Asetek Announces Global OEM Purchase Agreement with Penguin Computing

Largest Server Installation to Date Validates Asetek Technology

October 22, 2015 – Asetek® announced today an OEM purchase agreement with Penguin Computing (Penguin), the leader in Open Compute-based High Performance Computing (HPC) solutions. As a part of the agreement, Penguin will incorporate Asetek's RackCDU D2C™ liquid cooling technology into its Tundra™ Extreme Scale (ES) HPC server product line. RackCDU™ direct-to-chip hot water liquid cooling enhances Penguin's ability to provide HPC solutions with extreme energy efficiency and higher rack cluster densities. The agreement has already resulted in an order by Penguin described in a previously anonymous announcement.

Along with the announced agreement, Penguin and the National Nuclear Security Administration's (NNSA) Lawrence Livermore National Laboratory announced the Asetek enabled Tundra system had been selected for the NNSA's tri-laboratory Commodity Technology Systems programs (CTS-1) at Los Alamos, Sandia and Lawrence Livermore national laboratories. The resulting deployment of these supercomputing clusters will be one of the world's largest Open Compute-based installations. The order and OEM relationship is anticipated to result in between $1.0M and $1.5M of revenue within the first 12 months. Production to fulfill the order is expected to start within the next few months.

"As we add another OEM to our growing portfolio of RackCDU technology partners, our strategy of liquid cooling data centers is further validated," said André Sloth Eriksen, Founder and CEO of Asetek. "The CTS-1 installation is a major win for Penguin and is Asetek's largest server installation to date, confirming the momentum of RackCDU in the marketplace. We expect further sales from this partnership to make clear that Asetek liquid cooling is the proven solution for solving today's data center constraints."

"Compute density, power and cooling efficiency, and associated performance gains are critical elements of the solutions we deliver to HPC customers," said Dan Dowling, Vice President of Engineering Services, Penguin Computing. "Asetek has helped us develop a solution that meets tomorrow's energy efficiency and density requirements."

RackCDU is Asetek's innovative hot water, direct-to-chip, data center liquid cooling technology, which removes heat from CPUs, GPUs, memory modules and other hot spots within servers, using an all-liquid path and rejecting the heat into ambient outdoor air without chilling. As validated by Lawrence Berkeley National Labs, RackCDU enables cooling savings in excess of 50%, density increases of 2.5x to 5.0x, and recovery of all the server energy removed by RackCDU for reuse in facility heating and cooling.

About Asetek

Asetek is the world leading provider of energy efficient liquid cooling systems for data centers, servers, workstations, gaming and high performance PCs. Its products are used for

reducing power and greenhouse emissions, lowering acoustic noise, and achieving maximum performance by leading OEMs and channel partners around the globe. Asetek's products are based upon its patented all-in-one liquid cooling technology with more than 2 million liquid cooling units deployed in the field. Founded in 2000, Asetek is headquartered in Denmark with offices in California, China and Taiwan. For more information, visit http://www.asetek.com

About Penguin

Penguin Computing is one of the largest private suppliers of enterprise and high performance computing solutions in North America and has built and operates the leading specialized public HPC cloud service Penguin Computing on Demand (POD). Penguin Computing pioneers the design, engineering, integration and delivering of solutions that are based on open architectures and comprise non-proprietary components from a variety of vendors. Penguin Computing is also one of only five authorized Open Compute Project (OCP) solution providers leveraging this Facebook-led initiative to bring the most efficient open data center solutions to a broader market, and has announced the Tundra product line which applies the benefits of OCP to high performance computing. Penguin Computing has systems installed with over 2,500 customers in 40 countries across eight major vertical markets. Visit http://www.penguincomputing.com to learn more about the company, and follow @PenguinHPC on Twitter.

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