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**.NET Authors:** [Bob Gourley](#), [Jayaram Krishnaswamy](#), [Tim Arthur](#), [Elizabeth White](#), [Jason Bloomberg](#)

### News Feed Item

# Operating Data from Memsys Technology Installation Shows Energy Positive Desalination, with Net Energy Production from Generators

BY ACN NEWSWIRE

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Singapore, June 1, 2014 - (ACN Newswire) - Operating data from an installation of seawater desalination units that employ memsys' membrane distillation technology indicates a significant net gain in energy production from the diesel generators that power the system. memsys, a Singaporean-German company, pioneered the technology, which is based on vacuum multi-effect membrane distillation (V-MEMD), a highly efficient thermal process for thermal separations in a modular concept.

"I believe that memsys is the first company to create a symbiotic rather than parasitic relationship between diesel-powered electricity generation and desalination. I call this 'energy positive desalination'. It represents a breakthrough in the way we think about desalination and will have a very positive economic and environmental impact in locations throughout the world where the memsys desalination technology is coupled with similar diesel-powered electricity generators," said Florian Bollen, a Director of memsys.

"We have run the plant for more than three months now on the remote island of Gulhi on the Maldives, under 24/7 operations and with more than 99% uptime. It was a pleasant surprise to us when the numbers showed an increase of generator fuel efficiency of more than 10% while the desalination plant only consumes about

2% of the electrical output - giving this combination a positive result on power creation while desalinating water," Bollen added.

The memsys desalination process is driven primarily by the heat it harvests from the cooling of the generators and eliminates the need for parasitic loads like fans. In addition, the cooling through water is efficient even at high ambient temperatures, allowing the generator to run on high loads rather than spreading the load onto separate generators running less efficiently at lower loads. It also allows the operator to turn off the fans that usually blow air towards the cooling radiators of the generator. This gives the generators an efficiency boost that is much greater than the electrical consumption of the desalination plant, which is driven mostly by the heat gained from the cooling of the generator.

The net result is an overall reduction in fuel consumption for the same amount of power generation while at the same time desalinating water.

The Maldivian state electricity company STELCO stated, "This memsys innovation has huge implications for us. We are very pleasantly surprised by memsys' technology. At first, we expected a cheaper and more reliable way to desalinate water than traditional desalination technologies. Now we see the memsys system as an easy way to also slash our energy costs while producing clean water. Clean water and low energy costs are equally important priorities in the Maldives."

### Comments

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By Liz McMillan

*yourfanat wrote: I am using another tool for Oracle developers - dbForge Studio for Oracle. This IDE has lots of usefull features, among them: oracle designer, code competition and formatter, query builder, debugger, profiler, erxport/import, reports and many others. The latest version supports Oracle 12C. More information here.*

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### About memsys

Based in Germany and Singapore, memsys (<http://www.memsys.eu>) is a leading-edge developer of vacuum distillation technology for various applications. Its patent-protected thermal separation modules are used for wastewater treatment in the oil, gas and steel industries, brine concentration, low temperature distillation and low energy desalination or alcohol distillation. memsys' robust technology is based on vacuum-driven multi-effect membrane distillation (V-MEMD), a highly efficient thermal separation process in a compact, modular concept. These modules perform all steps of the membrane distillation process including a multi-effect energy recovery. memsys' technology can be operated using waste heat to produce

a high-quality distillate and effortlessly treats a variety of feed waters including wastewater feeds with high TDS content.

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#### Akamai

Day 2 Lunch Keynote | Application Delivery in the Cloud: Debunking Myths and Showcasing the Realities

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Day 3 Keynote | Navigating Storage in a Cloudy Environment

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There is little doubt that Big Data solutions will have an increasing role in the Enterprise IT mainstream over time. Get a jump on that rapidly evolving trend at Big Data Expo, which we are introducing in November at Cloud Expo New York.

"Cloud" has become synonymous with "computing" and "software" in two short years. Cloud Expo is the new PC Expo, Comdex, and InternetWorld of our decade. By 2012, more than 50,000 delegates per year will participate in Cloud Expo worldwide.

The cloud is certainly a compelling alternative to running all applications within a traditional corporate data center. But moving from theory into practice is where things get complicated, and this is where attending a top industry event like Cloud Expo comes in.

No one can take full advantage of cloud computing without first becoming familiar with the latest issues and trends, which is why the organizing principle of the 10th International Cloud Expo on June 10-12, 2014 - is to ensure - through an intensive three-day schedule of keynotes, general and breakout sessions, and our bustling Expo Floor - that attending delegates leave the Javits Center with abundant resources, ideas and examples they can apply immediately to leveraging the Cloud, helping them to maximize performance, minimize cost and improve the scalability of their Enterprise IT endeavors.

Delegates will leave Cloud Expo with dramatically increased understanding the entire scope of the entire cloud computing spectrum from storage to security.

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