

**BNOx** EFFICIENT AND INEXPENSIVE PATH TO EURO 6 VALUES

- **Blue sticker thanks to BNOx:**  
 The retrofit of diesel passenger cars with the BNOx system from Baumot creates the conditions that enable drivers to circumvent driving prohibitions in major German cities.
- **Smooth retrofit for Euro 6 values:**  
 With the BNOx system, EURO 5 diesel passenger cars can be easily retrofitted for EURO 6 exhaust gas standard.
- **The inexpensive solution for retaining value:**  
 At around EUR 1,500 (plus installation), the cost of the BNOx system represents a fraction of the market value of the diesel vehicles concerned.
- **BNOx is ready for the market:**  
 Numerous tests and third-party studies confirm that NOx is reduced by an average of 93% under real conditions (RDE) and that the BNOx system is ready for the market as a result.
- **Compatible with all standard engine types:**  
 With its small size and modular configuration, the BNOx system requires relatively little packaging space and can therefore be installed in all conventional diesel vehicles.
- **Suitable for both retrofit and original equipment:**  
 BNOx system technology can be installed either subsequently as a retrofit or as original equipment in diesel vehicles.

**INDEPENDENT OPINIONS**

„The introduction of the blue sticker requires comprehensive communication in advance. It also requires the development of retrofit technology for vehicles which are not equipped with the appropriate exhaust gas treatment system.“

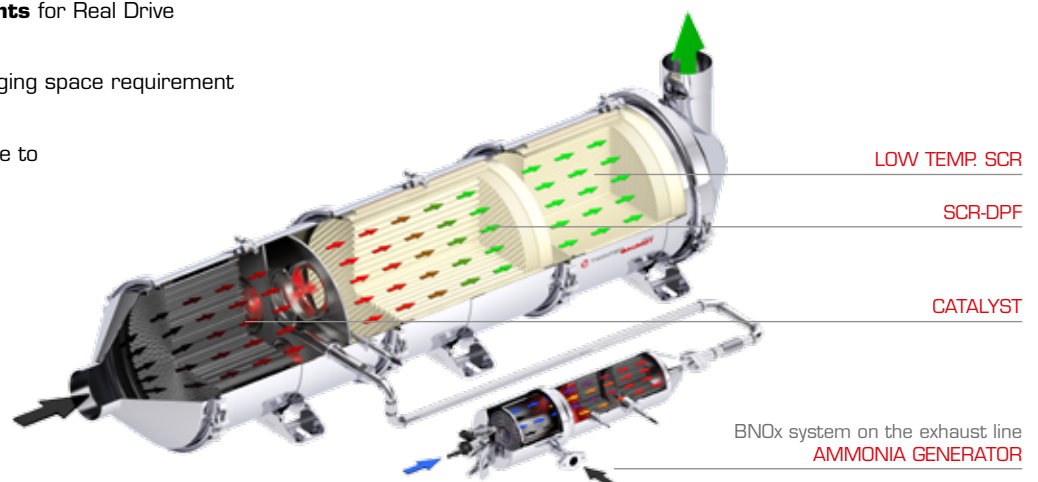
- Deutsche Umwelthilfe e.V.

„Blue badge: Some 13 million diesel drivers would not be able to get one. The ADAC demands technical solutions instead of driving prohibitions.“

- ADAC e.V.

**BNOx SYSTEM OFFERS COMPETITIVE ADVANTAGE**

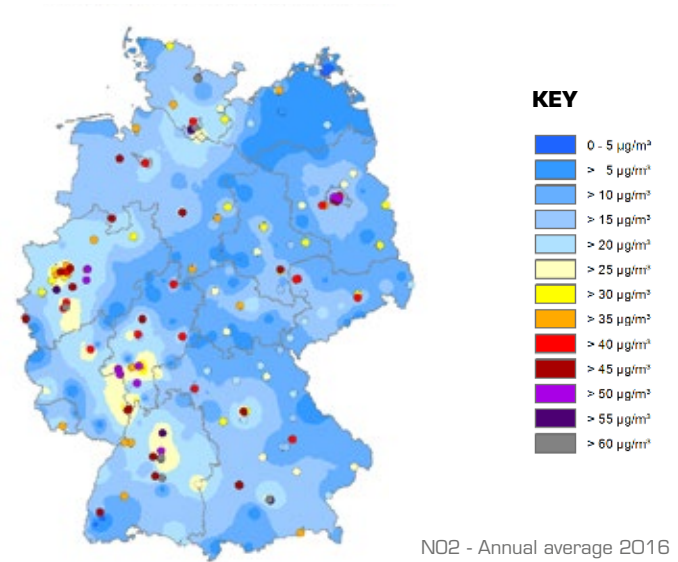
- **Highly efficient nitrogen oxide reduction under real conditions**
- **Already meets future requirements** for Real Drive Emissions (Euro 6c)
- **Flexible to use** due to small packaging space requirement and optimal temperature profile
- **Low system integration costs** due to modular configuration



## SITUATION IN GERMANY

- As a result of increased emissions, all large cities and conurbations in Germany are affected by elevated air pollution.
- In 2016, 28 German cities and regions – including Munich, Cologne, Hamburg and Berlin – violated the statutory nitrogen oxide limit values.
- In 2015, 57% of air measurement stations in towns and near traffic registered values that exceeded the annual limit values by an average of 40 µg / m<sup>3</sup>.
- For that reason, lawmakers are currently discussing the introduction of a so-called “Blaue Umweltplakette” (blue environment sticker) for vehicles that comply with the Euro 6 nitrogen oxide emission limit values.
- According to the ADAC, the introduction of that blue badge could cause some 13 million diesel car owners to be affected by a potential driving prohibition.

## NO<sub>2</sub>-POLLUTION IN GERMANY



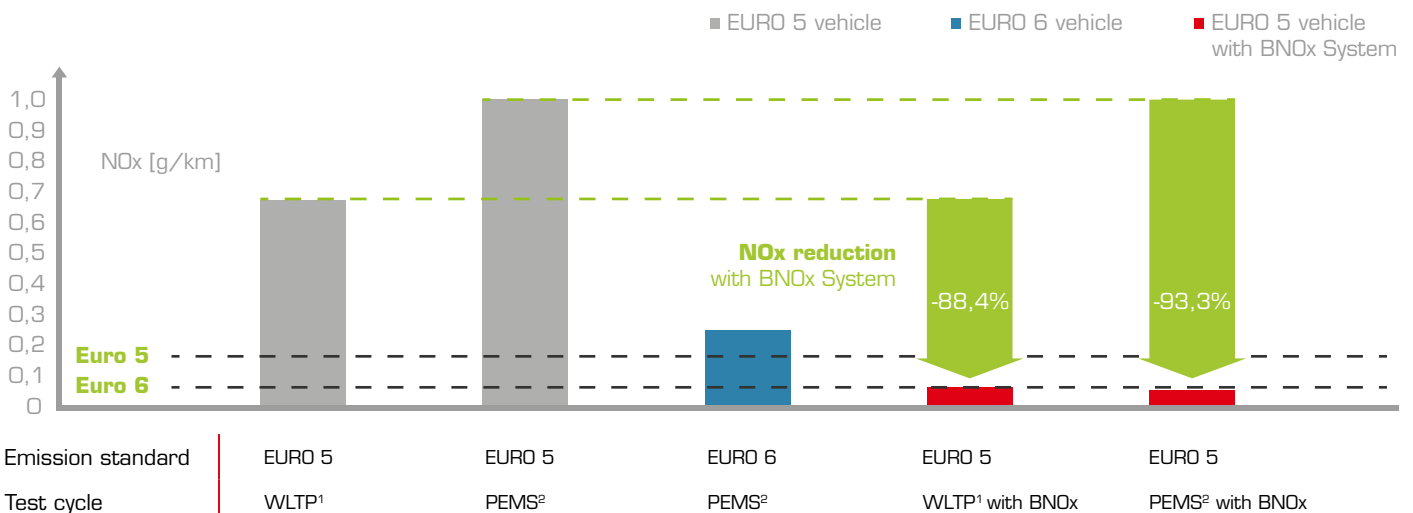
## BNOx TEST CAR

UPGRADED WITH THE BNOx SYSTEM

- Under real conditions (Real Drive Emissions), the Euro 5 Passat (1.6 TDI) with the BNOx system generates better exhaust gas values than nearly all Euro 6 vehicles.
- In 13 RDE test runs with the Passat, the BNOx reduced nitrogen oxides by an average of 93.3%.
- This made it possible to lower emissions from Euro 5 level to Euro 6 level (RDE).
- Under real conditions, the BNOx retrofit even enabled the Euro 5 engine of the Passat to achieve better emission values than the series production Euro 6 engine.



## VW PASSAT NO<sub>x</sub> EMISSIONS WITHOUT AND WITH BNOx SYSTEM



<sup>1</sup> WLTP, Worldwide Harmonized Light-Duty Vehicles Test Procedure <sup>2</sup> PEMS, Portable Emissions Measurement System