



Mercedes-Benz

BlueTecEco. Save fuel. Help protect the environment

Trucks you can trust



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BlueTecEco. Eases the burden of fuel costs and the burden on the environment

Here at Mercedes-Benz Trucks we have devised BlueTecEco – a package consisting of all the products and services which make a significant contribution towards injecting more economy and ecology into transportation. In concrete terms this means that BlueTecEco stands for efficient, fuel-saving and therefore environmentally friendly vehicle technology.

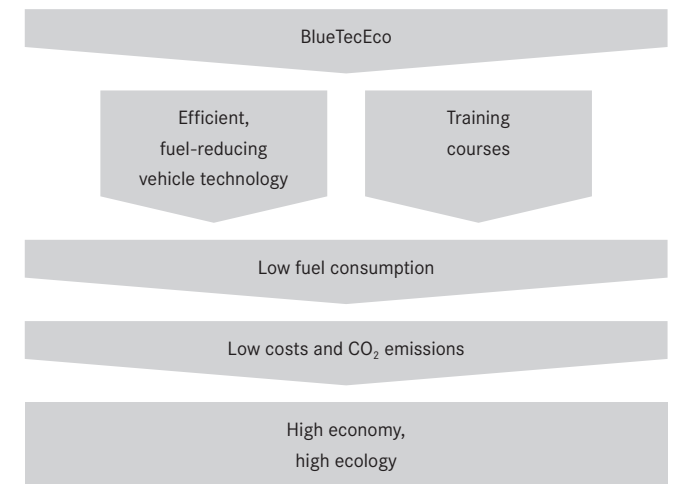
As a complete package of measures for particularly economical and sustainable transport solutions, BlueTecEco focuses on all the opportunities that are available to you for saving fuel on a daily basis. This is why BlueTecEco also comprises training courses alongside state-of-the-art vehicle technology and vehicle configurations which are perfectly tailored to the particular application in question. Our aim is always to be on hand as your partner to advise you on fuel consumption and environmental matters – today and in the future.

BlueTecEco: save fuel. Help protect the environment. Every litre of diesel saved relieves the environment of around 2.64 kg of CO₂.



BlueTecEco. For more efficiency and economy in your fleet. And for a better environment

An overview of BlueTecEco



With efficient, fuel-reducing vehicle technology plus an extensive range of training courses, BlueTecEco helps you make every journey more economical and at the same time more environmentally friendly



Our innovative, efficient technology has a long tradition – and a big future

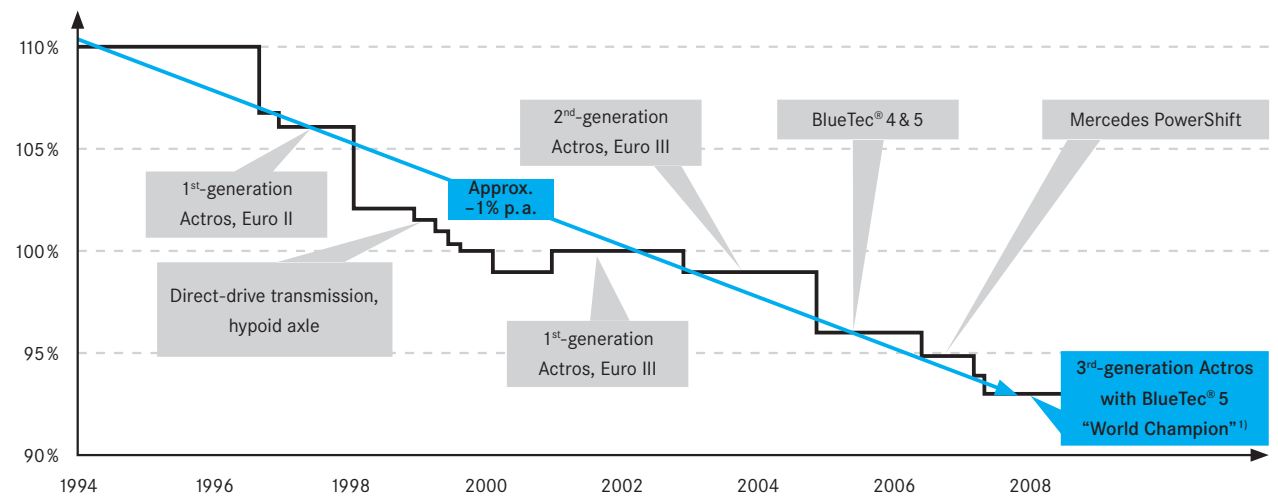
Economy and environmental protection have a lot in common – one of the reasons being that both have always been a matter of technology. There are many examples to illustrate this – for solid evidence you need look no further than the Actros, Axor and Atego.

Whether you're on the motorway, rural roads, in town or on the construction site, low fuel consumption is enormously important. That's why we are constantly working to reduce consumption. Here are some of the major results of our development work:

- BlueTec® engines
- Mercedes PowerShift automatic transmission
- Motor Stop/Start system
- Optimised aerodynamics
- Intelligent engine ancillaries (e.g. the optimised compressed air control system)
- Entering production from the end of 2010: Atego BlueTec® Hybrid

And there are many other technical measures which ensure that the Actros, Axor and Atego are making do with less and less fuel all the time – whilst their transport performance remains at the same high level. See for yourself!

Fuel-consumption delta using the Actros as an example



Continuously reduced diesel consumption: it was a long journey from the SK, the former "heavy-duty class", to the record Actros drive in Nardo¹⁾. But the journey shows that the most sophisticated technology and permanent vehicle optimisation pay off. In euros – and in measurably less CO₂

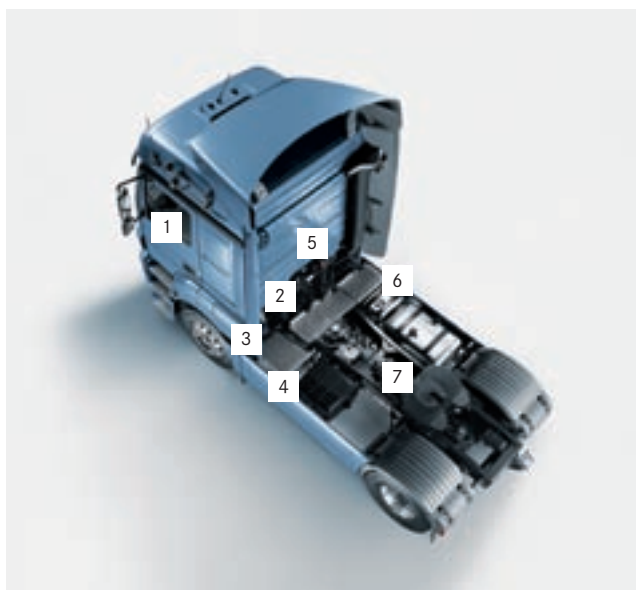
¹⁾ See page 7: world record with BlueTec®

The key to considerably lower consumption and fewer emissions: BlueTec®

Economical compliance with Euro 5, lower consumption, fewer particulate matter emissions and an extremely low CO₂ output – these are the main advantages of BlueTec® 5 employing SCR diesel technology from Mercedes-Benz.

Thanks to BlueTec® you can look to the future with confidence. As well as the considerably lower consumption compared with Euro 3 and economical compliance with Euro 5, BlueTec® is also the optimum solution where particulate emissions are concerned. Because no other Euro 5 technology reduces particulate pollutants so effectively.

The BlueTec® 5 engines impress with their low fuel consumption and particularly low-pollutant and low-particulate combustion. As exhaust gas leaves the engine AdBlue is injected into the hot exhaust gas flow, where it reacts to form ammonia, which is later required for the chemical reaction in the catalytic converter. Here the nitrogen oxides (NO_x) are turned into the harmless substances nitrogen and water.



BlueTec® consists of the following components: 1. BlueTec® system displays and system diagnosis in the cockpit 2. Control and metering unit 3. AdBlue injection 4. Stainless-steel silencer with integral SCR catalytic converter 5. More advanced engine 6. AdBlue tank 7. Delivery unit



Advantages at a glance

- Future-proof BlueTec® engines with low consumption
- Low particulate, nitrogen oxide and CO₂ emissions
- Long maintenance intervals

BlueTec® – highly reliable and low-maintenance:

Further advantages of BlueTec® are its high reliability and particularly long oil-change intervals, amounting on the Actros, for example, to as much as 150,000 km, and up to 0.5 % fewer CO₂ emissions¹⁾ compared with vehicles whose maintenance intervals are half as long.

Guinness world record with BlueTec®. With a consumption of just 19.44 l per 100 km during its world record on the Nardo test track, the Actros²⁾ showed just what today's trucks are capable of. Only technology that is available for series-production vehicles was used, such as BlueTec® 5, Mercedes PowerShift 2, super-wide tyres³⁾ and aerodynamic trim for the tractor vehicle and semi-trailer.

But the record test drive in Nardo also shows something else that is crucial: the vehicle technology is responsible for less than 60 % of consumption. The rest, more than 13 l per 100 km, is influenced by factors such as the weather, traffic conditions, topography and driving style. In short: the Nardo world record illustrates the enormous potential for savings which the Actros, Axor and Atego place at your disposal – now and in the future.

¹⁾ 1 l oil $\hat{=}$ approx. 19 kg CO₂

²⁾ Actros 1844, 320 kW (435 hp)

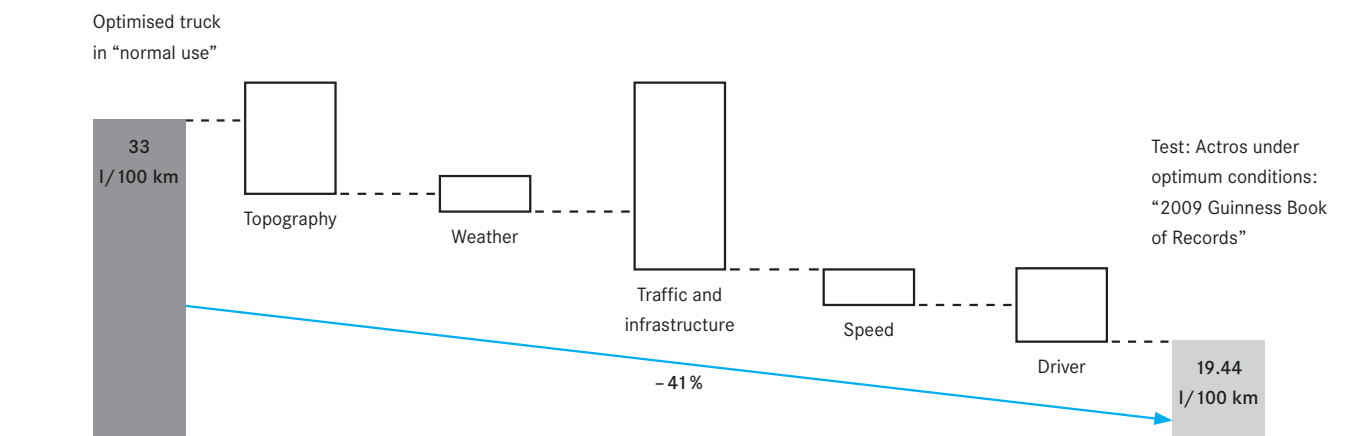
³⁾ Legal restrictions apply in the UK

⁴⁾ The figures may increase or decrease



For even more economy certain Actros and Axor models are available with various Economy Packs ex factory. You can save on consumption as well as procurement costs thanks to the optimum bundling of consumption-reducing equipment features such as aerodynamic side trim, an adjustable wind deflector and cab side deflectors. All of these pay dividends – from day one. And over the truck's entire useful life. Your authorised Mercedes-Benz dealer will be happy to advise you.

Non-product-related factors influencing fuel consumption⁴⁾



Advanced, consumption-reducing vehicle technology is one of the decisive prerequisites for economical and environmentally aware road-use. But only those who know about and take into account the influence of factors such as driving style, speed, traffic conditions, weather and topography will be able to exploit fully the savings potential that comes with today's trucks

Technology that impresses, saves you money and goes easy on the climate

Mercedes PowerShift¹⁾, the Motor Stop/Start system³⁾ and the Atego BlueTec[®] Hybrid⁴⁾ are just three examples of innovative solutions that can help you to save a whole lot of fuel and CO₂.

Mercedes PowerShift.¹⁾ The logical advancement of the Telligent[®] automatic transmission, Mercedes PowerShift offers everything that entrepreneurs and drivers expect from a sophisticated gearshift: high economy and first-class handling. The automatic transmission is available with 12 or 16 gears – facilitating optimum, application-oriented drive-system configurations in all output classes. Separately selectable programs, additional functions which can be engaged in a targeted manner and fast, particularly smooth operation enhance ride comfort and safety and reduce wear and consumption. And Mercedes PowerShift offroad²⁾ is available as an option to meet the challenges posed by the construction site.

¹⁾ Mercedes PowerShift 2 standard in the Actros,
Mercedes PowerShift optional in the Axor C

²⁾ For Actros 6 x 4 and 8 x 4 dump trucks and concrete mixers



Mercedes PowerShift¹⁾ in a nutshell: reduced consumption, fast, smoother shifting, more dynamism and optimum vehicle handling


The Motor Stop/Start system.³⁾ Launched back in 2000 and available exclusively from Mercedes-Benz for trucks from 7.5 t, the fuel- and CO₂-reducing Motor Stop/Start system (MSS) is fitted in every second Axor and Atego that leaves the factory. MSS – available as standard in the UK on Axor R and Atego (not on two-pedal operation) – automatically switches the engine off in stop-and-go traffic or when waiting at traffic lights. And as soon as things start moving again, it turns the engine back on. This relieves the strain on the driver and saves a great deal of diesel whilst also ensuring that the amount of CO₂ emitted into the environment falls by up to 3%.




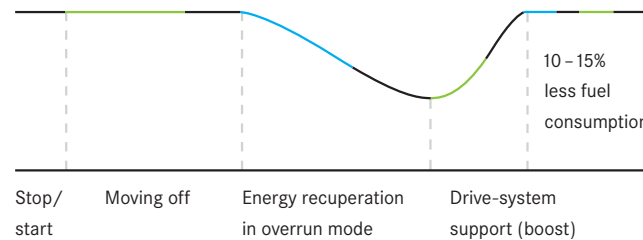
The Atego BlueTec® Hybrid⁴⁾: the perfect combination of a diesel and electric drive system leads to 10 to 15% less fuel consumption in short-radius distribution

The Atego BlueTec® Hybrid.⁴⁾ In addition to the major fuel saving and the low CO₂ emissions the Atego BlueTec® Hybrid has many more advantages to offer – such as less brake wear and the fact that it is especially gentle on the major assemblies in overrun mode. The electric drive system also ensures much more sensitivity when manoeuvring. Lower noise emissions when moving off, long maintenance intervals and high reliability are further benefits that the Atego BlueTec® Hybrid brings in short-radius distribution.

Atego BlueTec® Hybrid⁴⁾ in action

 Battery recharging: braking energy is recuperated

 Battery discharging: recuperated energy is made available



Here's how the Atego BlueTec® Hybrid⁴⁾ makes the all-important savings: the energy released during braking is recuperated in the form of electrical energy, stored in lithium-ion batteries and used again for driving the electric motor in overrun mode

Significant details that are anything but trivial. But alongside pioneering developments such as BlueTec® it is very often also the technical details that decide whether a truck will be economical – and thus environmentally friendly – as it goes about its daily work. The results of development work – such as the aerodynamically optimised A-pillar for the Actros, the enhanced compressed air control system⁵⁾ and the electronic dual-stage-controlled water pump⁶⁾ – make important contributions towards lower consumption.

Advantages at a glance

- Mercedes PowerShift¹⁾ for low consumption and optimum vehicle handling
- Available exclusively from Mercedes-Benz: Motor Stop/Start system³⁾
- Atego BlueTec® Hybrid⁴⁾ means 10–15% lower fuel consumption, less wear and reduced noise emissions

³⁾ Available for Axor up to 240 kW (326 hp) and Atego in conjunction with manual transmission

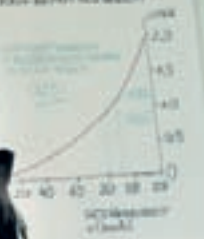
⁴⁾ Start of production: from the end of 2010

⁵⁾ Only on 4 x 2 semitrailer tractors

⁶⁾ On selected engines



ENTWICKLUNG DER VERBRAUCHS-
WERTUNG BEI 40, 60, 80, 100 km/h



Verbrauch (l/100km)

100 km/h

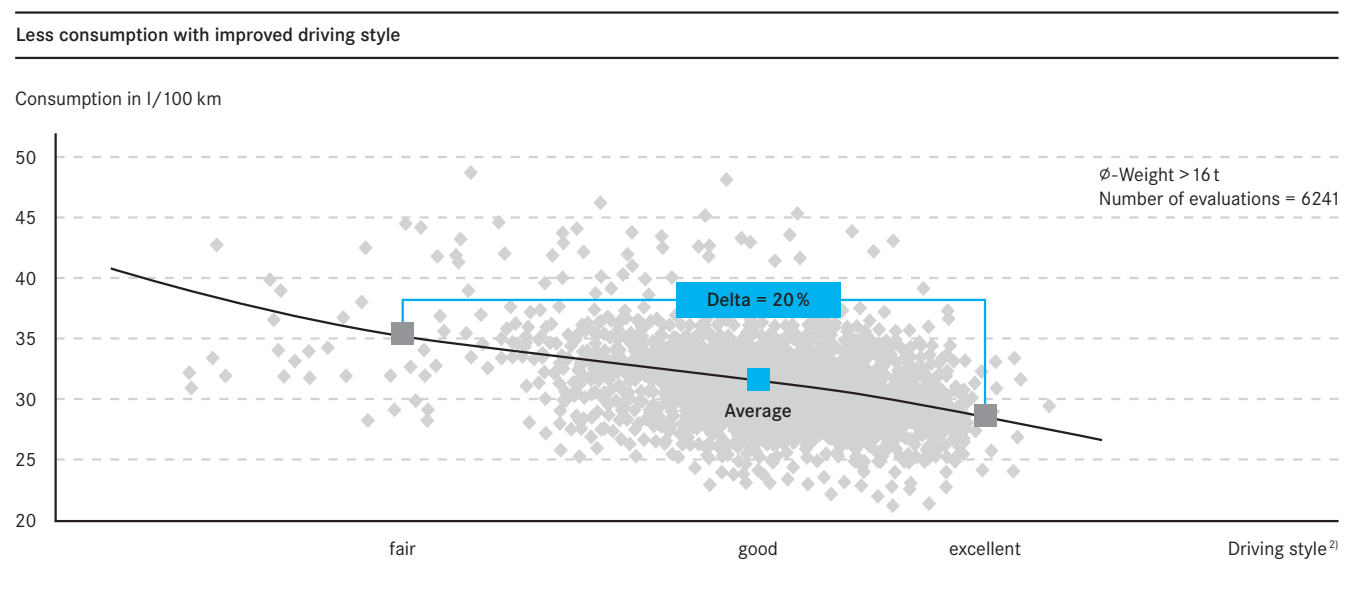
BlueTecEco brings together what belongs together: the most up-to-date technology and extensive knowledge

In today's world, if you want to be both economical and environmentally friendly when out on the road, it takes more than just progressive vehicle technology. You also need practical knowledge and technical skill. BlueTecEco has the answers.

The Actros world record in Nardo¹⁾ showed that only a good 60% of consumption can be traced back to the vehicle technology itself. In practice, this means that in order to reap the full benefits of the potential that lies within the Actros, Axor and Atego, it is essential to take a detailed look at the theory behind the facts. BlueTecEco can help you reduce consumption, because with training courses, application-oriented, practical instruction sessions and services such as FleetBoard[®], at Mercedes-Benz Trucks we pass on our consolidated know-how to you. And in our role as a trainer we also create the conditions that are necessary in order for you to tap into the full potential of Mercedes-Benz Trucks effectively, economically and ecologically. Every single day. Kilometre after kilometre.

¹⁾ Actros 1844, 320 kW (435 hp)

²⁾ Based on FleetBoard[®] analysis of driving style



In 2009 there were more than 30,000 vehicles with FleetBoard[®] on the roads. FleetBoard[®] also confirms that the driver can influence fuel consumption significantly

BlueTecEco – measures you shouldn't cut out if you want to cut down

When it comes to saving fuel – and thus looking after the environment – while you're out and about, we'll use all the means it takes, such as training courses and services like FleetBoard®, the online fleet management system from Mercedes-Benz.

BlueTecEco Driver Training has just one aim: to improve drivers' knowledge and technical abilities so as to reduce fuel consumption on a daily basis. During the BlueTecEco driver training course we use theory and practice to explain how fuel can be saved – often more than 10 % – with the same high transport performance and at the same average speed. In addition, the two day course in the UK gives drivers 14 hours towards their Driver CPC.

BlueTecEco Training for Trainers was developed specially for those in charge of fleets. It serves to strengthen your skills and deepen your knowledge where saving fuel is concerned. We also tell you how you can successfully pass on your know-how so that you can act as a coach for your company's team. We provide you with plenty of support in the form of all the latest training documentation and we show you how you can put everything you have learned into practice most effectively. In addition, the three day course in the UK provides 21 hours towards your Driver CPC.



In the BlueTecEco Training for Trainers you will learn – amongst other things – how you can pass on your own know-how and all your experience to others effectively

FleetBoard® - the online fleet management system from Mercedes-Benz offers a whole host of opportunities for injecting more efficiency into vehicle and transport management. For instance, FleetBoard® means optimised logistical procedures and increases the quality of service for your customers. It also helps you achieve optimum utilisation of maintenance intervals and facilitates short downtimes which can be planned in advance. In addition to this, extensive driving and consumption analyses can be performed, whereby the driving style is assessed using factors such as acceleration, braking, engine speed and forward planning. By analysing the data objectively it is then possible to work together with the driver towards a fuel-saving driving style. And experience has shown that lower consumption is usually achieved within a short space of time. FleetBoard® can also help to establish other reasons for high consumption and eradicate them by implementing appropriate measures.



The vehicle technology is constantly undergoing further development – so it's essential that the team's knowledge and skills are also regularly updated



Thanks to the FleetBoard® driving analysis, the root causes of high fuel consumption can be determined and eliminated without delay by implementing concrete measures



During BlueTecEco Driver Training, experienced instructors explain how to travel from A to B in a more relaxed, more efficient and more economical manner

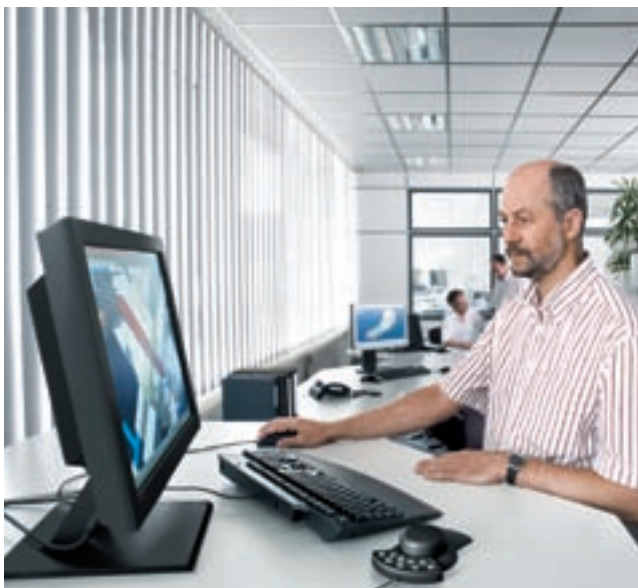
High time to think about the future

We started thinking about the future early on, and more than anything else we see it as an opportunity – to develop sustainable transport solutions that do justice to both economy and the environment.

Thanks to the constant optimisation of engine and exhaust-emissions technology, consumption has been cut by around 30% in the last 40 years – and in the future we shall continue doing all we can to reduce fuel consumption further with our application-specific solutions. One of the significant steps on this road is the Atego BlueTec® Hybrid, which is pointing towards less consumption in short-radius distribution – on the way to turning the vision of emission-free transport into reality.

What's more, all of our vehicles are designed to be almost entirely recyclable, which saves raw materials and energy, reducing the quantity of waste generated.

And all Mercedes-Benz truck plants are certified in accordance with the ISO 14001 environmental management standard. Because it's not just the low consumption that identifies a truck as environmentally friendly – the environment-conscious conditions in which it was produced are equally important. This is certainly the case today – and it will continue to be so in the future, too.



Environment-focused research – apart from developing alternative drive systems for the future, our driver assistance systems and FleetBoard® are also subject to ongoing optimisation, as they still hold untapped potential for lowering fuel consumption and pollutant emissions



The Wörth plant, where the Actros, Axor and Atego are manufactured, operates an environmental management system, which is regularly scrutinised by independent environmental auditors and exceeds the requirements of the EMAS and ISO 14001 environment standards



BLUETEC
HYBRID

Atego

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