



Mercedes-Benz

# The Econic with gas technology

Mercedes-Benz semi-trailer truck for urban logistics, internal plant and distribution operations





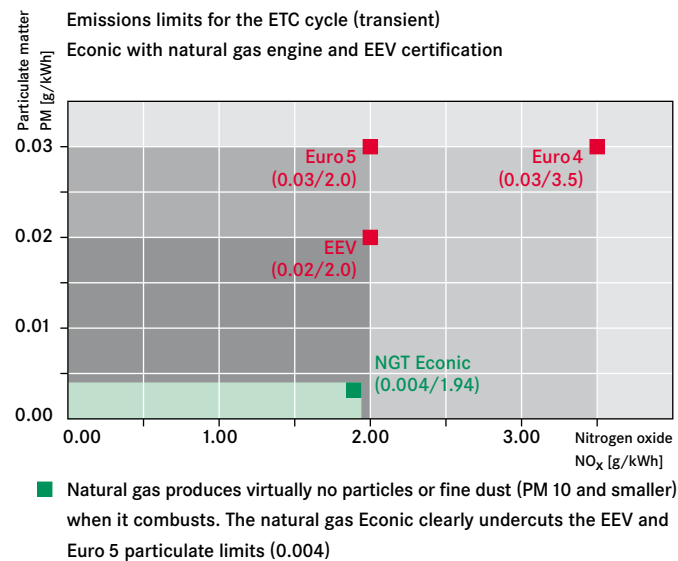
## An urban logistics solution powered by gas? The Eonic has all the answers

Narrow streets, traffic-reduced zones, illegally parked vehicles and restricted access routes, not to mention increasing environmental regulations, operating bans and extremely tight deadlines – urban logistics activities place particularly heavy demands on drivers and vehicles alike. Help is at hand in the form of the Eonic, which is able to bring together attributes usually regarded as irreconcilable: the high transport capacity of a truck, the manoeuvrability of a van and the ergonomics of a low-floor vehicle. And being powered by gas, it does all this more economically and with less environmental impact than ever before, thanks to significantly reduced fuel costs and exemption from operating restrictions, even in low emission zones.

# Now you can hit the gas when others have to stop. How you and the environment benefit

In a world where operating bans, city tolls and low emission zones are set to become increasingly common, it's reassuring to know that the Econic's drive concept and active contribution to environmental protection put you an all-important step ahead of any future environmental policy moves. Moreover, the Econic gives you access to areas denied to other trucks. Natural-gas contains next to no pollutant precursors and therefore burns particularly cleanly. The Econic natural-gas engine complies with the rigorous EEV (Enhanced Environmentally friendly Vehicle) standard. In fact, its CO<sub>2</sub>-emissions are already below the limits set by the Euro5 standard and are virtually non-existent when running on biogas.

Extremely smooth running characteristics are a welcome side-effect of the more gentle natural-gas combustion process: noise emissions from the natural-gas engine are as much as 50% lower than those from a comparable diesel engine equipped with noise encapsulation. So, in addition to the reduction in pollutant emissions, there are also noticeable benefits for local residents, for whom the reduction in traffic noise (always a sensitive factor in urban logistics operations) represents another clear advantage for the Econic.



## Advantages at a Glance:

- Certified in accordance with the EEV emissions standard
- Effective avoidance of particulate/fine particulate emissions
- CO<sub>2</sub>-neutral when running on biogas
- Significantly lower fuel costs
- 50% lower noise emissions
- Freedom to operate in low emission zones and areas where operating bans apply
- Reduction or elimination of congestion charging areas costs, Toll Collect, etc.
- High image value



# Low-floor concept and an environment-friendly drive system: the technology of the Econic in detail

It's not just in the context of emissions that less means more. The consistent low-frame design of the Econic makes it easier to get in and out of the cab, which has a level floor throughout. Ergonomic working practices put less strain on people and equipment, sickness levels fall while efficiency and motivation increase.

At the same time, the low-floor concept provides maximum flexibility when it comes to the range of bodies which can be fitted: they can be lower and more compact while still offering the same cargo volume and payload.

Roadholding also benefits greatly from the Econic's low-frame design and the resulting low centre of gravity. The electro-hydraulically steered forward-trailing/trailing axle makes the Econic extremely manoeuvrable, while the standard-fit all-round air suspension – available with an optional integrated raising/lowering system – provides optimum ride comfort.

## Natural gas or biogas? The choice is yours

As an alternative to CNG (compressed natural gas at a pressure of 200 bar) you can also run the Econic on LNG (liquefied natural gas – this can be natural gas or biogas). LNG provides a greater operating range, because, compared with CNG, twice as much of this fuel can be carried in the same storage volume. We can equip your Econic to run on whichever fuel you prefer. It is also possible for an NGT Econic to be retrofitted at any time to run on CO<sub>2</sub>-neutral biogas – without the need for any technical modifications to the engine.

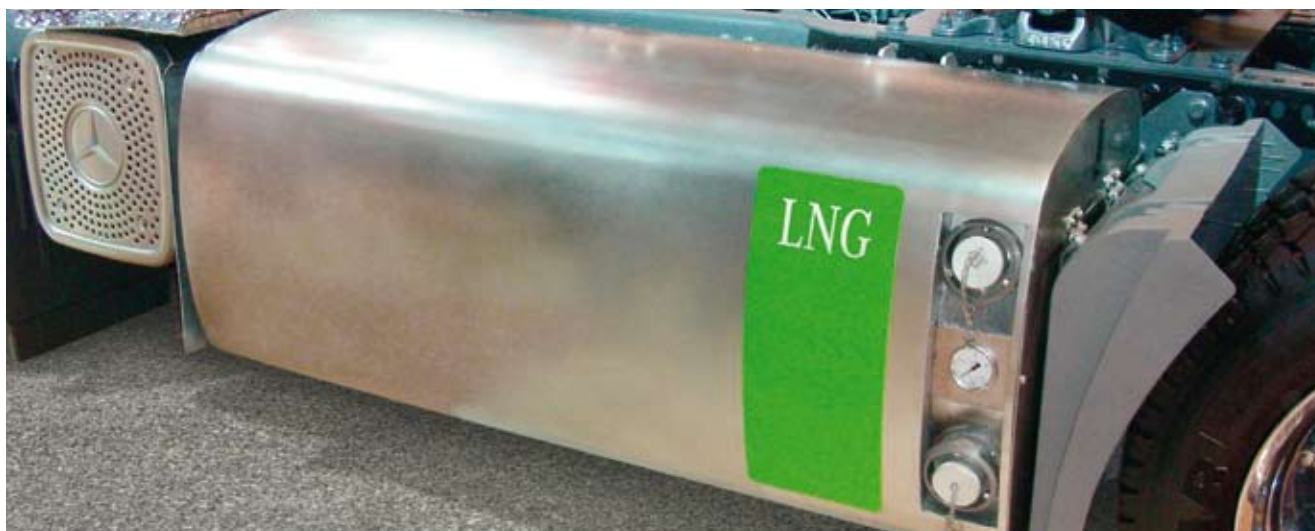


The Econic standard cab with full standing height and a level floor throughout makes for easy boarding and alighting. It offers space for up to three co-drivers in addition to the driver



#### Advantages at a Glance:

- Low-floor design with extremely low centre of gravity
- Low overall height
- Low/high cab with level floor, easy through-cab access and no engine tunnel
- High degree of manoeuvrability
- High safety standards
- Frame with good equipment mounting ability
- Rugged PTOs



The high-pressure tanks are designed to meet the highest safety standards and provide sufficient capacity for the requirements of daily operation in the fields of urban logistics, internal plant and distribution operations

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