Press Release

On June 15th 2017 Quantum Electric Ltd has signed business cooperation agreement with Z-Park Scientific Innovation High-tech Transfer Association & Energy Conservation and Environmental Protection Committee.

The objective of this cooperation agreement is to commercialize Quantum's new multispeed transmission technology in association with Chinese EV industry. “This cooperation agreement is our bridgehead to China and Asian market and its significance is huge for the company’s future”, says CEO Jari Aaltonen.

About Quantum Electric

Quantum Electric has developed a new powertrain technology that is based on modular electric motor innovation where the electric gearbox is created right in the motor itself. Electric vehicle industry is still using single speed transmission that has several drawbacks related to energy efficiency, performance, economy and fun. An electric motor has a torque curve, a power curve, and an efficiency curve that makes it a complex system for control when single speed transmission is used. Engineers in EV industry have had a hard time finding a compromise for the perfect ratio on one-speed EVs, and the results are always flawed. Only an electric gearbox would solve this problem and also make these cars more fun to drive. Quantum's electric gearbox will help keep the electric motor running at maximum efficiency at all times.

With a 4-5 multispeed transmission, an electric motor would not have to work as hard to turn the wheels. By using QE Drive and electric gear technology the same vehicle should see a range improvement of up to 50% in urban traffic. This improvement will be achieved if the whole powertrain is digitally controlled and optimized and all the braking energy is collected and stored into car battery. Quantum's new digital range extender technology allows more efficient regenerative braking efficiency even at relatively low speeds in urban driving.

This means that car manufacturers can reduce battery capacity up to 30% and EV can achieve still good driving range per charge. EV manufacturers can use lighter electric motors and batteries and this will have a huge impact for the EV selling price making it affordable investment for Chinese middle class consumers says Aaltonen.
About Z-Park ECEPC

Initiated and operated by professional internet media CHINAENVIRONMENT.COM, Z-Park Scientific Innovation High-tech Transfer Association Energy Conservation & Environmental Protection Committee (also known as Z-Park ECEPC for short) is a civil organization which is comprised by institutions, experts, professors, entrepreneurs and elites from environmental protection industry. It is subordinated to Z-Park Scientific Innovation High-tech Transfer Association (also known as SIHTA) as its special committee on energy conservation and environmental protection field.

Depended on SIHTA's professional support, Z-Park ECEPC makes a great contribution to acceleration of ecological city construction, green investment, science and technology innovation. It is a national trans-regional cross-sectoral and cross-ownership nonprofit organization, which provides specific services for energy conservation and environmental protection industry.

More Information

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