



A CONSTANTLY EVOLVING E-MOBILITY SOLUTION

NEW ENERGY FOR SUSTAINABLE TRANSPORT



SCANIA

THE COMPLETE E-MOBILITY SOLUTION

A holistic e-mobility solution that is tailored to your specific needs delivers much more than just new vehicle types. It creates opportunity and momentum to not only address transport sustainability, but can also be the key for new business opportunities, new collaborations and partnerships – and new ways to change the transport industry for the better.

As you know, e-mobility is about a lot more than capable vehicles. It's as important to ensure they can be charged and ready to perform their transport duties, to utilise smart digital services to optimise their operation both in productivity and energy efficiency, to keep them well maintained and on the road, as well as finding the right way to finance not only the vehicles – but all of it.

Analysing your data

The foundation for the right solution, is always knowledge. Knowledge about what the technology is capable of, but

also about what you need out of it – and where and when that can be made possible. That's why we always build our solutions on data – your data, from your vehicles – allowing us to tailor a solution not only according to your wants and wishes, but adapted to and optimised for your real-world operation.

A solution you can trust

When it comes to the robustness and reliability of our vehicles, they're both well-established norm. Scania quality standards means something. And this is a mentality we apply not only in terms of vehicles, but every part of the solution.

SBTi

Scania was the first manufacturer of heavy commercial vehicles that committed to the Science Based Targets initiative (SBTi) – a joint initiative between global corporate actors to ensure progress towards the Paris agreement goals of limiting global warming to 2°C above pre-industrial levels. In fact, we're pushing even further towards a goal of 1.5°C.



SCIENCE
BASED
TARGETS



THE COMPONENTS OF THE SOLUTION

Although the exact nature of each solution is dictated by the specific needs, we like to say that our truck e-mobility solutions are most commonly built on four major components.

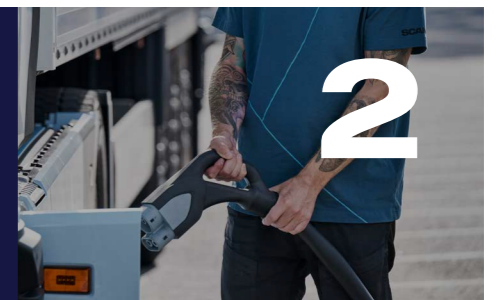
TRUCKS

The vehicles themselves, available with a selection of e-machines, in multiple chassis and wheel configurations with a variety of cab options.



CHARGING

Analysis of charging needs and prerequisites resulting in a suggested charging solution – including infrastructure planning, building and implementation, charging hardware and software, and their long-term maintenance and support.



DIGITAL SERVICES AND REPAIR AND MAINTENANCE

A tailored services package as well as a Repair and Maintenance contract that minimises your costs and maximises your productivity.



FINANCING & INSURANCE

Financing coverage of not only vehicles and auxiliary equipment, but the complete solution – including charging infrastructure, your services package as well as Repair and Maintenance.



FAST CONTINUOUS EVOLUTION

OUR ELECTRIC TRUCKS

With a mentality of continuous improvement of our products and services – we seldom think in product generations. And thanks to our modular system, this means we can continuously expand our truck offering – approaching new applications and transport needs.

This process has now brought us to the point where we no longer need to differentiate between urban or regional operations on a platform level – and moving forward we can offer one consolidated electric truck platform which can then be specified to whichever needs you have.

This means we now offer more chassis variations and wheel configurations, more cab options, as well as multiple e-machine choices – optimised for weight and energy efficiency or for torque and power.

A new driving experience

With an electric machine, the driving experience will be different in all the right ways. A more nuanced drive with faster and more direct response, better

acceleration and at the same time a smoother feel. All with zero emissions and lower sound levels, and with a choice of both purely electric and electromechanical PTO.

High-capacity fast-charging green battery packs

Reach farther than ever before with the world's greenest battery pack for heavy commercial vehicles – providing a large installed battery capacity (416 or 624 kWh) and powerful charging capability at 375 kW. These state-of-the-art in-house assembled battery packs also allow you to fast-charge from empty to almost full, with very minor impact on battery life.





Technical specifications

Wheel configuration	A/B 4x2, A/B 6x2, B 6x2*4, A/B 6x4
Axle distance	3250 – 6350 mm
Cab options	L, P, G, R, S
Electric propulsion	EM C1-2 – Two-speed, continuous 210/240 kW (280/320 hp). EM C1-4 – Four-speed, continuous 270/300/330/360/400 kW (360/410/440/490/540 hp). EM C3-6 – Six-speed, continuous 400/450 kW (540/610 hp).
PTO	Electrical, electromechanical and mechanical interfaces
Battery capacity	416 kWh installed or 624 kWh installed with 75/83% SoC-window – Up to 520 km range at 29 t GTW, 440 km range at 40 t GTW, and 320 km range at 64 t GTW.
Charging	CCS2 375 kW / 500 A DC, Fully charged in less than 85 min at 375 kW
GTW	Max 64 t

EM C1-2 for lower power demands

Two-speed e-machine, with 210 kW (280 hp) and 240 kW (320 hp) power options.

EM C1-4 for optimised energy efficiency

Four-speed e-machine with five performance options – 270 kW (360 hp), 300 kW (410 hp), 330 kW (440 hp), 360 kW (490 hp) and 400 kW (540 hp) of continuous power.

EM C3-6 for optimised performance

Six-speed e-machine, with a continuous power output of 400/450 kW (540/610 hp).

6x4 Chassis

Additional chassis option for applications with high traction requirements.

Reinforced frame

A frame optimised for electric vehicles, reinforced for safe and secure battery mounting.

Smart Dash

Our in-cab ecosystem works together with My Scania and Scania Driver app to provide a seamless flow of smart insights. The new Scania Navigation app analyses traffic information to keep the driver and fleet manager informed in real time for improved navigation, and the connected map supports Cruise Control with Active Prediction and Speed Sign Information. The integration of our Advanced Driver

Assistance Systems also enhances vehicle safety, protecting pedestrians, cyclists and others on the road. And in terms of connectivity, with Over the Air software updates your vehicle's software stays up to date and allows you to activate new services without visiting a workshop – while the Smart Dash also enables Wi-Fi and Bluetooth servicing capabilities for easier and faster diagnostics at our workshops.



Wheel configurations

A/B 4x2 Chassis height: low/normal	
A 6x2 Chassis height: normal	
B 6x2 Chassis height: low/normal	
B 6x2*4 Chassis height: low/normal	
A/B 6x4 Chassis height: normal	

Cab options

Cabs	Normal
L	
P	
G	
R	
S	

OUR CHARGING OFFER

NEW ENERGY EVERY DAY

Charging is a key part of a complete e-mobility solution, and it's about a lot more than plugging and waiting. Since we understand both your operational needs and your business perspective – when partnering up with us we will always help you get the best charging solution from both a technical, financial and scalability perspective.

This means that from day one, we see it as our mission to ensure you get the charging solution needed both now, and in the future. With a suite of in-house developed analytics tools we can run simulations to help understand your needs, establish or further elaborate on your electrification plans, and put them into action. With solutions covering depot charging, destination-charging, en-route charging, and even charging at Scania Service centers – we will help you finance, plan and build, as well as provide you with long-term support and maintenance. It's all part of the Scania charging offer.

Analysis at the core

With more than 130 years of transport industry experience, we know that no two businesses are exactly alike, and that every aspect of the right solution for your operation needs to be anchored in thorough knowledge about your needs and prerequisites. Our analysis leverages the data from not only your vehicles – but literally hundreds of thousands of connected vehicles worldwide – to ensure we fully understand each individual transport situation.

How we create your charging solution

We always work from a customer first perspective. The six steps below explain how we approach creating a tailored charging solution with your operation in the spotlight, addressing every need and prerequisite of the operation, such as: Energy needs and power availability, suitable hardware and software, best lay-out placements as well as preparations for future scale-up.

STEP 1 Operational analysis

By analysing operational factors regarding vehicles, routes, shifts and payloads – we identify which operations/flows can be electrified and what their energy needs will be, as well as define your electrification roll-out to realistically meet the goals of your business.

STEP 2 Site energy analysis

How and when do you charge? The energy analysis looks at the options and feasibility of different charging strategies. Solutions built on thorough analysis has shown to substantially lower the infrastructure investment costs.

STEP 3 Charging hardware

The right solution for any specific operation depends on the right combination of charger types and charging hardware. All of the hardware in our broad portfolio is thoroughly tested to make sure that they can handle heavy duty vehicle charging and rough operations.

STEP 4 Charging software

Smart charging using a Charging Management System (CMS) is a key component to getting the most out of your charging hardware and power grid – without paying for overcapacity. With features such as monitoring, managing/restricting chargers, intelligent scheduling, vehicle pre-conditioning – and even allowing you to sell unused energy capacity to other fleets.

STEP 5 Installation and commissioning

The physical deployment of chargers should be a smooth and easy process – which is why we coordinate the process for you. We bring the process all the way from breaking ground to when the chargers are fully operational, including certifications and training of local staff.

STEP 6 Support, Repair and Maintenance

And as a final step, we set up an appropriate support and Repair and Maintenance contract for your operation – with multiple levels of support and availability, both remote and on-site. Fully tailored to your needs, optimised for quickly and seamlessly resolving any issues and to minimise any disruptions, and ensuring your electrification journey continues smoothly towards the future.

High-quality charging hardware

We use different types of charging hardware from multiple high-quality manufacturers – all to find the right charging solution for you. Stations, satellite chargers, wall boxes and even portable chargers could all be part of the solution that best fulfils your operational needs and prerequisites.

Smart charging software

Working smarter is more efficient than working harder, and a Charging Management System (CMS) adds that smartness to improve your business efficiency. A CMS can address both your vehicles operational preparedness, maximise your grid capacity usage, minimise power infrastructure investments, and day-to-day energy costs.

- Scheduled charging to avoid peak energy prices and minimise your energy costs.
- Staggered charging to maximise existing grid capacity, allowing you to electrify further without upgrading your grid connection.
- Load balancing to allow multiple vehicles to charge at the same time, prioritised for their upcoming transport assignment.

SCANIA
CHARGING

En-route with Scania Charging Access

Charging Access is the first solution developed specifically for public en-route charging for trucks. One simple and reliable solution without sign-up costs, monthly- or hidden fees – with one single invoice no matter how many charging cards or vehicles you have. Sign up to find truck-ready stations near you and follow the build-out of the charging network.

DIGITAL SERVICES AND REPAIR AND MAINTENANCE

WORK SMART AND CONNECTED

The goal of our services offer is to ensure that you feel not only confident and well-supported in your electrification journey – but that the services enable you to work in smart, modern and accessible ways. Empowered by insights and interconnected features from our digital services – in the driver’s seat, in the office – and in your phone for everywhere in between.

Smart Trucks and data sharing
As your doorway to the digital world of Scania, **My Scania** is a personalised web-platform that presents our unified ecosystem for digital services and products such as our fleet management features – accessible anywhere and anytime. And for drivers, we also offer both the **Smart Dash** and the **Scania Driver** app – with features such as driver grading and tips on how to improve further, as well as simplifying workflows like checklists and defect report handling.

It’s not about changing your business – it’s about electrifying it
Although we are all going through a major shift – our key focus is to make that shift a positive one for you. Our digital ecosystem and the services within it, are there to make every part of your operation smarter. More insightful, transparent, flexible and responsive. Simultaneously more proactive as well as reactive – based on well-informed decision making. More productive and efficient. And most importantly; more sustainable.

Supporting you based on your priorities
We approach the fully tailored solution from a business priority perspective to efficiently figure out a services setup that delivers on your business needs. Is your main priority uptime? Or would you rather say it’s energy efficiency or information flow that takes priority? We’ll make sure you get the services offer to match.

UPTIME SERVICES

ENERGY EFFICIENCY SERVICES

DATA INTEGRATION SERVICES

CONNECTIVITY THROUGH THE BEV CONTROL PACKAGE

A digital services package that empowers your electric operation with multiple services for smart and efficient insight and data sharing.

Departure Scheduling

Ensure that your vehicles are always ready when they need to be, with the battery charged and pre-conditioned for its upcoming assignment, and with the cabin climatized according to the driver’s personal preferences.

Range Support

With battery-electric vehicles, range is always an important factor. The Range Support service helps you understand each truck’s range in real-time, based on factors such as current battery level, cargo and the surrounding topography – and helps you plan your trip and charging stops accordingly.

Driver Evaluation

Operating a battery-electric truck in an energy efficient way requires drivers to adapt their driving style. Driver Evaluation helps fleet managers to monitor and improve the performance of their drivers through grading and ranking them in three disciplines that are suited to the particularities of electric vehicles.

Scania Charging Access

When depot and destination charging simply isn’t enough to cover the transport needs, Scania Charging Access provides easy and convenient access to a wide network of truck-capable public chargers.

CONNECTED REPAIR AND MAINTENANCE

In our overall Repair and Maintenance offering, we naturally include everything from vehicle service and needs-based workshop repairs to full coverage of a fleet repair and maintenance needs. But the connectivity in all our vehicles have allowed us to evolve our offering further to ensure both maximised productivity through maintenance and minimised downtime when the unplannable occurs.



- Flexible Maintenance uses intelligent data analysis to base your service intervals on your specific routes, road conditions and operational constraints, addressing maintenance needs before they become an issue – but never prematurely.
- Easy and accessible driver defect reporting with direct integration to the service planning tool.
- Remote diagnostics can identify problems early and prepare the workshop or service technician to arrive on site with the right spare parts already in hand.
- All with our world-class global service network as a backbone.



FINANCING AND INSURANCE

NOT ONLY FOR VEHICLES

When it comes to e-mobility, “unknowns” is a commonly mentioned word. And it’s a term many people associate with risks. However, the simple fact is that we have more than 130 years of transport industry experience – which means that we have far more known than unknown factors when examining the big picture.

For us, mitigating your risks is quite simply an integral part of our full solution offer. We cover everything from how to finance it, to ensuring you’re adequately insured – all through one party, eliminating those “unknowns”. We also have a very flexible approach to tailor our services to your specific needs, from the contract signing to continuously adapting to the evolving requirements.

FINANCING

When we say that we provide tailored financing of the full solution, we truly mean it. In addition to the vehicles themselves, the tailored package of services as well as the Repair and Maintenance contract, we can also

cover the charging component of the solution. This includes both charging hardware and charging management software.

We also offer multiple financing models, to ensure your options align not only with your operation, but also your business goals. Do you want to own your equipment outright, or do you want to mitigate risks related to factors like residual value through a lease? We understand your perspective and operational needs, and we understand how the numbers impact them. So, let us work together to determine the right solution.

For a truly green investment – green financing is also available for electric trucks.

All fully electric vehicles can be funded with “green bonds”, which means Scania uses funding exclusively available for “green investments”.

Financing coverage

- Vehicles – both new and second-hand
- Body building / customisation
- Trailers and auxiliary equipment
- Chargers & Charging infrastructure
- Repair and Maintenance contracts
- Digital services package

Financing models

- Loan / Hire Purchase
- Financial lease
- Operational lease

INSURANCE

The truth is that many traditional insurance companies are uncertain about how to cover electric vehicles, and these uncertainties are likely to be reflected in your premium. On the other hand, we have an in-depth understanding of our vehicles, right down to the last nut and bolt – and that goes for our electric vehicles as well.

What we can offer you is complete accountability, without any blame shifting or finger pointing. We focus on providing the fastest possible claims handling, while also ensuring your repairs are done at our world-class network of Scania workshops with only original Scania parts. All to make sure you get the maximum sense of safety and security for your operation, and that you get back on the road as fast as possible.

Insurance offers

1

Scania Casco Insurance

Scania Casco Insurance offers physical damage and collision coverage, with various options for deductible and premium balances.

2

Motor Third Party Liability

Meets legally mandated requirements, and offers protection against legal liability claims.

3

Scania Guaranteed Asset Protection & Return-To-Invoice

Provides coverage up to the full vehicle price in cases of theft or total loss of a vehicle, ensuring that you can cover any outstanding debt or fully replace your vehicle.

4

Scania Credit Life

Offers coverage for any outstanding debt in the case of death or disability, allowing you to recover any outstanding deposits paid on the vehicle.

RESPONSIBLE BUSINESS DEMANDS ACCOUNTABILITY

Sustainable transport is a journey of many steps. Steps that we need to take together. Not just vehicle manufacturers, transport providers and transport buyers – but also every party involved, down to the individual component suppliers.



Responsible batteries

Battery discussions are always relevant both in terms of range, capacity, battery management and charging speed – but also in terms of how they’re made, how the raw materials are sourced, and what happens to them after they’re no longer fit for the vehicle. And that’s why we are creating an ecosystem that supports circularity, with strategically located hubs and partners.

Re-use

Reuse is the first option in circular economy. A good example is mid-life renovation, where instead of mounting brand-new batteries that would outlast the vehicles, reused batteries whose lifetime matches the remaining vehicle lifespan can be installed.

Re-purpose

Even after reaching the end of their life in the vehicle, batteries can be used for applications such as Battery Energy Storage Systems (BESS). These systems can provide frequency balancing services to grid operators as more renewable energy sources are introduced, or to boost underpowered local electric grids.

Re-cycle

When the battery has reached a stage where it cannot be reused or repurposed, Scania has partnerships and infrastructure in place where precious raw materials such as cobalt are recycled to reduce the need for virgin material in the production of new batteries.

A sustainable supply chain

Our battery cell supplier Northvolt has the vision to build the greenest battery in the world, with a minimal environmental footprint. Already today, Northvolt manufactures cells with lower CO₂ emissions than the industry average – and are constantly reducing their emissions to meet their 2030 target of 90% reduced emissions compared to the 2021 industry standard.

At Scania, we put strict requirements on our suppliers regarding fulfilment of the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas, and demand transparency in the supply chain. We also perform third-party audits on the suppliers in the

supply chain, and we’re proud to say that we thoroughly vet both our direct suppliers, but also their suppliers going down the chain – five layers deep.

Life cycle analysis

Preliminary analyses show that with an energy mix at 47 g CO₂e/kWh, the life-time CO₂ reduction is 85% – achieving break-even* at approx. 40 000 km for a truck in regional operations. For an energy mix with higher CO₂ emissions, break-even* will take longer – but even at 300-400g CO₂e/kWh, it is achieved within 100,000 km.

The first step to operating responsibly, is buying responsibly

So, our call to you – our challenge even – is to keep us accountable. To follow our lead and demand sustainability in more ways than just looking at energy efficiency and emissions per transport. We know we are up to the task. And if you have any questions regarding our responsible sourcing, our batteries, or our Life Cycle Analyses – don’t hesitate to contact us.

* LCA (Life Cycle Analysis) break-even is defined as when the lower emissions from electric vehicle operation will have fully offset the higher emissions from production of a battery electric vehicle.



