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3Emotion welcomes Pau (FR) as a new demonstration site.

- **Pau will put in service France's first fuel cell electric buses : 8 Van Hool Exqui.City's (the so-called tram buses) powered by hydrogen**
- **Delivery of the buses scheduled second half of 2019**

It is now widely acknowledged that the future of public transport buses will have to be zero-emission. Fuel cell electric buses are one of the technologies that meet that requirement. FCEB's are a type of electric buses, using fuel cells and batteries to power the electric motor. Instead of storing all energy in large and heavy batteries, fuel cells use hydrogen and oxygen to generate electricity, producing only heat and water as a by-product. This makes that no harmful emissions are produced, significantly less noise is present and the buses have the same flexibility as diesel buses (range = 300 km, refuelling time = 10 minutes).

Pau will put in service 8 Van Hool Exqui.City's, the so-called tram bus, powered by hydrogen. The use of fuel cell electric buses is a prime for France and it is even a world premiere for a full BRT (Bus Rapid Transit) system with 18 meter articulated tram buses. The delivery of the buses is scheduled for the second half of 2019.

Companies involved in Pau are Van Hool, ITM power and Engie. Bus manufacturer Van Hool (BE) supplies the buses. ITM Power will build the production and distribution unit for green hydrogen by electrolysis. ENGIE and its subsidiary GNVert will contribute their know-how to the operation of the station.

3 of the articulated buses and the refuelling station based on electrolysis will be realized within the context of the 3Emotion project.*

3Emotion is the 4th large scale bus project, co-financed by the Fuel Cell and Hydrogen Joint Undertaking and aims to bridge the gap between fuel cell bus demonstration and larger scale deployment.

The project contains the deployment of 21 new and the further use of 8 existing fuel cell buses with the required refuelling infrastructure. These buses will be deployed in 6 sites and operated by different public transport operators located all over Europe: apart from Pau the buses will be demonstrated in London (UK), Versailles (FR), Aalborg (DK), Rotterdam (NL) and Rome (IT).

François Bayrou, president of Pau Béarn Pyrénées Urban Community and Mayor of Pau declared 'The Conurbation of Pau Béarn Pyrenees has chosen Fuel Cell hydrogen electric buses as a zero emission solution enabling the transformation of a daily transport experience into a human and environmentally friendly project.'



‘With the choice of an innovating power train solution, the SMTU paves the road to a true zero emission public transport.’ sais Nicolas Patriarche, president of Urban Transportation Syndicat (Pau transit authority).

Flip Bamelis, coordinator of the 3Emotion project, is really pleased with Pau's accession to the 3Emotion project: ‘Pau is an ideal location to show that - also in hot climates -fuel cell buses are a reliable zero-emission alternative to diesel buses.’

Also Bart Biebuyck, Executive Director of the European Fuel Cells and Hydrogen Joint Undertaking (FCH-JU) is pleased: "The release of these 8 new hydrogen buses demonstrates above all the common efforts made to switch to an innovative, clean and comfortable transport. The FCH-JU is pleased to see that its support, through its 3EMOTION and JIVE 2 projects, enables the city of Pau to experience its first deployment of hydrogen buses and enabling it to contribute effectively to the objectives Environmental standards set by the European Union ".

**the other buses will be realized within the context of the Jive 2 project, also co financed by the FCH-JU*

For more info, please contact Flip Bamelis, project coordinator of 3Emotion:
flip.bamelis@vanhool.be +32 476 55 55 09