

**LEAP
TO
ZERO**



Leap to Zero 2025

Accelerating the transition to zero emission construction sites!

Peter van Schaik

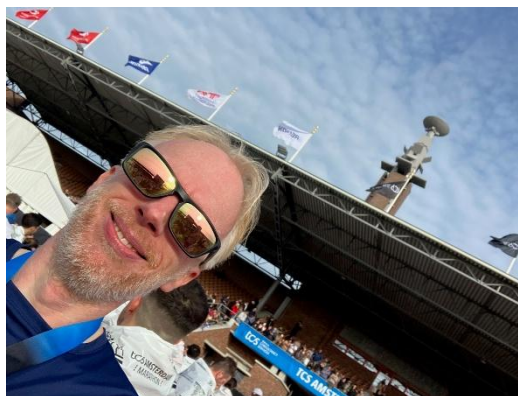




Peter van Schaik



- Program Manager for Clean and Zero-Emission Construction
 - Rijkswaterstaat / Ministry of Infrastructure and Watermanagement NL
- Dutch National Charging Infrastructure Agenda
 - Chairman working group for charging infrastructure at construction sites
- Stimulate the Leap to Zero network!





Short Quiz: zero emission or not?





How Leap to Zero started...

- The transition to zero emission construction is crucial for:
 - **Climate change** (Paris agreement)
 - **Nature & biodiversity** (including a nitrogen crisis in NL!)
 - Improving the **health** of our inhabitants and construction workers.
- **But we can't do this alone!**
- Leap to Zero started in 2022 as a collaboration between The Netherlands (Rijkswaterstaat) and Sweden (Trafikverket).
- 1st Leap to Zero conference in Feb. 2024, 2nd in Nov. 2024.
- Now, the 3rd conference is organized in collaboration with NVF!

“If you want to go fast,
go alone.
If you want to go far,
go together”

- African proverb -





The Leap to Zero Mission

- The core mission of Leap to Zero is to **connect**, **inspire**, and **accelerate** the transition towards clean & zero emission construction sites.
- The key objectives of Leap to Zero are:
 - Raise awareness
 - Stimulating international collaboration
 - Support market development
 - Sharing knowledge & experiences
 - Policy development





Key take-aways (November 2024)

- Transitions can go surprisingly **fast**!
- Don't be disappointed if the final goal is not reached immediately. We are doing this **step by step**!
- **Collaboration** across the value chain is crucial.
- **Demand** in projects is essential
- In many countries, national regulation is a goal for the long term. Short term focus should be on the zero emission ambitions of **local or regional authorities**.
- **Standardization** of zero emission equipment is essential to improve the operation of electric machinery.





Agreed upon actions 2024:

- **Enlarge the Leap To Zero-network** with relevant, ambitious new participants
- Creating an effective **organizational committee**
- Organize 1-2 **meetings** per year during the next 2-4 years, preferably at least one live meeting per year;
- Stimulate **exchange of information** by sharing available reports, presentations, best practices, etc.
- Promote the use of zero emission construction equipment in real life projects as a **showcase** of the European potential for zero emission construction equipment.



▲ Heijmans komt met een zelfrijdende asfaltwals. © Heijmans

**Over tien jaar is een derde van de
wegwerkers met pensioen: 'Dit is
een mogelijke oplossing'**

News By Press Information

05/06/2025

Volvo CE reaches 100,000 hours of electric operation in Norway

**De krol van Swietelsky klaar voor inzet:
innovatie op het spoor**

Wijk 11, Pijp

ion More ▾

Electric RVs | Five-Minute Charging | World's First Battery Commercial Vehicles Fleet

on Equipment evolution

ders are still rare on most worksites
a new generation of cleaner machines.



n Norway: ASKO epot supports charging for trucks

ecentralised charging system with a total capacity of

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TO
ZERO**

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REPORT
Electric Construction Equipment Market
114 pages 20

Description

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Samples

Companies Mentioned

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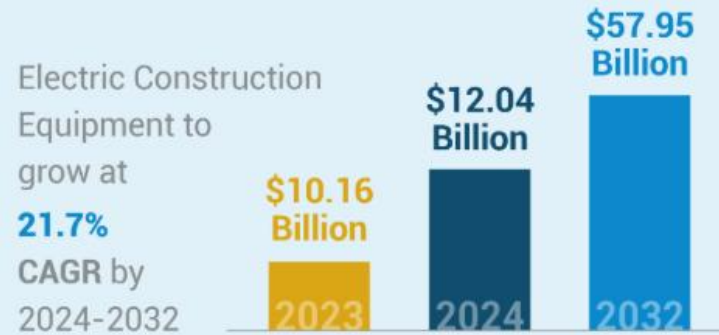
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TRENDS

Advancements in Battery Technology



DRIVERS

Environmental Regulations and Sustainability Goals



North America | South America
Europe | Middle East & Africa

INDUSTRY DEVELOPMENT

Volvo Construction Equipment announced plans for the launch of the largest electric excavator in Japan.



BY BATTERY TYPE

Lithium Ion | Lead Acid | Others

BY APPLICATION

Construction | Mining
Material Handling | Others



BY TYPE

Cranes: 17.9%
Excavators | Loaders | Dozers | Others

CHINA, BY TYPE

Cranes: 18.4%
Excavators | Loaders | Dozers | Others





So, where do we stand?

- Construction equipment
 - Zero emission machines are getting bigger and bigger!
 - Longer range through large batteries and more efficiency
 - More OEM's stepping up, a wider range to choose from
- Charging infrastructure is improving!
 - Megawatt charging
 - Mobile battery systems and hydrogen
 - 'Charging at the neighbours'
 - Charging infrastructure as a solution for net balancing
- Market forecast for zero emission construction: growth!!
- Users: happy! → <https://youtu.be/ka5U5-rzG8Y?si=7KntozfsQNU7LLCn>

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TO

ZERO



Let's accelerate the
transition to zero emission
construction sites!

