



BROAD U.S.A. ISSUE

SUSTAINABLE GROWTH FORUM

Broad U.S.A. INC.

01/2015

Distributed Energy Sustainable Growth Forum

On January 13, 2015, Distributed Energy Sustainable Growth Forum was successfully held in Beijing, China, jointly organized by Broad Group, CHP Association and the China Low Carbon Alliance.

Sustainable Low-Carbon Economy Development of China

This forum aimed at exploring the road of sustainable low-carbon economy development of China through the foreign distributed energy policy development experience and analysis. It received an enthusiastic response.

Although natural gas distributed energy is facing a variety of problems, such as gas prices, tariff issues and capital limitations, the original intention of the meeting was to shine a light on distributed energy, to make people and the government more aware and supportive of such projects, while launching more power: including the power of the customers and experts together to promote distributed energy, for our country and for the entire planet to contribute to the blue sky.

"As I look around, young people, you will become experts in this industry and our future."

- Joe Allen, Caterpillar Inc.

分布式能源可持续发展会议 Distributed Energy Sustainable Growth Conference

主办单位
Host

北京经济技术开发区
Beijing Economic-Technological Development Area

协办单位
Organizers

BROAD ENERGY SERVICE
博大能源服务有限公司

博大美国公司
Broad USA Inc.

支持单位
Supports

北京市海淀区人民政府
Haidian District People's
Government of Beijing Municipality

北京市丰台区人民政府
Fengtai District People's
Government of Beijing Municipality

中关村科技园区海淀园管理委员会
Administrative Committee of
the Zhongguancun Haidian Science Park

中关村科技园区丰台园管理委员会
Administrative Committee of
the Zhongguancun Fengtai Science Park

北京市海淀区人民对外友好协会
Haidian District People's Association for
Friendship with Foreign Countries of Beijing

中国节能协会节能服务产业委员会
ESCO Committee of
China Energy Conservation Association

Sponsored By

- Broad U.S.A. Inc.
- China Low-Carbon Alliance
- Broad Energy Service
- CHP Association

Distributed Energy Sustainable Growth Forum, Beijing, China



Government Leaders and Industry Experts

Keynote Speakers

From left to right

Director of Energy Policy, Caterpillar and Solar Turbines

Mr. Joe Allen

General Manager of Developing Market , Solar Turbines

Mr. Linjun Li

Technical Director, Institute for Industrial Productivity

Mr. Bruce Hedman

Exergy Partners Corp.

Mr. Richard Sweetser

Vice President , Broad Group

Mr. Xiaodong Zhang

Senior Advisor, Department of Energy

Ms. Katrina Pielli,

General Manager, Broad U.S.A. Inc.

Mr. Shuguang Wang

Senior Project Manager of Green Buildings, The World Bank (IFC)

Mr. William Beloe

Efficiency & Environmental Drivers for CHP

In the meeting, Katrina Pielli, the senior advisor for International Energy Efficiency and Clean Energy Technologies, delivered a key speech on "Efficiency & Environmental Drivers for CHP in the United States" to illustrate how government supports CHP development in the U.S.

During the meeting, guests repeatedly referred to the China-US joint statement to respond to climate change, the President Xi Jinping and President Obama announced their goal of dealing with the pro- change operation after 2020, marking China's response to climate change will enter a new era.



Katrina Pielli, Senior Advisor, US Department of Energy

Broad U.S.A. Inc.

BROAD U.S.A. Inc. is a privately held company head-quarter in New Jersey, supporting the sales and service to our customers in North America. Relying on our innovative and environmental-friendly technology, BROAD U.S.A commits itself to optimize energy efficiency for clients in Commercial, Civil and Industrial markets.

Broad U.S.A. is committed to the Absorption Marketplace – It is our primary business since we started in 1997.



BROAD CHP APPLICATION IN THE U.S.

Shuguang Wang, the General Manager of Broad USA, shared the Broad absorption chiller technology and a typical co-gen case on 'Whole Foods in Brooklyn NYC'. He mentioned the models that can be adopted and adapted into the Chinese market so as to best support and encourage industry leaders to make the switch to sustainable distributed energy models. By providing financial incentives, building and factory owners may get the push that they need to pursue these types of projects. Not only does the transition require the support of the government, it also relies on owners to commit to these new technologies, not just for the sake of the bottom line but for environmental protection as well. CHP projects are not limited to industries directly related to the energy industry or industries that inherently need large sources of power and cooling. The case on the Modern Grocery Store in Brooklyn showcases the flexibility of CHP systems in a variety of applications. The benefits of implementing a CHP system can be so wholly felt that it is not simply a project for large buildings and areas, but can be applied to locally operated stores.

Project Summary

150 KW of CCHP

Store can operate in a Black Out /
"Black Start"

BROAD 168 tons of Direct fired
chiller /heater w/dhw

100 & 168 tons of Chiller /
Heaters/DHW

CO2 low temperature refrigeration

Sub cooling low temp via CCHP

LEED - Platinum or Gold pending

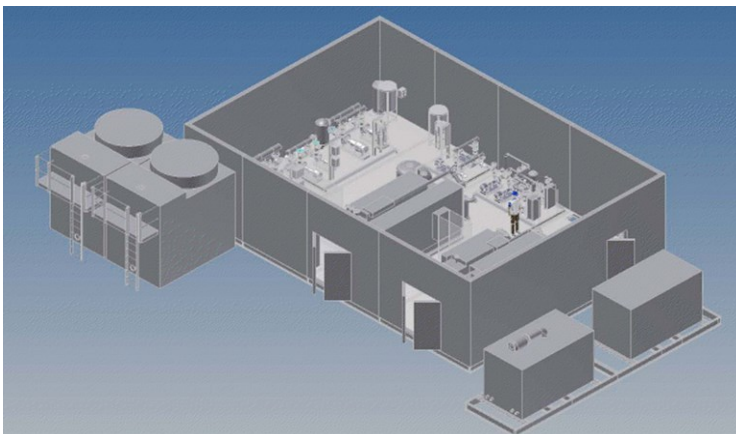


Whole Foods Market Store in Brooklyn

SYSTEM DETAILS:

Whole Foods Market Third & 3rd features a 157 kilowatt (kW) CHP system that provides simultaneous heating and chilled water year-round through cogeneration of heat and electricity, and is designed to keep the store functioning in the event of a utility grid failure. The system captures the electricity production's exhaust heat that would otherwise be discarded and uses it to operate

providing free cooling. Captured waste heat is also used to provide free heating for occupied spaces and domestic hot water in lieu of burning natural gas in boilers. The store also has high efficiency, zero-ozone-depleting commercial refrigeration systems.



Grocery Store CCHP Packaged Plant



Direct – Fired & Exhaust & Hot W. Chiller (BZHE)