

P2 Hybrid Electrification System Cost Reduction Potential

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A. Transmission System and Cost Summary Overview 3 A.1 Original Transmission Hardware Overview 3 A.2 Original P2 System 4 A.3 Comparison of the Original P2 and the Modified P2 Transmissions 6 A.3.1 Case 6 A.3.2 Launch Clutch 7 A.3.3 Oil Pump and Filter 9 A.3.4 Motor 10 P2 Hybrid Transmission 10 A.3.5 Transmission Cooling System 12

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Fusion HEV, a PS hybrid (EPA 2011, 12). In their analysis, the Agencies used the power of the machine to scale cost data obtained from the Fusion to other vehicle classes as well as to the P2 hybrid system (EPA 2011, 125). Use of power to scale motor cost is incorrect. Materials costs scale with motor volume, and volume scales with torque, not ...

[4 Electrified Powertrains + Cost, Effectiveness, and ...](#)

In Europe, the production cost of an automatic transmission hybrid system and diesel already have reached parity, says Toyota's Satoshi Ogiso, and the implications could be profound.

[At Long Last, Hybrid Gains Cost Advantage Over Diesel, Top ...](#)

FEV P2 Hybrid Electrification System Cost Reduction Potential Constructed on Original Cost Assessment 2014. Other . Peter Mock Assembling vehicle technology cost data for the European market 2012. ICCT staff blog post . GHG reduction potential and costs of light-duty vehicle technologies 2012.

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P2 Hybrid Electrification System Cost of what was going to be needed to generate an accurate cost model for a P2 system. The P2 transmission model or individual OEM design have little consequence in the study: only the material, component and technology cost. This comparison has homed in on the technology available today

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BAE Systems applies energy management and engine controls technology expertise to enable the next generation of propulsion systems. ENDICOTT, New York – Mounted to the side of a jet engine is a set of high-tech electronics roughly the size of a personal computer. These smart, digital controls pack enough punch to optimize engine performance in aircraft [...]

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To prevent the use of excess refrigerant, these hybrid systems replace refrigerant with water between the outside unit and the indoor units—all while allowing simultaneous heating and cooling to different parts of a building. Heat exchanger advancements: Compact, low-cost heat exchangers are being 3D-printed with polymers. This allows for ...

[New York Backs Major Building Decarbonization Initiative ...](#)

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On the other side P2, P3 or P4 configurations disconnects the electric machine from the engine through a clutch. Belt Starter Generator Architecture (P0) Also know as BiSG from Belt integrated Starter Generator, this mild hybrid topology is the most cost effective due to the limited impact of the 48V system on the existing vehicle architecture.

[Mild Hybrid Electric Vehicle \(MHEV\) – architectures – ...](#)

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New York Governor Andrew M. Cuomo announced a package of major clean transportation initiatives, including a “Make Ready” order approved by the New York State Public Service Commission (PSC) to advance New York’s commitment to accelerate its transition to cleaner mobility.. The EV Make-Ready Program will be funded by investor-owned utilities in New York State.

[New York state rolls out EV Make-Ready Program – Green Car ...](#)

P2 Hybrid Electrification System Cost Reduction Potential Also know as BiSG from Belt integrated Starter Generator, this mild hybrid topology is the most cost effective due to the limited impact of the 48V system on the existing vehicle architecture.

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transmissions towards electrification.” The P2-P3 dedicated hybrid transmission is modular, based on a two-shaft single-clutch concept. Thanks to a link between two main gears of the gearbox and the direct gearing between the electric machine and linked gear system, free-mounted on the primary shaft, there is a very efficient electric path of ...

[New modular front-wheel drive hybrid transmission at CH ...](#)

Less integration effort, weight & cost, compared to HV systems (safety, battery) 48V systems have the potential to fill the gap between state-of-the-art 12V Start/Stop systems and high voltage hybrid powertrains. Source: Bosch on „48V Power Supply“ Conference 2013 Production volume

[48V Mild Hybrid Systems – AVL](#)

System-wide electrification plan. WSF is developing a system-wide electrification plan that expands on the 2040 Long Range Plan to evaluate alternatives and propose an efficient strategy for using hybrid electric vessels throughout the system. The plan will be delivered to the legislature in September 2020.

[Ferry system electrification + WSDOT](#)

New Program Supports State's Transportation Electrification and Clean Energy Goals. ... a \$70 million plug-in hybrid and electric car rebate and outreach initiative to encourage the growth of clean and non-polluting car use in New York, promote the reduction of carbon emissions in the transportation sector and help reduce vehicle prices for ...

[Governor Cuomo Announces “Make-Ready” Program for Electric ...](#)

To illustrate this point, the consumptions of a power-split and a serial parallel transmission are shown as a comparison to the P2 hybrid. The consumption of a P2 drive based on electrification of a double clutch transmission in a four-cylinder, C segment vehicle is improved by optimizing the operating strategy of the individual drives.

[P2 HV drives + Schaeffler Symposium 2018](#)

Brake Power Availability Led Optimisation of P0 versus P2 48V Hybrid Powertrain Architectures 2020-01-0439 Through improving the 48V hybrid vehicle archetype, governmental emission targets could be more easily met without incurring the high costs associated with increasing levels of electrification.