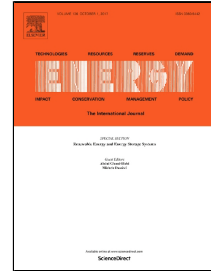


# Accepted Manuscript

Energy saving evaluation of a novel energy system based on spray cooling for supercomputer center

Hua Chen, Wen-long Cheng, Wei-wei Zhang, Yu-hang Peng, Li-jia Jiang



PII: S0360-5442(17)31608-0  
DOI: 10.1016/j.energy.2017.09.089  
Reference: EGY 11583  
To appear in: *Energy*  
Received Date: 16 December 2016  
Revised Date: 30 August 2017  
Accepted Date: 19 September 2017

Please cite this article as: Hua Chen, Wen-long Cheng, Wei-wei Zhang, Yu-hang Peng, Li-jia Jiang, Energy saving evaluation of a novel energy system based on spray cooling for supercomputer center, *Energy* (2017), doi: 10.1016/j.energy.2017.09.089

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights:**

- A novel energy system based on spray cooling for supercomputer center is proposed.
- The system integrates spray cooling with waste heat driven absorption chiller.
- Modeling of integrated energy system under different working conditions.
- Inlet temperature strongly affects cooling capacity and optimum temperature exists.
- The system can achieve energy saving of 49% and PUE within best practice scenario.

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات