SCANIA HYBRID TRUCKS

SCANIA

HEV

HYBRID ELECTRIC TRUCK

With our HEV offering, you can experience our amazing dual electric machine clutchless six speed gearbox in tractors and trucks with shorter axle distances. The hybrid electric truck charges its batteries through regenerative braking – allowing electric operation for up to 15 km – and spectacular drivability overall.

Tractor or Rigid HEV	
Wheel configuration	4x2, 6x2, 6x2*4
Axle distance	3600 – 6350 mm
Cab options	L, P, G
Electric propulsion & gearbox	90 kW with separate loop oil cooling 6 speed, clutchless, dual input shaft transmission and power split unit integrating two electric machines through a planetary gear system with continuous torque transmission.
Combustion engine options	DC07 220 – 280 hp DC09 280 – 360 hp
Battery capacity	30 kWh (Installed) – up to 15 km range
GTW	Max 36 t

PHEV

PLUG-IN HYBRID ELECTRIC TRUCK

The plugin-hybrid truck allows for recharging not only between shifts, but also during loading and unloading. In urban or regional distribution – this means a large part of the vehicle operation can be fully electric. Coupled with our connected services you also get fully automated switching between combustion engine and electric operation based on both geographic zones and time schedules.

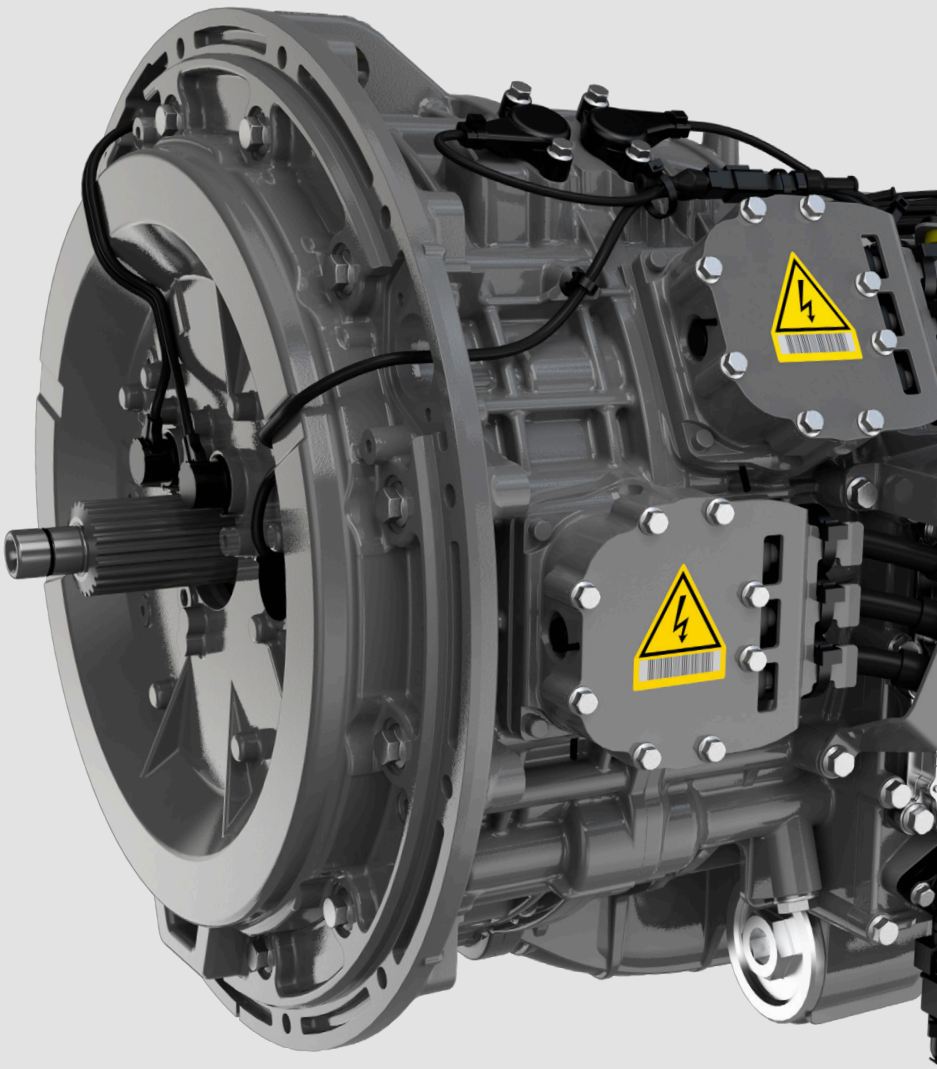
Rigid PHEV with optional ePTO	
Wheel configuration	4x2, 6x2, 6x2*4
Axle distance	4350 – 6350 mm
Cab options	L, P, G
Electric propulsion & gearbox	230 kW with separate loop oil cooling 6 speed, clutchless, dual input shaft transmission and power split unit integrating two electric machines through a planetary gear system with continuous torque transmission.
Combustion engine options	DC07 220 – 280 hp DC09 280 – 360 hp
Battery capacity	90 kWh (Installed) – up to 60 km range
Charging	CCS 95 kW / 145 A DC 35 min charging time (at 95 kW)
GTW	Max 36 t

THE POWERTRAIN FOR A NEW GENERATION

The new Scania hybrid powertrain available for both our HEV and PHEV trucks brings massive improvements to both overall driveability and versatility. Our updated hybrid powertrain is built around an in-house developed six speed dual electric machine clutchless gearbox, boosting the electric power from 130 kW previously to 230 kW. With the additional electric power – we have also complemented the 9-litre DC09 (280 – 360 hp) combustion engine with the option of our 7-litre DC07 (220 – 280 hp) engine for even more flexibility.

Benefits of our new gearbox and powertrain

- Up to 100 hp of instant electric kickdown power providing spectacular acceleration
- Uninterrupted regenerative braking during downshifts
- Continuous creep at close to zero speed
- Ability to shift between reverse and first gear without standing still in between
- Seamless and instant gearshifts even under heavy load
- No clutch, shaft brakes or synchronizers that wear out, meaning less maintenance needs and better uptime
- Electro-mechanical PTO that works during standstill, take off and gear shifts – no need for costly specialized electric PTO-solutions
- Possibility to downsize the combusion engine for even better energy efficiency without compromising on performance
- Up to 17% energy efficiency improvement in regional operations, and up to a massive 40% energy efficiency improvement in in urban operations



CHARGING

Understanding when, where and how you're going to charge or top up your batteries is key – which is why we'll help you every step of the way.

01
PLANNING AND LAYOUT
Where, when and how you should charge ideally.

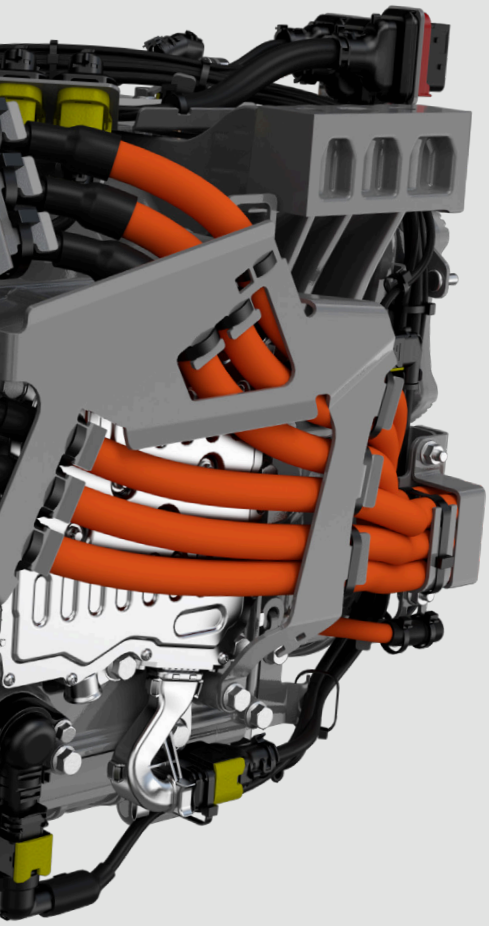
02
GRID CONNECTION
How and from whom you source the power you need in these locations – including green energy contracts and potentially even local power generation.

03
CHARGING HARDWARE
How much charging capacity and how many chargers are needed – short term and long term. Could you benefit from local energy storage?

04
FINANCING
How you finance charging hardware and infrastructure – initial investment vs long term plan.

05
INSTALLATION & MAINTENANCE
Physically planning out and installing chargers, as well as setting up plans for maintenance.

06
SMART CHARGING – ENERGY MANAGEMENT
The services and software tools to help you charge at the lowest possible spot prices and stay on top of your usages in real time.



SMART CHARGING IS SMART BUSINESS

Smart charging is a wide concept and can mean a lot of things, but in general it's about controlling the charging – providing both logistic and financial advantages.

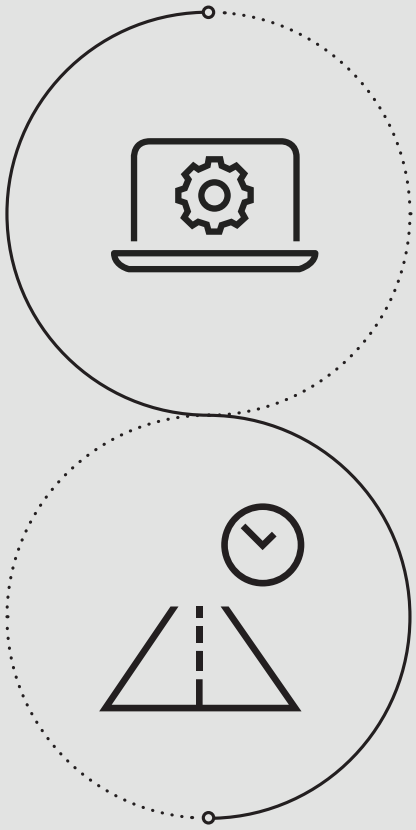
At the core of a smart charging system, you will always find an Energy Management System (EMS). By ensuring all the chargers communicate with the EMS, and can be controlled by it – it´s possible to limit the charging power according to the needs, to a schedule or to the grid limitation at a specific time. A smart charging system will not only maintain the best possible battery condition over time, but can also solve the problem when the depot doesn't have enough capacity available for all installed chargers. This is done using smart rescheduling of the charging to when power is available – while still ensuring that the vehicles are charged enough for the upcoming transport mission.

- Charges when prices are low, while simultaneously reducing your investment in peak energy capacity in your contract and infrastructure.
- Secures uptime by scheduled charging, ensuring you don't have to turn down transport assignments.
- Reduces your charging infrastructure investments by more efficiently sharing chargers and power.

ALWAYS READY FOR THE ROAD

Successfully electrifying the transport industry has to begin with removing risks, unknowns and worries for those doing the transports – for you. That's why a repair and maintenance contract for the lifetime of your vehicle comes as a core part of our electric offering.

Electric vehicle technology on this scale is brand new, and besides from charging standards, implementations and longterm maintenance practises are far from standardized between vehicle manufacturers. This puts new and different requirements on workshop skill sets, knowledge and certifications to support that technology, as compared to combustion engine vehicles. Our class-leading global service network ensures that your electric Scania vehicles never stand still, unless for when you've planned for it. And with an electric vehicle solution from Scania – access to that network is always included, making sure you're never on your own.



Full repair & maintenance program to ensure class leading uptime

A contract that goes far beyond manufacturer's warranty. From the day of delivery, to the day you retire a vehicle – it will be covered through our global service network, with top availability of spare parts and technicians that know every part of your vehicles, down to the last nut and bolt.

Flexible maintenance

With proactive planning of maintenance based on real live data from your vehicles, we can not only minimize the risks for potential repairs, but workshop visits can be planned together with you, and scheduled so they never interfere with your transport operations.

- **Peace of mind**
- **Reduced financial risk**
- **Maintains maximised energy efficiency**

YOUR PARTNER, PROBLEM SOLVER AND TRUSTED ADVISOR

An integral part of our offering is about providing you with not only answers to your questions, but also help you implement concrete solutions and provide services or contracts for every aspect of your electrified operation. To make electrification work – not only for your transports, but for your business. That's why every electric vehicle sale also comes with a long-term relationship, bundled with the services needed to maximise your return on investment.

When and how to go electric?

Is my business ready to start electrifying? Which routes? What vehicle specifications? By analysing your fleet data, we can help you take one measured step towards electrification at a time, while ensuring they're consistently leading to where you want to be in a decade or two.

Environmental incentives

Finding and applying for the right environmental incentives can be the thing that puts electric operation on the right side of the margins. We'll help you figure out what is relevant for you, in your country and region.

Financing & insurance

Electric vehicles may seem like they come with a lot of unknowns – long term costs, vehicle lifetime and maintenance expectations, as well as resale value. Through our financing and insurance solutions, you shouldn't have to worry – we'll structure a contract so that you'll know your costs all the way through.

Fleet management and planning

With electric operation, range is key – and maximising the utilisation matters more than ever. We will help you stay on top of the details of your operation, down to every last transport.

Tailored driver training for electric vehicles

Recuperating energy with electric vehicles actually puts range back in your batteries. Each driver can help make your operation more profitable, because maximising range per kWh is a skill that can be both taught and learned.

Increased utilization with new transport opportunities

Through silent and clean electric operation, you can increase the utilization of your vehicles to more hours of the day, and in areas that were previously restricted – like inner cities where heavy transports are becoming increasingly more restricted year by year.

Why electrification?

We don't take electrification lightly – and neither should you.

As scientists and engineers, we have confidence in the consensus of the global scientific community. The acceptance that we all have to do our share to reach the world's climate goals – as well as the conclusion that electrification of transport is an integral part of getting there.

As part of the global transport industry, we acknowledge that while we are a necessity for our modern society to function, we are also responsible to do our part and constantly better ourselves.

As a business and brand more than a century old, we understand the big picture – the long-term picture. That change often leads to something better, and that overcoming resistance makes us stronger.

We feel great pride in our commitment to Science Based Climate Targets. With these targets as our guiding star, Scania will not only take action to meet the goals of the Paris Agreement and limit global warming to well-below 2°C above pre-industrial levels – but actively pursue actions to further limit warming to 1.5°C.

Taking an active role in transforming an entire industry may be challenging, but it's definitely worthwhile. And working together, it's also very possible. We want to be part of the solution, not the problem – and if you are reading this, we think you feel the same way.

SCIENCE BASED TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

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