plan the required charging network design and required capacity



Aggregated demand opens the door to contract incentives and new financing solutions. This reduces entry barriers for 3rd party providers and SME's

India has shown this works for the bus sector!

Bending the curve for fleet electrification
Adoption projections for e-trucks



It is setting out to address the four key steps in the value chain over time

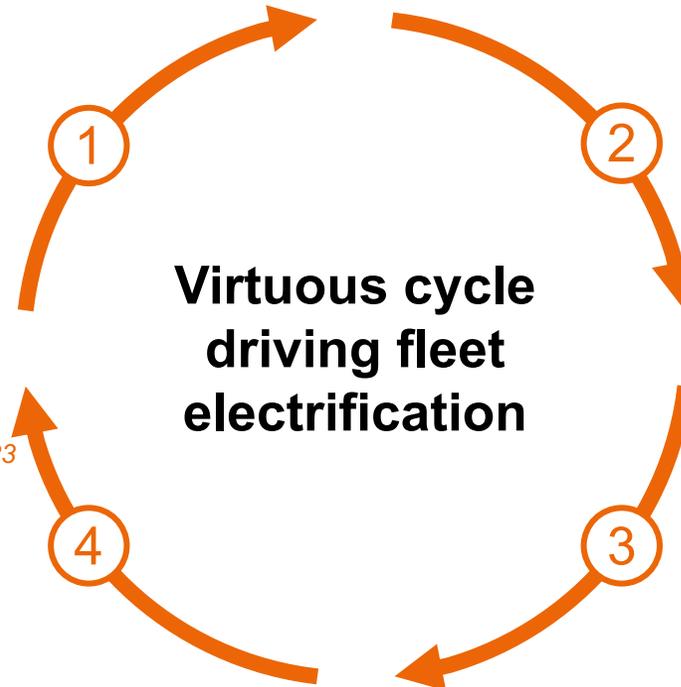
BEV demand aggregation and procurement strategy

Create clear demand signals for the market, jointly deploy ZE MHDVs and partner with OEMs to increase supply (led by leaders) and lower cost

Outside current planning document, to be tackled from October 2023

Battery lifecycle

Jointly ensure end-of-life components are reused and recycled in a sustainable way



Charging infrastructure optimization

Jointly enable and facilitate deployment of the right infrastructure to sustain and operate the increased supply of e-trucks

Solutions for 3rd party providers, including SMEs

Ensure access (availability, financing, etc.) to increased supply for all, and lower barrier to adoption by onboarding the main stakeholders (for ~80-90% of trucks in EU, and ~40-50% in the US)

Why now and what policies?

Logistics is largely a private sector operations, most private organizations are cost sensitive. I.e. if policies can create TCO parity, business will make the switch.

- Policies can support businesses, especially in decreasing TCO: make fleet electrification more appealing – e.g. by taking up residual risks
- Ensure the permits for charging infrastructure do not become a bottleneck: New business models emerge
- Ensure that OEMs deliver the required volumes: CO2 targets work!
 - Avoid loopholes to for instance efuels or dumping of the ICE vehicles
- Ensure that Fleets follow through on their commitments: Mandatory reporting of their performance (emission intensity)

Four steps to decarbonize logistics





Join our journey towards
efficient and zero emissions
global freight and logistics

Rik Arends

Director Sustainable Freight Buyers Alliance

