

News Release

September 27, 2012

JCCME Business Seminar on Renewable Energy and Energy Efficiency

1. In line with the long-term cooperation between Japan and Kingdom of Bahrain in the various fields which was highlighted lately by H.M. the King's visit to Japan last April, the Embassy of Japan in the Kingdom of Bahrain is pleased to announce that a Japanese business delegation from Japan Cooperation Center for the Middle East (JCCME) will visit Bahrain on October 10-11, 2012 to introduce Japanese latest and advanced products and technologies in the fields of renewable energy and energy efficiency improvement.
2. JCCME is an independent, non-profit foundation authorized and supervised by the Japanese Ministry of Economy, Trade and Industry. The objective of JCCME is to contribute to the promotion of Japan's trade and economic and technical cooperation with the Middle East countries, with a view to furthering their economic development.
3. They will hold Business Seminar on October 10, 2012 at Al-Majlis Hall, at the Bahrain Chamber of Commerce and Industry Tower (Bait Al Tijjar) from 9:30a.m to 13:30 hrs. (that will be followed by a lunch until approx. 14:40 hrs.) in which leading Japanese companies will make presentations about the abovementioned topics.
4. This event will be held under the Patronage of Ministry of Industry and Commerce and Bahrain Chamber of Commerce and Industry (BCCI) and jointly hosted by The Bahrain-Japan Business and Friendship Society and Embassy of Japan. We greatly appreciate their kind support and cooperation. Opening Remarks will be delivered by H.E. Dr. Hassan bin Abdullah Fakhro, Minister of Industry and Commerce, H.E. Dr. Essam bin Abdullah Fakhro, Chairman of Bahrain Chamber of Commerce and Industry, and Mr. Nasser Al Arayedh, Deputy President of The Bahrain-Japan Business and Friendship Society.
5. We are pleased to invite Government Officials, Businessmen and those who have interest in the Seminar. Please see details of the event as below.

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For further information in regard to this press release, media inquiries can be directed to Mr. Hiroto Asaoka, Cultural Affairs Section of Japanese Embassy at 17716565 and hiroto.asaoka@mofa.go.jp or to Japan Embassy's Web site at <http://www.bh.emb-japan.go.jp/index.htm>



Japan Cooperation Center
for the Middle East

Program of JCCME Business Seminar
on
Renewable Energy and Energy Efficiency Improvement
under the Patronage of Ministry of Industry and Commerce
and Bahrain Chamber of Commerce and Industry (BCCI)
Jointly hosted by Embassy of Japan
and The Bahrain-Japan Business and Friendship Society

1. Date: 10th October 2012
2. Venue: Al-Majlis Hall at the Bahrain Chamber of Commerce and Industry Tower (Beit Al Tijjar)
3. Program:

09:00-09:30 Registration

09:30-10:00 Opening Session

1. Opening address by Mr. Seiji HIROTA, Executive Director of JCCME
2. Welcome address by H.E. Shigeki SUMI, Ambassador of Japan to the Kingdom of Bahrain
3. Congratulatory address by H.E. Dr. Hassan bin Abdulla Fakhro, Minister of Industry and Commerce
4. Congratulatory address by H.E. Dr. Esam bin Abdulla Fakhro, Chairman of Bahrain Chamber of Commerce and Industry
5. Congratulatory address by Mr. Nassar Al Arayedh, Deputy President of Bahrain-Japan Business and Friendship Society

10:00-11:40 Presentation by Japanese Companies (Session 1)

1. Japanese Business Alliance for Smart Energy Worldwide
“The Introduction of JASE-World”
2. JASE-W Solar Thermal Sub-WG
“The Introduction of “Solar thermal sub-working Gr.” and a technical proposal of Japan-made CSP”
3. Mitsui Engineering & Shipbuilding Co., Ltd.
“CSP Experience and Vision of MES”
4. JFE Engineering Corporation
“Introduction of JFE Engineering CSP Technology”



Japan Cooperation Center
for the Middle East

5. Hitachi Zosen Corporation
*“Renewable Energy Technology-
Hitz Advanced Fresnel CSP with Controlling Mirror Curves”*
6. Yokogawa Electric Corporation
“Introduction of Control & Instrumentation in CSP”
7. Mitaka Kohki Co., Ltd.
“Beam-down Solar Concentrating System and its Application”
~ Session 1 Q&A ~

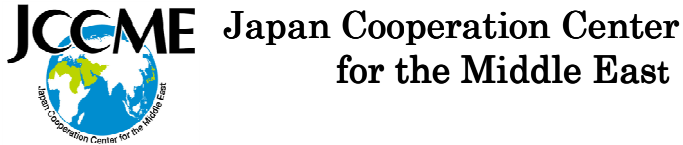
11:40-11:55 Coffee Break

11:55-13:30 Presentation by Japanese Companies (Session 2)

8. Solar Frontier K.K.
“CIS Technology Introduction”
9. Osaki Electric Co., Ltd.
“Energy Management System with Smart Meter”
10. JASE-W Energy Solution Working Group
*“Introduction of JASE-W Energy Solution Working Group to the
Middle East”*
11. TLV International, Inc.
“TLV in the Power Industry”
12. Fuji Electric Co., Ltd.
*“Introduction of Fuji Electric Middle East Branch & Bahrain Project
Office”*
13. Kawasaki Heavy Industries, Ltd.
“Effective use of Energy”
14. Chiyoda Corporation
“Solution for Sustainable Industrial City”
~ Session 2 Q&A ~

13:30-13:40 Closing Session

13:40-14:40 Lunch hosted by JCCME



Japan Cooperation Center for the Middle East

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■ Company Profile

Japan Cooperation Center for the Middle East (JCCME) was founded in 1973—the year of the first oil crisis—by the joint efforts of the Japanese government and the private sector.

The Middle East and the North Africa region can be divided into two areas, one with abundant natural resources such as oil and gas and the other without those resources. Hence, the severe economic disparity is seen among the countries in the region, while some of them face with such disparity domestically. The region is also characterized by the deep-rooted tradition and religion. In order to cooperate for the modernization of the countries in this region, Japan should respect human nature, culture and tradition, and assist them to promote economic development. Following suit of the Japan's success of its modernization, it is important to push the economic development by placing emphasis on human development through education, establishment of lifeline infrastructure and healthcare, and solution of environmental problems.

Since its inception, JCCME has long played a bridging role between Japan and the countries in the Middle East and the North Africa region on the private-sector level by providing cooperation in the fields of trade, investment, economy and technology. In forging new relationship with the region, JCCME makes use of Japan's soft power such as high technology and management know-how, and works to contribute to the development of each of the countries according to their actual situation, bearing in mind that human development and economic development should be the two wheels of a cart for the building of a nation.

JCCME will continue to engage in cooperation and support activities in the fields of lifeline infrastructure, education, environment and IT in the Middle East and the North Africa region in cooperation with the relevant ministries and organizations in Japan. We, JCCME, cordially ask you to understand our mission and extend your continued, warm support and assistance to us.



Japanese Business Alliance for Smart Energy Worldwide

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■ Company Profile

JASE-World was established late October in 2008 not only to promote Japanese excellent smart energy products and technologies overseas but also to form new framework for business promotion, under strong support by the government METI. JASE-World consists of 71 corporate members, 20 industrial associations and 12 Ministries or their relevant organizations. Practical activities are carried out in the four Working Groups consisting of some members to explore business projects like Energy Solution WG, Heat pump & Inverter WG, Solar Power WG and Geothermal Power WG. The WGs have so far dispatched visiting missions overseas to contact to counter parts, to contract MOU with them and to organize bizmatch meetings there.

■ Presentation Title

The Introduction of JASE-World

■ Summary

A catalogue of "Japanese Smart Energy Products & Technologies" is issued every year for four different languages to prevail the technologies and products over the world. The catalogue has been distributed widely at various occasions such as ministerial-level meetings, international exhibitions, and bizmatch events as well as Web site posting. The current 2012 version covers 221 items which the members provide. They are classified into seven categories for easy understanding like 'residence', 'office', 'factory', 'construction & transport', 'electricity', 'steel & iron' and 'oil refinery & chemicals'. Furthermore, applicable items are given on a conceptual figure of 'Smart Community' provided since the version 2011.



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■ Company Profile

The Japanese Business Alliance for Smart Energy Worldwide (JASE-World) is introducing Japanese Smart Energy Products & Technologies to the world. Many Japanese companies with high technical capabilities for energy saving and renewable energy technologies are taking part in the activity of this organization. JASE-W has four Working Groups. Under the Solar Power Working Group, “Solar thermal sub-Working Gr.”, consisting of 14 companies which have valued technologies and business experience, gathers and delves into the business opportunity of concentrated solar power (CSP) worldwide.

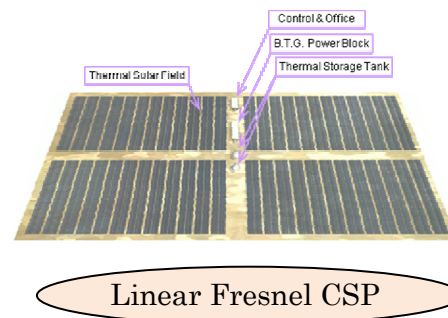
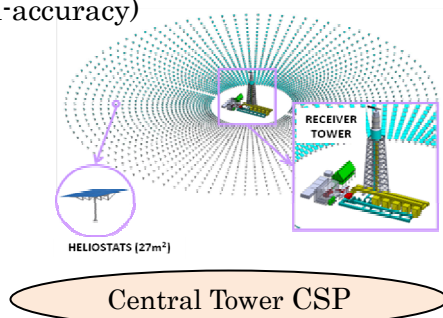


■ Presentation Title

The Introduction of “Solar thermal sub-working Gr.” and a technical proposal of Japan-made CSP

■ Summary

- 1) The Introduction of “Solar thermal sub-working Gr.”
- 2) The Introduction of Japan-made CSP (Central Tower method, Linear Fresnel method).
- 3) The Introduction of Japan-made Components. (Hi-performance, Hi-quality, Hi-accuracy)



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■ Company Profile

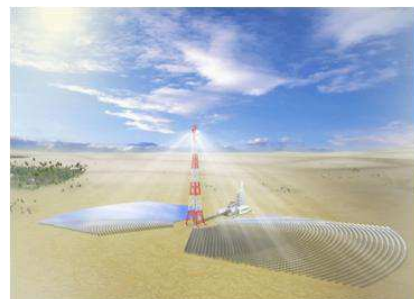


■ Presentation Title

CSP Experience and Vision of MES

■ Summary

- 1) Introduction of MES's CSP
 - ◆ Beam Down Central Tower Project in Abu Dhabi (MASDAR city)
- 2) The Planning of ISCC Plant
 - ◆ ISCC Planning in Tunisia
- 3) Research & Development of MES's CSP
 - ◆ Experiment of concentrating light & thermal
 - ◆ Development of Heliostat for Abu Dhabi/Tunisia
 - ◆ Basic Designing of CSP Plant in Tunisia





JFE

JFE Engineering Corporation

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■ Company Profile

The history of JFE Engineering Corporation began when the company inherited the steel manufacturing technologies and shipbuilding technologies developed by NKK and Kawasaki Steel. These two fields of technology were fused over the course of 100 years, and are now used to produce resources, build cities and preserve the environment. JFE Engineering is truly realizing a more abundant living environment and advanced industrial infrastructure as a force that “creates the foundation for the lives of people.”

■ Presentation Title

Introduction of JFE Engineering CSP Technology.

■ Summary

Central Tower Type CSP Technologies developed by JFE Engineering are presented. The features of JFE CSP are 1) Power on demand, 2) Environmentally friendly, 3) Stable power supply and 4) Various applications.

Power on demand is realized by introducing Hot Stove thermal storage system which has long been used in steelmaking industry. Air and water are used as heat transfer medium and no thermal oil or molten salt are used which makes the system environmentally friendly. Use of heat storage system realizes stable power output. JFE CSP can be used not only for electric power generation but also for steam supply to thermal power station.



Hitachi Zosen Corporation



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■ Company Profile

Our business is Environmental Systems, Industrial Plants, Industrial Machinery, Process Equipment, Precision Machinery, Steel Structure, Construction Machinery and Disaster Prevention Systems. Base on the corporate philosophy of “contributing to prosperous future by leveraging technology to create value useful to society”, we will continue to carry out operations in the areas of “green energy” and “social infrastructure and disaster prevention”, toward the next milestone in our history-the 150th anniversary of our establishment.

“Hitz Advance Fresnel Type CSP (Concentrated Solar Panel)” has unique technology that the mirrors can be made curve with operated by computer. This system can perform good efficiency to collecting solar. SWCC and Hitachi Zosen set up Solar Energy Research Agreement on November 30, 2011.

■ Presentation Title

- Renewable Energy Technology –
Hitz Advanced Fresnel CSP with Controlling Mirror Curves

■ Summary

Key words: “High performance of sun light correction”, “Compact”
and “Low wind profile

We present our features based on the above 3 key wards.
We have already started the cooperation development of CSP between SWCC (Saline Water Conversion Corporation in Saudi Arabia) and Hitachi Zosen Corp., the test operation will be started around the end of this year.

YOKOGAWA

Yokogawa Electric Corporation

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■ Company Profile

As a company, our goal is to contribute to society through broad-ranging activities in the areas of measurement, control, and information.

From its founding in 1915, Yokogawa Electric Corporation has contributed to society by supplying industry with cutting-edge products based on its measurement, control, and information technologies. Always sensitive to changing customer needs, Yokogawa has continued to transform itself and has become a leading company in the global industrial automation and control field. While striving to enhance our corporate value, we remain committed to doing our part as a trustworthy industry partner to realize a more prosperous society.

■ Presentation Title

“Introduction of Control & Instrumentation in CSP”

■ Summary

Our presentation outlines the control and instrumentation for concentrated solar power, aka CSP. This presentation introduces various sensors and controllers typically used in CSP while showing our references.

First, we will introduce the functions and features of the HXS10 solar tracking controller that enables the orientations of mirrors in a CSP solar field to be controlled to track the sun to acquire the maximum heat at all times. Second, we will introduce FAST/TOOLS, the SCADA solution from Yokogawa. Combined with the HXS10 controllers, FAST/TOOLS offers ideal remote monitoring and control of CSP fields, including the mirror setting to their “parked” positions for safety where the weather condition requires such as in case of a typhoon or hurricane.

Also introduced are our proven field instruments supplied to CSP plants for pressures, flow, and temperature measurement of CSP heat transfer fluids.

In the power generation block, turbines and balance of plants (BOP) are controlled by a SCADA or distributed control system just like conventional power stations. Our various, tried and true field instruments and analyzers used there will be introduced briefly as well.



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■ Company Profile

MITAKA KOHKI manufactured the various industrial devices including a 3D measurement device and space observation and medical devices. The company had technical alliance with Leica Microsystems in 1990 and started sales in the world market. Currently it is developing a carbon-free solar power generation system and seawater desalination system as environmental countermeasures.

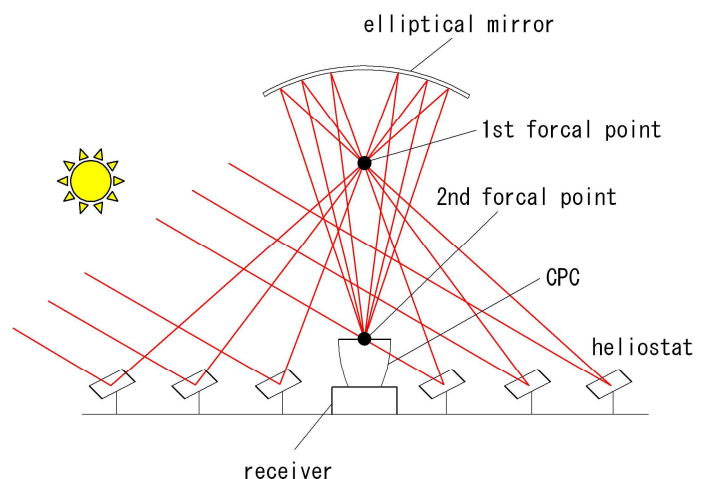
■ Presentation Title

BEAM-DOWN SOLAR CONCENTRATING SYSTEM AND ITS APPLICATION

■ Summary

Application of BEAM-DOWN

- ① Steam turbine power generation
- ② Gas turbine power generation
- ③ Seawater desalination by evapor
- ④ District cooling system by Absor
- ⑤ Production of magnesium
- ⑥ Production of aluminum
- ⑦ Applications to agricultural facil
- ⑧ More





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Photo

■ Company Profile

Solar Frontier K.K., a 100% subsidiary of Showa Shell Sekiyu K.K. (TYO:5002) ("Solar Frontier"), has a mission to create the most economical, ecological solar energy solutions on Earth. Building on a legacy of work in solar energy since the 1970s, Solar Frontier today develops and manufactures CIS (denoting copper, indium, selenium) thin-film solar modules for customers in all sectors around the world. Solar Frontier's gigawatt-scale production facilities in Miyazaki, Japan, integrate compelling economical and ecological advantages into every module: from lower energy requirements in manufacturing to the higher overall output (kWh) of CIS in real operating conditions. Solar Frontier is headquartered in Tokyo, with offices in Europe, the U.S.A., and the Middle East.

■ Presentation Title

CIS Technology Introduction

■ Summary

We will brief the advantage and showcase of Solar Frontier's proprietary CIS technology use in the Middle East.



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■ Company Profile

Osaki Electric Co., Ltd. is the leading Japanese meter manufacturer. Founded in 1937, it manufactures both meters and sub metering systems. It has over 40% of the Japanese domestic market providing electricity meters to all ten of the local power companies.

Following the acquisition of EDM I in March 2012, the wider Osaki group now includes one of the leading smart metering and metering solutions providers in the world.

■ Presentation Title

Energy Management System with Smart Meter

■ Summary

Osaki helps you save money by using the Energy Management System.
The concepts are “Simple”, “Low price” and “Smart meter”.

Step1: Measuring and Analysis

First of all, Osaki installs smart meter to your office, factory etc.
Secondly, Osaki collects data (kWh, kW, V, A, VA etc.).
Finally Osaki analyzes the data by using the Energy Management System.

Step2: Saving Energy

Osaki can help you save energy to use analysis data.

**Osaki is providing “Simple” and “Low price” Energy Management Systems with
“Smart meter” all over the world.**



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Hitachi Zosen Corporation



YOKOGAWA ◆



■ JASE-W Profile

Currently, the world is facing the dual issues of aggravation of global environment due to increasing energy consumption, and growing uncertainty about stable supply of natural resources. The keys to solve these issues are promotion of energy conservation and utilizing renewable energy. Japan has achieved economic growth without increasing energy consumption of industrial sector after the oil shock by using its advanced smart energy products and technologies. It is not only our responsibility but also highly expected role from the world that Japan should contribute to solve global environmental and energy issues through disseminating those products and technologies. However, for sustainable promotion of smart energy products and technologies owned by Japanese industries, conventional business practices are not enough and some new framework is necessary. Under these circumstances, business and public sectors jointly formed the Japanese Business Alliance for Smart Energy Worldwide in October 2008 in order to advertise Japanese smart energy products and technologies and to formulate new framework for business promotion. The secretariat is appointed the Energy Conservation Center, Japan, which operates and support JASE-W.

■ Presentation Title

Introduction of JASE-W Energy Solution Working Group to The Middle East

■ Summary

JASE-W Energy Solution Working Group operates 6 active sub-working groups: Russia, Latin America, "W to E", Vietnam, EE for Commercial Sector, and The Middle East.

The Middle East sub-working group was just formed in June 2012, and we are already taking proactive initiative to launch energy solution activities for our Middle East partner countries.

Member companies of this sub-working group are: Chiyoda, Fuji Electric, Hitachi Zosen, JFE, JGC, Kawasaki Heavy Industry, Yokogawa, and TLV.

■ Energy Solution Focuses:

- 1) Smart City – target regions are locations with an oasis, but no energy grid.
- 2) Power Plant Upgrade – plants built with conventional technology (before the 80's)

We surely can contribute these 2 areas. Let's talk!



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■ Company Profile

Established in Japan in 1950, TLV has grown to become a world authority in steam engineering products and services. TLV now counts subsidiary offices in 12 different countries and offers products through over 100 distributors worldwide. TLV is true to the philosophy of complete customer satisfaction through strict adherence to its two fundamental policies:

Quality First Incomparable Originality

Only through providing superior products and services that are of great benefit to the customer can complete satisfaction be guaranteed. This is the credo that has supported TLV's growth since its inception, and will continue to be the guide into the future.

■ Consulting, Engineering, Service: CES

TLV believes that true customer satisfaction can only be obtained by finding solutions to the various difficulties customers encounter in running their businesses and operating their plants. TLV consulting, engineering and service activities are designed to find the best solutions to increase productivity, maximize energy savings, improve quality and promote environmental conservation. CES activities are the embodiment of the complete customer satisfaction philosophy.

■ Presentation Title

TLV in the Power Industry

■ Summary

TLV has been providing steam and condensate solutions to a broad number of industries for over 60 years. Approximately 10% of sales revenue generated comes from the power industry in Japan.

The presentation will provide an overview of TLV as a company and explain how TLV has been supporting the power industry in Japan.



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■ Company Profile

-Company Name: Fuji Electric Co., Ltd. -Capital Stock: US\$593 million
-Established: August 29, 1923 -Number of Employees: 24,973
-Net Sales: US\$8,793 million

Product and solution

1. POWER / SOCIAL INFRASTRUCTURE
Geothermal Power Generation, Fuel Cells, Thermal Power Generation, Hydraulic Power Generation, Nuclear Power, Energy Management, Transport System, Radiation Equipment
2. INDUSTRIAL INFRASTRUCTURE
Industrial Plants, Facilities
3. POWER ELECTRONICS
Drives, Power Supply, Electrical distribution & control components
4. ELECTRICAL DEVICES
Power Semiconductors, Solar cells, Organic photoconductors, Magnetic disks
5. FOOD AND BEVERAGE DISTRIBUTION
Vending machines, Store & distribution

■ Presentation Title

Introduction of Fuji Electric Middle East Branch & Bahrain Project Office

■ Summary

In 2002, upon award of 220kV Gas Insulated Switchgear(GIS) substation contract for Ministry of Electricity & Water(MEW now EWA, Electricity & Water Authority), three engineers started to be stationed in Bahrain to execute the on-site works. Since then, EWA continually awarded contracts 220kV, 66kV GIS substation contracts to Fuji Electric (Japan AE Power Systems) and today site operation is now under a project office with approximately 70 members.

In 2011, Bahrain branch office was established to expand business for the Transmission & Distribution project as well as the industrial development project in the middle East.



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■ Company Profile

Manufacturer and Supplier of Aircraft, Helicopter, Rolling Stock, Ship,
Gas Turbine, Gas Engine, Compressor, Industrial Robot and Motorcycle

■ Presentation Title

Effective use of Energy

■ Summary

1. Introduction of Kawasaki Heavy Industries Ltd.
2. Idea of District Power Generation & Co-Generation
3. Gas Turbine for District Power Generation & Co-Generation
4. Gas Engine for District Power Generation & Co-Generation
5. Absorption Chiller for Co-Generation and Solar Cooling



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■ Company Profile

Since its establishment in 1948, Chiyoda Corporation has engaged in engineering and construction work and services at innumerable industrial plants both in Japan and overseas in the fields of oil, natural gas and other energy sources; petrochemical and chemicals; pharmaceuticals; and general industrial machinery.

Chiyoda has been one of the first companies to state our intention to contribute to sustainable social development through our engineering and technology by providing appropriate solutions to the various energy and environmental issues we currently face, and have been putting those words into action ever since.

With over 60 years of technological experience, Chiyoda is working to build on its position as the “Reliability No.1” project company with a high level of customer and investor trust, not only in terms of technology but also in terms of our people and management. At the same time, Chiyoda will continue to improve our financial strength and to raise our corporate value.

■ Presentation Title

Solution for Sustainable Industrial City

■ Summary

Since Chiyoda has been implementing various types of projects in “Industrial Areas” of Middle East, Chiyoda is really familiar with energy, chemicals, water, plants and equipments in “Industrial Area” especially relating with Oil and Gas industry.

It is an honor for Chiyoda to have this opportunity to introduce its technologies to realize “Sustainable Industrial City” applying energy optimizing measures, renewable energy, utility optimization, and any other low-carbon and environmentally friendly technologies.

Chiyoda is confident to contribute to sustainable city plan, not only as an EPC contractor, but also as your business partner.

Participants List of Japanese Delegation on Renewable Energy and Energy Efficiency Improvement

	Name	Organization	Dpt./Job Title	Theme
1	Mr. Ryohei Okada	Japanese Business Alliance for Smart Energy Worldwide	Senior Staff (General Manager)	Renewable Energy(CSP)
2	Mr. Kazuaki Ezawa	Mitsui Engineering & Shipbuilding Co., Ltd.	Renewable Energy Project Dept. Business Development & Innovation Hq./Manager	Renewable Energy(CSP)
3	Mr. Yasumitsu Sato	Mitsui Engineering & Shipbuilding Co., Ltd.	Renewable Energy Project Dept. Business Development & Innovation Hq./Assistant Manager	Renewable Energy(CSP)
4	Mr. Yutaka Suzukawa	JFE Engineering Corporation	Solar Power Systems Dept./Deputy General Manager	Renewable Energy(CSP)
5	Mr. Yoshiharu Suzuki	Hitachi Zosen Corporation	Strategic Planning Department/Senior Manager	Renewable Energy(CSP)
6	Mr. Hiroshi Kosaka	Hitachi Zosen Corporation	Engineering Headquarters/Solar Thermal Project Manager	-
7	Mr. Go Iwata	Yokogawa Electric Corporation	Global Sales Headquarters Power Systems Dept./Sales Manager	Renewable Energy(CSP)
8	Mr. Toshiyuki Onomura	Mitaka Kohki Co., Ltd.	Business Develop Dept Intellectual Property Dept/Director	Renewable Energy(CSP)
9	Mr. Kazuyuki Kamimura	Solar Frontier K. K.	GM, TSO	Renewable Energy(PV)
10	Mr. Hitoshi Shindo	Osaki Electric Co., Ltd.	International Business Division/Sales Manager	Energy Efficiency Improvement
11	Mr. Takaharu Nakashima	TLV International Inc.	Technical Sales/Manager	Energy Efficiency Improvement
12	Mr. Katsuhito Komeda	Fuji Electric Middle East Branch Office	General Manager	Renewable Energy & Energy Efficiency Improvement
13	Mr. Ryo Yamasaki	Kawasaki Heavy Industries, Ltd.	Managing Director	Renewable Energy & Energy Efficiency Improvement
14	Mr. Rikiya Takayanagi	Chiyoda Corporation	Strategic Business Investment Development Sec., Business Development Unit3 Business Development Division/Area Manager	Renewable Energy & Energy Efficiency Improvement
15	Mr. Seiji Hirota	Japan Cooperation Center for the Middle East	Executive Director	
16	Mr. Kimiharu Chokki	Japan Cooperation Center for the Middle East	Deputy Managing Director	
17	Mr. Kazunori Ishijima	Japan Cooperation Center for the Middle East	Planning & Project/Director	
18	Mr. Tomonori Matsuzaki	Japan Cooperation Center for the Middle East	Planning & Project/Director	