



AURA AERO SELECTS QARNOT TO ACCELERATE THE DESIGN OF ITS DECARBONIZED AIRCRAFT

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AURA AERO has selected Qarnot, a French provider of sovereign, low-carbon HPC cloud services, to support its growing high-performance computing needs. This solution will provide AURA AERO’s teams with more powerful computing resources for their design, simulation and program optimization work. Qarnot’s infrastructure, located in Europe, addresses the challenges of data security, sovereignty, and reduction of the environmental footprint. By utilizing the heat generated by its servers, Qarnot reduces the carbon footprint of computations by up to 80%.

Paul Benoit, president and co-founder of Qarnot commented: “This partnership demonstrates that it is possible to build cutting-edge, sovereign, and competitive technological solutions in Europe that support the ecological transition and industrial competitiveness.”

Marc Germain, Chief Digital Officer at AURA AERO stated: “Choosing Qarnot as our HPC cloud provider strengthens our computing capabilities while remaining consistent with our commitments to sovereignty and decarbonization. This partnership allows us to move forward more quickly in our design work, with a high-performance, secure solution that has a lower environmental impact.”

Clément Pellegrini, co-founder and CTO of Qarnot said: “Our role is to enable engineers to focus on their core business. By providing a high-performance, tailored HPC solution, we help AURA AERO teams fully leverage their simulations, with greater efficiency and fluidity.”

Rémi Magnon, CFD Aerodynamics Engineer at AURA AERO explained: “Designing the aerodynamics for our aircraft programs requires a very large number of numerical simulations. Thanks to Qarnot, we can more easily integrate computing power into our automated processes, increase the number of design iterations, and stay focused on aircraft design without being held back by infrastructure management.”



AURA AERO is developing two main programs: INTEGRAL, a family of two-seater aircraft designed for training, leisure, and aerobatics, available in both piston and electric versions, and ERA, a 19-seat hybrid-electric regional aircraft intended to reduce the carbon footprint of regional air travel. The development of these aircraft requires many numerical simulations, particularly for aerodynamics, performance, and the validation of design choices. Using Qarnot’s HPC cloud will enable AURA AERO’s team to perform more iterations, faster, without having to directly manage the computing infrastructure.

Beyond computing power, Qarnot provides operational support to AURA AERO’s teams. This support facilitates the management of complex CFD simulations, the parallelization of calculations, and the allocation of resources to meet project needs.

This partnership enables AURA AERO to expand its simulation capabilities, accelerate its development cycles, and continue designing aircraft that are more carbon-efficient.

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