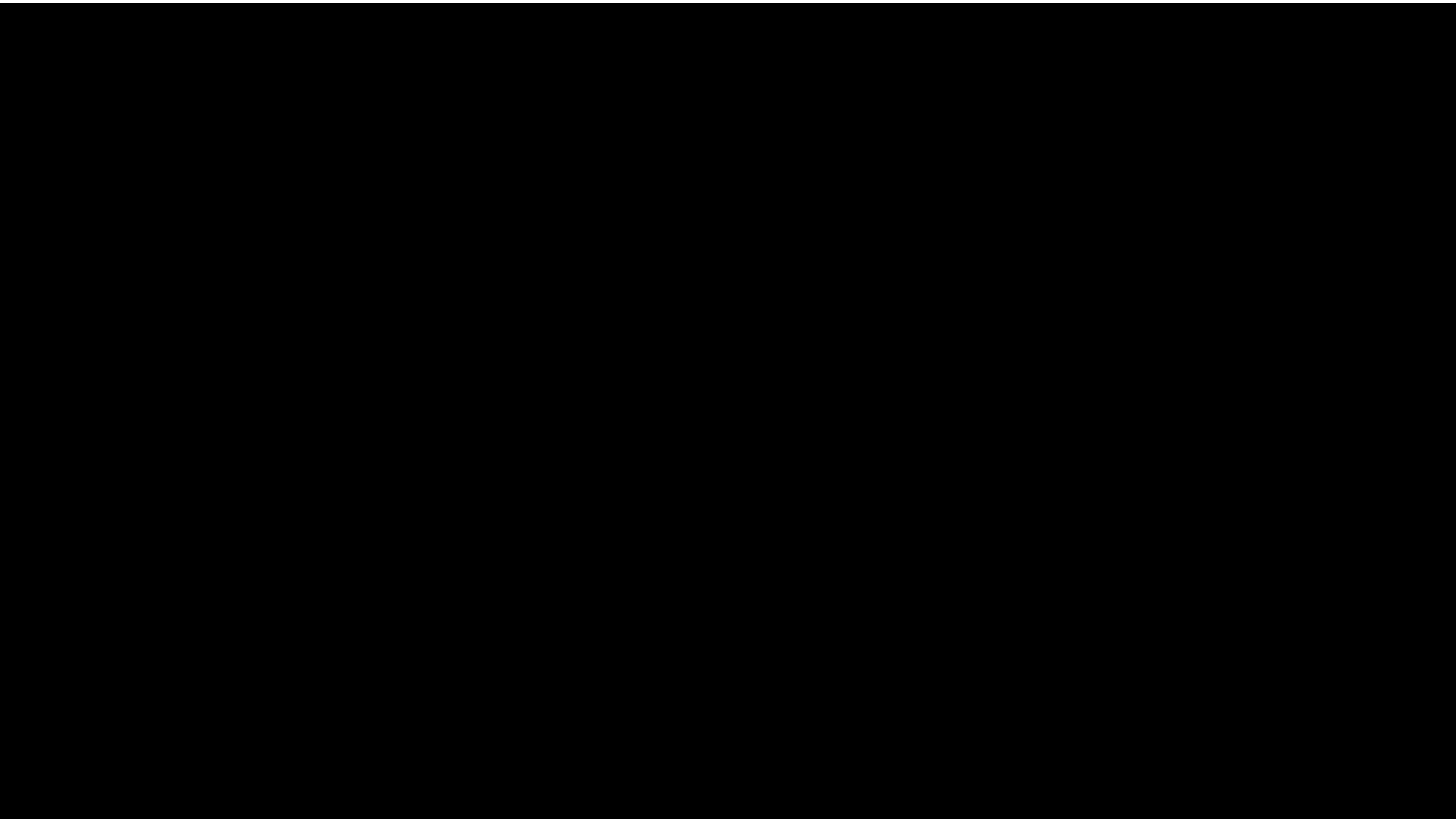


Welcome to
Battery Day 2026







➤ **Ben van der Burg**

Moderator

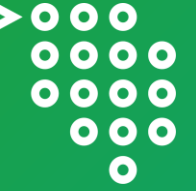
Former speed skater Ben van der Burg combines decades of digital expertise with a passion for technology, bringing energy, humor, and valuable insights to media and business events.



➤ **Martijn van Gruijthuijsen**

Deputy at Province of Noord-Brabant

Martijn van Gruijthuijsen has grown from a career in public administration into a driving force behind Brabant's economic development, international collaboration, innovation, and future-proof economy.



Introduction Dutch Battery Ecosystem



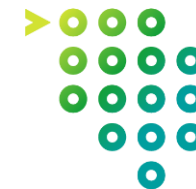


➤ **Mustafa Amhaouch**

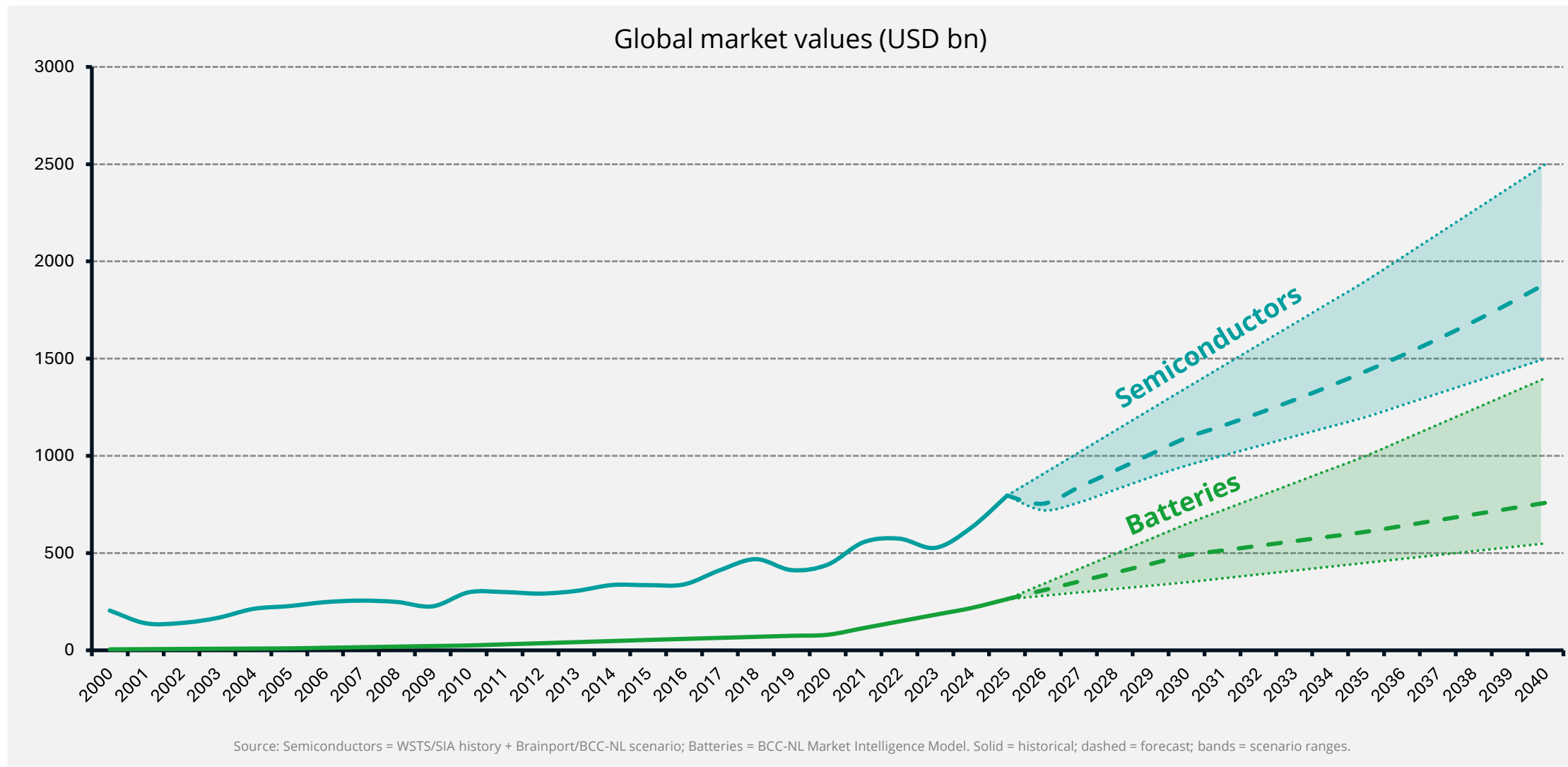
Director of BCC-NL

Mustafa combines extensive experience at ASML and in Dutch parliament with his role as Director of BCC-NL, driving battery innovation and industrialization in the public private playing area.

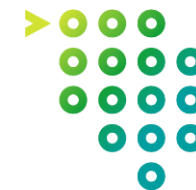
➤ Strategic technologies scale in waves



Semiconductors scaled first. Batteries enter the next global scale-up phase



➤ Battery market growth: from early-stage to industrial maturity



As the battery market scales, the opportunity shifts from isolated applications to a diversified industrial ecosystem.



The Netherlands has a unique position to capture high-value slices of this growth, in line with the National Action Agenda, through:



High-tech equipment
for battery production



Next-generation
materials and components



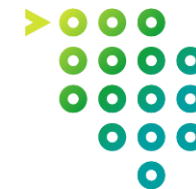
System integration
for heavy-duty and
stationary applications



Circularity and recycling
across the full value chain

Dutch technology, expertise and collaboration for a sustainable battery value chain in Europe.

National Action Agenda ➤



Mustafa Amhaouch

Director of BCC-NL

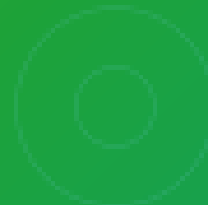
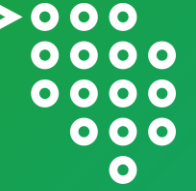
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Stefan Wolf

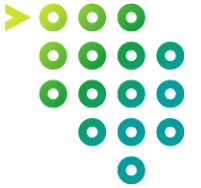
Managing Director at KLiB e.V. – Der Batterieverbund

Stefan, Managing Director of the network organization for the German battery sector (KLiB). Stefan is an expert in innovation and industrial policy with over eight years of experience advising companies and government.



G2G Techbridge





Michiel Janson

*MT member of Top Sectors and Industrial Policy at
Ministry of Economic Affairs*

Michiel Janson is an experienced industry policy leader at the Dutch Ministry of Economic Affairs, focused on strengthening strategic industries, vital value chains, economic security, and collaboration between business, research, and government.



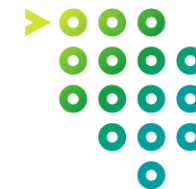
Wenke Apt

*Research Officer at Federal Ministry of Research,
Technology and Space*

Wenke Apt is a policy and research expert at BMFTR, combining expertise in innovation, demographics, and societal transformation to translate complex trends into actionable public policy.

Call for proposals

Joint R&D projects



Co-development of Next-Generation Sustainable Battery Technologies and Battery Manufacturing

With funding from the:



Federal Ministry
of Research, Technology
and Space



Ministerie van Economische Zaken
en Klimaat



Government of
the Netherlands

This project is supported by the

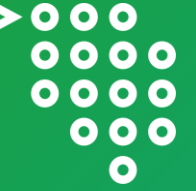
National Growth Fund

Open: October 2026 | **Close:** 19 January 2027 | **Start:** From 1 June 2027 onwards

More info: www.rvo.nl/techbridge



Ladies and gentlemen,
it's a great pleasure to address you.



Keynote 1: Battery Industry





➤ **Andreas Löhrke**

CTO at CustomCells

Andreas Löhrke is CTO of CustomCells, headquartered in Germany. Before joining CustomCells, he spent 17 years at BMW in a series of senior management roles, including General Manager R&D for 46mm cylindrical cells and Head of High Performance Powertrain Components.



From Risk to Resilience

Defence as the Catalyst for Europe's Battery Industry

Lessons learned from developing and producing high-performance cells

Andreas Löhrke | CTO, CustomCells | Battery Day 2026, the Netherlands

CustomCells at a glance

A decade of cell engineering | built to perform



Since 2012

Fraunhofer spin-off

60 MWh

Electrode production in
Germany + Assembly

German HQ

and German family-office
ownership

Certified

ISO 9001 and German VG
Norm

>100 staff

delivering IP and quality



Resilient

NDAA aligned supply chain

High-performance cells for demanding applications – backed by experience and a resilient supply chain.

When the supply stops



2023

Graphite

Export licence for natural flake and high-grade synthetic graphite

2024

Cells for Skydio

US drone maker sanctioned. Battery supply cut overnight.

2025

Cathode know-how

LFP/LMFP cathode and lithium refining technology licences

2025

Cells & lines

Cells ≥ 300 Wh/kg, anodes, NCM precursors, selected production lines.
(Paused to Nov 2026)

The risk

| Time

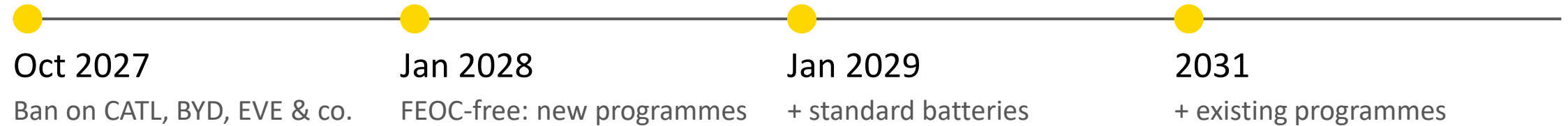
New cell capacity takes years to ramp up

| Range

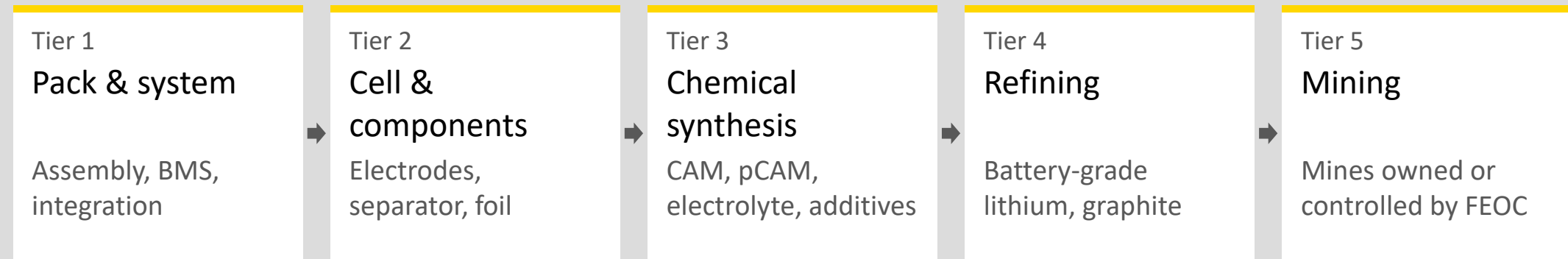
Without local high-performance cells, systems fly shorter – a tactical disadvantage

Battery supply is no longer a market question. It is a security question,

The US has already drawn the line



Where FEOC-free applies – on every tier, from pack to mine (FEOC = Foreign Entities of Concern)



Same rule on every tier: who owns and controls the step – not where it is. Safe harbour: >95 % non-FEOC cost.

From 2028, US defence buys only FEOC-free cells – from pack to mine.

Lessons learned as a MWh player



01

Technology is ready

R&D is well funded. Cells and know-how exist in Europe.

02

GWh is binary

Price competitiveness means 0 to 20 GWh in one step.

03

Awareness varies

Awareness of cell supply risk varies between customers.

04

Collaboration is key

Build and use your network.
Especially for trouble shooting.

05

Focus

Set clear boundaries for tech
and markets.

06

One anchor is a risk

A single high-risk customer can
put the whole company at risk.

Technology is not the bottleneck. Scale and reliable demand are.

Technology options for tactical advantages



Platform	High Energy	Ultra High Power	High Cycle & Power
Energy	> 375 Wh/kg > 920 Wh/L	> 130 Wh/kg > 400 Wh/L	> 130 Wh/kg > 390 Wh/L
Power	Peak 11C · 3C cont.	Peak 157C · 40C cont.	Peak 40C · 15C cont.
Cycle life	> 600	400	>> 20,000
Temperature	-40 to +60 °C	up to +80 °C	-40 to +60 °C
Segments	Long-range UxV, ISR	Weapons & effectors	Arctic, on-board power
Availability	Available	On demand	Q1 2027

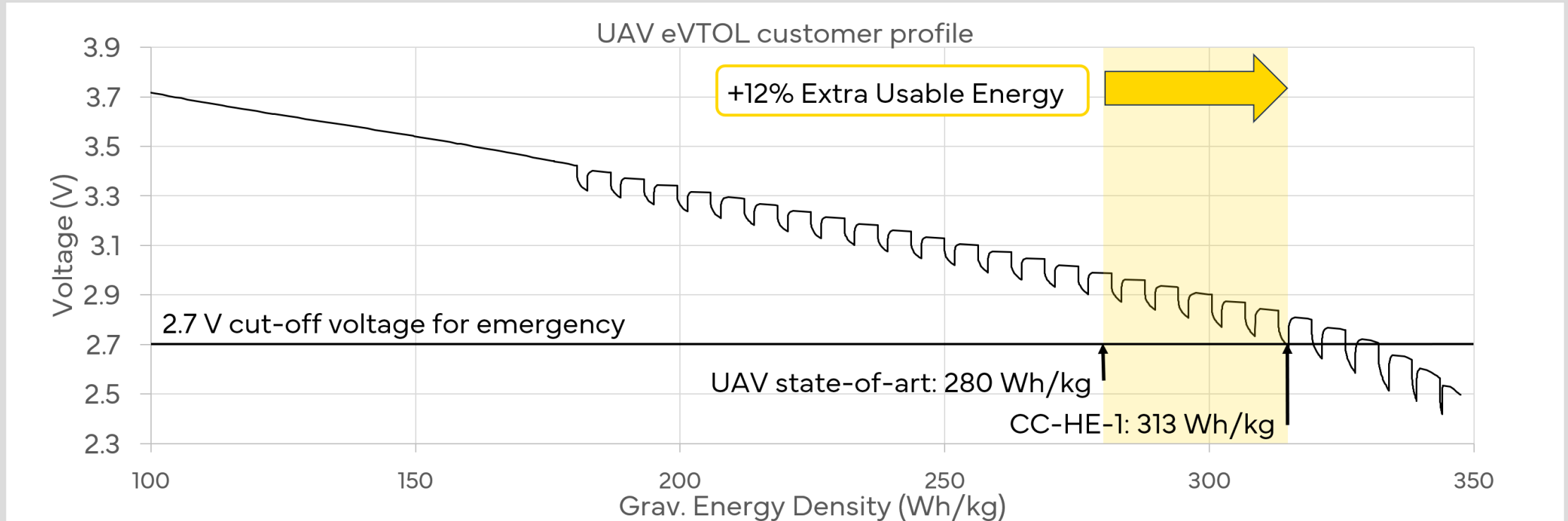
Trade-off between energy and cycle life; derating possible, temperature dependent.

Three platforms – for range, for power, for persistence.

Usable energy is a tactical advantage



More usable energy | more range, endurance and payload



12 % more usable energy under real load than the benchmark. 87% usable energy vs. nominal energy value.

Defence as the spearhead for resilience



R&D is funded.

Industry is ready.

Investors are ready.

01

Defence commits

Long-term demand signal

02

Capability and skills
stay & grow

MWh cell makers keep
investing – know-how
stays in Europe

03

Value chain follows

Materials, components,
equipment – across NL
and DE

04

Resilience

Sovereign cell supply for
defence and critical
applications

Windfall: a running base for future GWh scale-up – instead of starting from zero.

Commit to demand – keep MWh capability in Europe, and resilience follows.

Meet me at the show – or get in touch

Let's build Europe's battery resilience – together.



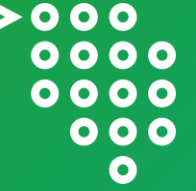
| Andreas Löhrke
| CTO
| andreas.loehrke@customcells.de

LinkedIn



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25524 Itzehoe
Germany

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contact@customcells.com
www.customcells.de



Keynote 2: Defense Strategy | Forwards, together!

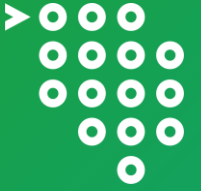




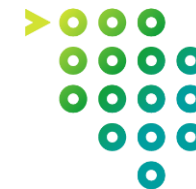
➤ **Maarten Smidts**

Director Industry and Innovation at Ministry of Defense

Maarten Smidts is a Dutch public sector leader and Director for Industry & Innovation at the Ministry of Defense, specializing in economic policy, innovation, defense capabilities, and technological autonomy.



Dialogue: TNO, Fraunhofer FFB



Tjark Tjin-A-Tsoi

CEO and chairman of the board of TNO

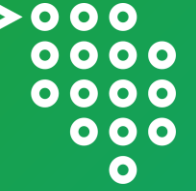
Tjark Tjin-A-Tsoi, CEO and chairman of the board of TNO, the Dutch independent research and technology organization that turns scientific knowledge into practical innovations for industry and society. Tjark is an experienced Board Member.



Prof. Dr. Simon Lux

*Institute Director at Fraunhofer Research Institution
for Battery Cell Production FFB*

Simon Lux is professor of Applied Electrochemical Energy Storage Technology and director of FFB Munster. He has many experience on battery technology and manufacturing from Germany and the United States.



Scale-up pitches NL Companies



➤ Scale-up pitches NL companies



Christian Rood
CEO of LeydenJar



Kevin Brundish
CEO of LionVolt



Aytac Yilmaz
CEO of Ore Energy



Fedor van der Post
CEO of Liminal by WMC



Bernd Rietberg
CEO of Tulip Tech

Bonding more energy to bring you to new places

Who we are



- 63 LeydenJarrees from 25+ nationalities
- Leiden & Eindhoven based
- FR.ON.TI.ER culture
- Entering the market!

Our technology



- Silyte, pure silicon anode rolls
- GEN3 industrial platform
- ML assisted electrolyte platform
- Cell making capability

Scaling up



- US mag7 client base
- Asian cell partners
- Scaling by GEN3, first in Eindhoven
- From wearables and defense drones to adjacent markets

Our ambition



- Enable a new generation of smart devices
- Become a European deep tech champion
- Facilitate e-flight
- Contribute to European sovereignty

LionVolt | More energy. More power. Made in Europe.



Who we are



- European developer and manufacturer of next-generation battery cells
- Founded in 2020, 50+ people, R&D lineage from Holst Centre since 2014
- 48+ patents filed, IP controlled in-house

Our technology



- Lithium-metal cells on a proprietary 3D anode architecture
- **420 Wh/kg and increasing as the platform evolves**, 50 to 100% more energy than conventional Li-ion
- Fast charging and high power delivery
- Chemistry-agnostic platform, ready for sodium-ion and solid-state next

Scaling up



- Moving from pilot production to commercial supply
- Finished cells for OEMs today, anode rolls for cell makers as we grow
- Drones and UAV first, then robotics, eVTOL and EV
- Manufacturing partnership announced
- Initial design in place for European based **0.5gwh/annum factory**

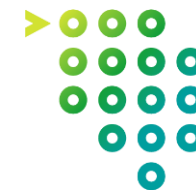
Our ambition



- The cell supplier of choice for every new market that runs on high energy cells.
- Break the battery's energy ceiling
- Qualify the platform once, ride every chemistry upgrade after
- The cell itself made in Europe, with fully secure supply
- **More energy. More power. Made in Europe.**

➤ Ore Energy

We're building energy storage at one-tenth the cost of today's batteries so civilization can run entirely on baseload renewables.

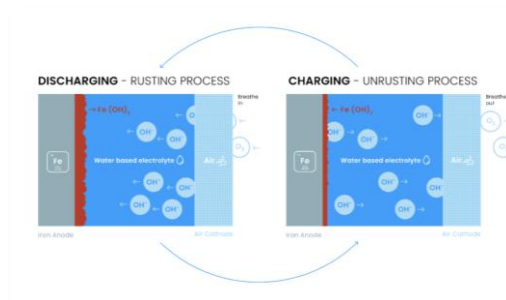


Who we are



- TU Delft spin-out, founded 2023
- Based in Amsterdam and Delft
- ~60M USD raised to date
- Backed by Plural, HV Capital, Positron

Our technology



- Iron-air battery: iron rusts and un-rusts, reversibly
- Based on Iron, water and air – no lithium, no cobalt
- The cheapest batter chemistry ~ 10 times cheaper than Li-ion
- 100 hours of storage

Scaling up



- First hundreds of MWh to be delivered from 2028
- First factory, GWh-scale by 2027

Our ambition



- **European Energy sovereignty:** Turn renewables into baseload energy to replace gas for baseload
- **Cheap and clean power** for grids for industrial revolution 2.0 and data centres, 24/7

Next generation li-ion battery recycling in the Netherlands

Who we are



- Dutch venture recycling lithium-ion batteries at commercial scale
- Consortium CRM-Lion: Circular Batteries & Material Independence
- Part of WMC Group: partnering with a global CRM commodity merchant

Our technology



- Mechanical pre-treatment to black mass
- Metal extraction and separation without strong acids or base
- Multiple chemistries: NMC, NCMA, LCO, LFP
- IP-protected

Building for Scalability



- Modular design: 7,500 t/a in feedstock under 2,000 m²
- End of waste status for recovered materials
- Opening H2 2027
- RVO subsidy awarded

Our ambition



- Meet & beat the 2031 EU recovery targets
- Improve strategic autonomy
- Demonstrate economical recycling outside China is feasible
- Develop a pan-European platform



Tulip Tech

Build better batteries to improve the resilience of the free world

Bernd Rietberg · CEO and Founder

600+ Wh/kg

HIGHEST BATTERY PACK
ENERGY DENSITY IN THE WORLD



/ WHO WE ARE

- Dutch builder of high-density battery packs for drones
- We engineer, test and assemble ourselves
- Intimate development partner to drone OEMs



/ OUR TECHNOLOGY

- 300 – 600+ Wh/kg cells in mission-specific packs
- 30–120% more range on existing platforms
- Customized pack and Battery Cell development



/ SCALING UP

- 1M packs this year, 2M next year
- Revenue multi-hundred, half billion € next year
- Expanding teams in the US and Ukraine
- Aimed Unicorn 2027



/ AMBITION

- 2M packs a year for mission-critical systems
- UAVs, UxVs and critical infrastructure
- Exclusive supply chain, free of geopolitical risk

'Tulip Tech is one of the reasons the Netherlands is leading in the drone industry.'

Nederlandse Minister van Defensie, Yesilgoz

'We know you very well. You are doing good work. Keep scaling.'

(At the time) Ukrainian Minister of Defence, Mykhailo Federov

What we are looking for: Partners to build a sovereign Battery Cell Factory.

➤ Scale-up pitches NL companies



Christian Rood
CEO of LeydenJar



Kevin Brundish
CEO of LionVolt



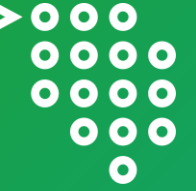
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Launching National Battery Action Agenda





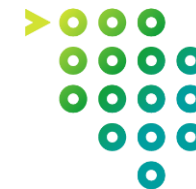
➤ **Kees van der Burg**

Director-General for Mobility at Ministry of Infrastructure and Water Management

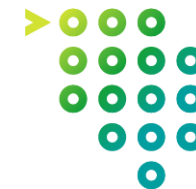
Kees van der Burg, Director-General for Mobility at the Dutch Ministry of Infrastructure and Water Management, focuses on sustainable mobility, digital innovation, and international collaboration to shape smarter, future-ready transport systems.

➤ National Action Agenda for Battery Systems 2026

*Bouwen op kracht,
focus op versnelling*



➤ National Battery Action Agenda



Download!



감사합니다



Merci

Danke

Köszönöm

Gracias

谢谢

Teşekkürler

Dankjewel

شكراً

**Thank
you**