



Contact:
Jon Karlung, CEO,
Cellular: +46 (0)76 1110160 (GMT +2)
jon.karlung@bahnhof.net

Bahnhof reveals PUE below 1.0 for new Data Centers

Stockholm, Sweden, March 18, 2013 – Swedish ISP Bahnhof, well known for its spectacular data centers creates a paradigm shift in sustainable computing with its next project. Unheard of PUE values (Power Usage Effectiveness) were revealed on Monday afternoon in Stockholm. Plans were presented on web site <http://www.bahnhof.se/ftg/bigdata>.

"Free cooling is hot in the industry. Facebook chose the far north of Sweden and Google a remote Baltic Seashore in Finland. They use free resources like cold air and water for cooling", explains Jon Karlung, CEO of Bahnhof.

Google has reached a PUE of 1.12, meaning that merely 12 % extra energy is wasted beyond what is needed to power their servers.

"We did not have to innovate around the laws of thermodynamics to go far below PUE 1.0. Instead we created DCDH", says Karlung.

Advantage Stockholm – Sweden with its long cold season is a world leader in District Heating technology. CPH plants (Combined Power and Heating) are used to simultaneously generate electricity and heat. The heat is distributed in networks of hot water pipelines to offices and residences.

Bahnhof has teamed up with Fortum, the energy corporation, to use DCDH, Data Center for District Heating. Bahnhof will transfer and sell their excess heat to the District Heating system on commercial terms.

"We are now offering two specific locations to international contenders. Fortum lets us construct a data center on top of Europe's most powerful heat pumps for a direct transfer of heat into their system pushing our PUE down to 0.5. Why ventilate the energy out? And we don't have to lure technicians to an isolated shore at the Russian border", says Karlung.

The other location is an architectural landmark, a gasometer from 1893, intended to house five stories of servers inside its heavy red brick walls with PUE of 0.8.

Both locations can be plugged into the international Internet Exchange Point in Stockholm via 100 Gbps fiber connections.

Bahnhof was founded in 1994 and is Sweden's oldest independent ISP. Its spectacular data center in a cold-war defense bunker in central Stockholm, Pionen White Mountains, became widely known when Bahnhof hosted Wikileaks. It is also known for its modular data center in military grade steel, <http://mdcstockholm.com/>. Bahnhof is listed and publicly traded in Stockholm but controlled by two entrepreneurs, one of them CEO Jon Karlung. Bahnhof has been profitable every year since the start and its 100 employees sold internet services for 62 million USD in 2012.

