



Advanced Braking Technology Ltd

MEDIA/ASX RELEASE

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SIBS Technology Cited in UK Government Report for Reducing Particle Emissions

Perth-headquartered brake system developer and manufacturer, Advanced Braking Technology (“ABT”) (ASX code: ABV) today released details of a UK Government environmental study identifying technologies that represented the “most promising abatement measures for the most polluting sectors”.

In the report, ABT’s Sealed Integrated Braking System (SIBS) enclosed wet brake technology was **specifically identified as the enabling technology** to achieve reductions in particulate matter caused by vehicle brake dust emissions.

The potential reduction of fine particle emissions less than 2.5 micrometers in size (PM_{2.5}) was based on assumed penetration rates quantified in the study. Under the “business as usual” assumptions, it was estimated that 2.2 kilotonnes of PM_{2.5} particles would be emitted from vehicle brakes in the UK in 2020. With a gradual introduction of SIBS into the vehicle fleet, it was estimated that by 2020 there could be a 0.4 kilotonne, or **18% reduction in PM_{2.5} emissions** from vehicles in the fleet in the UK. This level would be achieved with only partial penetration, so further reductions could be achieved with greater levels of adoption.

CEO of ABT, Ken Johnsen, said the report’s findings confirmed one of the key value propositions of SIBS brakes long promoted by ABT.

“We have known and argued for some time that the SIBS brakes have a direct and immediate benefit in being able to eliminate brake dust emissions in vehicles using the technology,” Mr Johnsen said.

“We also believe that in the very near future, the desire for a total elimination of fine particle emission from brakes will become an important consideration in the wider adoption of ABT’s technology. The recognition of this as one of the key intrinsic benefits of SIBS in regulatory circles bodes well for the long term prospects of ABT.

“The eventual uptake of, for example, the garbage truck brake currently under development and the prospect of other applications like buses and in the longer term even passenger cars, signals great potential for this simple yet ground-breaking technology to play a key role in yet to be regulated emissions source that is raising concerns in regard to human health issues,” added Mr Johnsen.

UK Government Study

The 366-page study, titled *Multi Pollutant Data Base Measures*, was commissioned by the UK Department for Environment, Food and Rural Affairs (DEFRA) and conducted by UK-based environmental consultants Entec UK Limited. The study forms part of the United Nations Economic Commission for Europe’s (UNECE) review of the Gothenburg Protocols, which is expected to include in the coming years the introduction of an emissions ceiling for PM_{2.5} by 2020.

The report featured studies which looked at the impact of key air pollutants from all major sectors and investigated the various measures that could mitigate the problem.

Pollution from road transport was one sector investigated and included a thorough review of measures designed to achieve lower emission levels by 2020. These included tighter exhaust emission standards, increased penetration of fuel cell and hybrid vehicles, but also included the gradual replacement of conventional dry brakes with sealed wet brakes in cars, light goods vehicles and heavy duty vehicles.

The methodology employed in the study included a summary of potential beyond-business-as-usual (BAU) measures for the highest emitting sectors and associated costs and emission reductions (including multi-pollutant impacts).

Multi Pollutant Data Base Measures can be found on the DEFRA website at www.defra.gov.uk/environment/quality/air/airquality/publications/airqualclimatechange/documents/measures-database.pdf

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Background Information – Advanced Braking Technology Ltd (ASX: ABV)

Perth-based Advanced Braking Technology Ltd (ASX: ABV) is dedicated to innovative braking systems. The Company's key asset is the Sealed Integrated Braking System (SIBS™), a comprehensively patented Australian invention.

SIBS™ is a fully enclosed, single rotor, high speed wet brake. The brake rotor runs in a bath of oil that serves to cool the brake and minimize wear at the braking interface. An innovative fail safe feature is incorporated into the rear axle brake. As a result, the brakes are virtually wear and maintenance-free and may outlast the vehicles they are fitted to, unlike conventional drum and disc brakes. SIBS™ brakes deliver unparalleled safety, improved productivity and lower operating costs, and are engineered to survive the world's harshest conditions.

The proven technology is also environmentally friendly, eliminating brake dust emissions and noise and squealing, and provides a wide-range of benefits for on-road, off-road and industrial applications in terms of safety, reliability, performance and adaptability.

Based in Perth, Western Australia, Advanced Braking has a manufacturing plant in Thailand, worldwide patents on its technology and an extensive reseller network.