

Sustainable Bus Award 2019: the prize delivered to Iveco, Mercedes and Volvo

- Sustainable Bus Award 2019 has been delivered today at IAA Hannover
- Iveco Crealis 18m In-Motion-Charging wins the prize in URBAN category, Mercedes-Benz Citaro Ü Hybrid takes the INTERCITY award, Volvo 9900 is the king of COACH field

September 19th 2018



Today, during the New Mobility Housewarming event at **IAA Commercial Vehicles** (Hannover), the Sustainable Bus Award has been delivered to the representatives of Iveco, Mercedes-Benz and Volvo, winners of the **3rd edition** of the only European award focused on the sustainability of buses and coaches. IAA Commercial Vehicles takes place in Hannover every two years, and is the world's leading trade show for transport, logistics and mobility.

The jury of Sustainable Bus Award represents **seven European countries**. The network, indeed, consists of Mobilités Magazine (France), Busfahrt (Germany), Autobus (Italy), OV-Magazine (Netherlands), InfoBus (Poland), Infotrucker (Romania), Carril Bus (Spain). The jurors choose the winner vehicles after three evaluating steps. First, each juror submitted a list of candidates. All the candidates passed through a first numerical evaluation. Twelve vehicles (4 for each category) were shortlisted as finalists. Also manufacturers were asked to fill detailed documentation with information about the vehicles. Finally, each juror provided a detailed evaluation to each vehicle, considering 53 parameters split in the following groups: Engine, Transmission, Safety, Comfort, Sustainability.

Below, the motivations of the jury.

Sustainable Bus Award 2019 URBAN: Iveco Crealis 18 m In-Motion-Charging

'In Motion Charging' (IMC) technical solution turns trolleybus into a real alternative to battery electric bus. Thanks to IMC, the vehicle can run in full electric mode where there is no aerial infrastructure. Freed from the the permanent constraint (technological and infrastructural) of the two-wire aerial line, trolleybus releases unexpected potentials. Iveco Bus is one of the main actors in the trolleybus panorama, as demonstrated by the more than 800 trolleybus units sold to date. The company unveiled at Buworld 2017 its new trolleybus range, to which the awarded vehicle belongs. Crealis 18 m In-Motion-Charging, powered by Skoda Electric, combines the electric overhead lines with a small on-board battery. This reduces complexity and costs, and no time is lost for recharging.

Sustainable Bus Award 2019 INTERCITY: Mercedes-Benz Citaro Ü Hybrid

The Citaro Ü Hybrid guarantees a 8.5 percent cut in fuel consumption with a reasonable extra-cost. Mild hybrids represent a key element in the transition between diesel buses and alternative drive vehicles. A compact electric motor is fitted between the internal combustion engine (7.7 litres, 260 kW) and the automatic transmission (customers can opt for ZF or Voith). The electric motor, the same model adopted as alternator/starter on the new passenger car Class S, delivers 14 kW and 220 Nm torque. During braking,

it acts as a generator and stores energy in two modules, with each module containing 16 doublelayer capacitors (supercaps). This is where one of the main Citaro Hybrid's new features comes in: it prides itself to be the first commercial vehicle powered not by a high voltage network but by a separate 48 volt low voltage network, similar to that of Mercedes hybrid passenger cars.

Sustainable Bus Award 2019 COACH: Volvo 9900

Sustainable Bus Award is based on a cross-cutting idea of sustainability, intended as the ability to establish a positive image of the vehicle to the eyes of the general public, and so increasing the appeal of collective passenger transport. A necessary step to achieve a more sustainable environment by reducing the use of private passenger cars, limiting pollution and traffic congestion. To this end, beyond some environment-related parameters (recyclability of components and general environmental commitment of the manufacturer), several aspects can come into play, such as safety, comfort, noise. New Volvo 9900 is the outcome of a whole new project. Comfort level has been highly increased, Cx has been reduced, Volvo Dynamic Steering remains a key feature for its positive impact on driver's physical conditions, enhancing passengers' safety. The transparent 'window' on the bottom of the front door allows a better side visibility. Volvo Zone Management ensures that the coach comply with restrictions and specific requirements depending on geographical position. The driver is updated when he or she is in zero-emission or low-speed zones, and can adjust driving mode and take action accordingly.

Sustainable Bus Award

Sustainable Bus Award is the first and only European award that acknowledges sustainability in the field of buses. It was launched by AUTOBUS magazine in 2016. Last edition has been delivered at Busworld Europe in 2017, during Award Night. The jury represents seven European countries: France, Germany, Italy, Netherlands, Poland, Romania, Spain.

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