

Press Release

Rovio, 19.12.2008

"LAMPO": where ultimate performances meet Guinness-efficiency!

The stylish LAMPO Showcar that Protoscar SA will unveil at the next Geneva Motorshow on March 2nd 2009 (e'mobile stand 5141, hall 5) is a full size sport cabriolet powered by two-hundred-sixty-eight (yes, 268 HP!) - totally clean and silent - "horses"!

Two electric BRUSA motors (one rear - and one front- mounted) are optimized for maximizing acceleration and regenerative braking respectively, developing a constant torque of over 440 Nm from 0 to 5'000 RPM!

Thanks to a lightweight Lithium-Ion battery pack with a capacity of 35kWh, a range of over 200km is possible between recharges: those can be done using every standard EU plug. The on-board charger also recognizes automatically if an accelerated 7kW "booster" charge can be supplied by the electric network. A remote 16kWp photovoltaic plant (using amorphous silicon solar cells) produces 18'000 kWh/year, which results in enough clean energy for covering over 50'000 km/year saving 12 tons of CO₂ at a lower km-price than gasoline and diesel.

The extremely high energy efficiency of the whole system allows to transform over 80% of each kWh produced by the photovoltaic plant into driven km: 3 times better (see: www.optiresource.org) than the best internal combustion cars can do with diesel fuel!

Never before such ultimate zero-emission performances have been demonstrated at such excellent level of overall Well-to-Wheel efficiency - and on top of it without any drop of oil!

Who is Protoscar?

Protoscar SA (www.protoscar.com) is a design company specialized in CleanCars and based in Rovio (Ticino, Switzerland). At present it employs 14 specialists.

We act like a "Minergie-architect", but apply the efficiency-concepts to cars, mainly by increasing their electrification.

Our CleanCar experience started in 1985 with the design and realization of solar&electric racing cars using lightweight composite structures and bodystyles optimized by intensive wind-tunnel testing. During the nineties our experience was put into service of the VEL1 Project in Mendrisio (Europe's biggest EV demo project so far, carried out in Mendrisio - approximately 7'500 inhabitants - where over 400 electric vehicles, equivalent to nearly 8% of market share, were introduced, mostly to private users).

Our unique experience and holistic approach allow us not only to develop forward looking strategies and outstanding vehicle concepts, but also to support the market introduction of CleanCars and the communication activity of these technologies.

We are proud to include worldwide companies like Daimler AG, General Motors, Rinspeed-Esoro and Nissan among our faithful clients.

Protoscar's objectives and LAMPO's goal

The main goal is to develop a fully functional prototype that can convince passive and even skeptic decision makers that modern electric vehicles allow the greatest driving pleasure, and showing that battery driven vehicles represent the most suitable short-term solution. This conviction simply ought to be generated by the EXPERIENCE OF DRIVING the prototype - the first time in May 2009 in Norway, where LAMPO will participate in the EVS-24 rally organized between Oslo and Stavanger.

Through LAMPO, Protoscar and its partners aim to be able to demonstrate the innovative technology which includes absolute innovations like „intelligent charging“ or interactive GPS-based „range estimator“ - and discuss potential applications together with car manufacturers, in order to implement these solutions into their plans for future CleanCars.

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