



Under the Patronage of
H. E. Shaikh Ahmed bin Mohammed Al Khalifa
 Minister of Finance,
 Minister in Charge of Oil & Gas Affairs
 Kingdom of Bahrain



Speakers Registration Fee Waived Off

1st Energy Management Conference & Exhibition 2013

Towards Energy Sustainability

09 – 11 December 2013



CALL FOR ABSTRACTS

Gulf International Convention Center, Gulf Hotel, Kingdom of Bahrain

Organized by



الهيئة الوطنية للنفط والغاز
NATIONAL OIL & GAS AUTHORITY



جمعية المهندسين من البحرين
BAHRAIN SOCIETY OF ENGINEERS



Kingdom of Bahrain
Ministry of Finance

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www.energymanagement.bh



Chairman's Message



Mr. Ahmad Al Khowaiter
Conference Chairman

Currently Chief Engineer at Saudi Aramco.

Prior to this post, he was Director of New Business Evaluation Development at Saudi Aramco.

He was Interim Vice President for Economic Development at King Abdullah University of Science and Technology (KAUST).

Mr Al Khowaiter has received a BSc and Masters in Chemical Engineering and an MBA as a Sloan Fellow from MIT in 2005.

He joined Saudi Aramco in 1984 and worked for the company in various technical roles in the oil and gas production organizations, ranging from design, project management, commissioning, to operation.

He presently serves on the Board of Showa Shell Sekiyu KK in Japan and Sadara Chemical Company in Saudi Arabia, as well as the Arabian Gulf Company (AGOC).

It gives me immense pleasure to welcome you for the First Middle East Energy Management Conference & Exhibition 2013. We are indeed honored to hold this significant event under the patronage of H. E. Shaikh Ahmed bin Mohammed Al Khalifa, Minister of Finance, Minister in charge of Oil & Gas Affairs, Kingdom of Bahrain.

The world's economic system is driven by energy. Resources depletion and predictions of severe environmental effects deriving from continued use of fossil fuels are spurring renewed interest in sustainable energy. The effort that will be required to shift from a fossil fuel-based economy to one hinged on sustainability is massive, requiring advances in the basic sciences (materials, electrochemistry and heat transfer to name a few) through to systems engineering (buildings, electric grids, transportation) and all the way to international policymaking.

The evolution of new energy technologies and systems cannot follow the compartmentalized model that has worked so well in the past, because of the time constraints imposed by oil depletion and climate change. All parts of the new energy economy are strongly interlinked, and researchers in the field must be aware of the entire enterprise to maximize their own contributions. This conference offers an opportunity for scientists, professionals, policymakers and other parties to review recent developments in this rapidly changing environment.

I would like to invite local, regional and international organizations to participate in the exhibition being held parallel to the conference and showcase the latest trends. With your participation I am confident we will be a step closer towards achieving the event's theme, "Towards Energy Sustainability".

I look forward to meeting you all at this premier international gathering.

Thank you.





Energy Management Conference & Exhibition 2013

Introduction

Energy is central to sustainable development and key to strategic planning for any country. It affects all aspects of development, social, economic, and environmental, including access to water, agricultural productivity, health, education, and other development issues. However, energy extraction, conversion and use always generate undesirable environmental impacts, if not managed well, can have devastating effects on the planet including global climate change.

Energy security refers to the uninterrupted availability of energy sources at an affordable price. It has many aspects: long-term energy security is mainly linked to timely investments to supply energy in line with economic and social development plans. While, short-term energy security focuses on the ability of the energy system to react promptly to sudden changes in the supply-demand balance.

Energy management is one of the crucial roles of government institutions in ensuring that energy supply and demand decisions made by all stakeholders - producers, consumers, investors, etc. – are compatible with overall goals for national sustainable development. Managing energy at the national level offers a multitude of benefits including projecting future energy demand, assessing alternative supply options to meet future demand, and assessing environmental, economic, and social impacts of different energy policies.

The energy sector is playing and will continue to play a vital role in socioeconomic development in the GCC countries. Hydrocarbon resources are providing nearly 100 % of the GCC's energy demand leading to high carbon footprint. One of the most alarming energy issues in the GCC has been the poor level of energy efficiency that leads to a demand growth which surpasses the economic and population growth rates. Well-balanced supply / demand strategies are urgently needed and the policies of the energy sector have to be developed to adopt energy efficiency and renewable energy as effective strategies to enhance economic efficiency and achieve sustainability.

In addition, Gulf countries are particularly vulnerable to potential reduction in global oil consumption as a result of carbon emission mitigation policies post-2020. Therefore, dedicated strategy must be embraced to rationalize oil & gas consumption and to stress the need to introduce renewable resources in the energy mix.

We are certain that you will find this Conference and Exhibition both enjoyable and valuable. We look forward to seeing you in Bahrain.

Plenary Speakers



H. E. Shaikh Ahmed bin Mohammed Al Khalifa
Minister of Finance, Minister in Charge of Oil & Gas Affairs
Kingdom of Bahrain



H.E. Abbas Ali Al-Naqi
Secretary General,
Organization of Arab Petroleum Exporting Countries (OAPEC).



Mr. Ahmad Al Khowaiter
Chief Engineer, Saudi Aramco
Kingdom of Saudi Arabia



Dr. Khalid Abdul Rahman Nasser Al Ohaly
President,
Arabian Gulf University



Mr. A. Majeed Al Gassab
President,
Bahrain Society of Engineers



Conference Committees

Mr. Ahmad Al Khowaiter Conference Chairman	Saudi Aramco
Mr. Ali A. Jabbar Al Sawad Vice Chairman	NOGA

Organizing Committee

Mr. Anwar Khalaf - Chairman	NOGA
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Logistics & Delegates Committee

Mr. Jameel Khalaf Al Alawi - Chairman	BSE
Mr. Hassan Al Taraifi	BSE

Sponsorship & Exhibition Committee

Mr. Ayman Nasser - Chairman	BSE
Mr. Ahmed Al Khan	BSE

Publicity Committee

Ms. Sameera Al Qattan - Chairman	Ministry of Finance
Ms. Mona Duaibis	Ministry of Finance
Mr. Hassan Fardan	NOGA
Mr. Mahdi Al Jalawi	BSE

Technical Committee

Dr. Ibrahim Abdel Gelil - Chairman	Arabian Gulf University
Dr. Mohammed Al Sayyad	NOGA
Mr. Hussain Makki	NOGA
Dr. Scott Kennedy	Masdar Institute
Dr. Abdullah Al Badi	SQU
Dr. Sa'ad Al Jandal	KISR
Dr. Adel Gastli	Qatar University
Dr. Sulaiman Al-Mayman	KACST
Dr. Rabi H. Mohtar	Qatar Foundation
Dr. Ahmed Yousef	University of Bahrain
Mr. Refaat Mahfoudhi	Saudi Aramco
Mr. Saleh Qahtani	Saudi Aramco
Mr. Raed Shneiber	Saudi Aramco

Advisory Committee

Mr. Jassim Al Shirawi	NOGA
Dr. Faisal Al Faqeer	Saudi Aramco
Mr. A. Hussain Monfaridy	NOGA
Mr. A. Majeed Al Gassab	BSE





Topics

Energy Security & Policies Framework

- Energy policies
- Energy Sector reform
- Energy sector regulators
- Energy-water nexus
- Barriers to energy efficiency and renewable energy

Financing the Energy Sector and the Role of PPP

- Independent Power and Water producers
- The role of Financial Institutions
- Innovative Financing schemes
- Energy pricing

Energy in the Global Carbon Market

- Carbon Mitigation policies and measures
- The global carbon market
- The Clean Development Mechanism
- Nationally Appropriate Mitigation Actions (NAMAs)
- Carbon Capture and Storage (CCS)

Role of the Private Sector and ESCOs

- Consulting Services
- Technology providers
- Energy Service Companies (ESCOs)

Energy Efficiency and DSM

- Industrial Energy efficiency
- Energy efficiency technologies
- Energy efficiency labels and standards
- Waste heat recovery in process industry
- Efficient desalination technologies
- District cooling
- Green buildings
- Public education

Renewable Energy & Alternative Fuels

- Policy options for sustainable transport
- Sustainable transport technologies
- Concentrated Solar Power (CSP)
- PV technologies
- Wind Energy

Call for Papers

Technical papers are invited on the topics outlined above and other subjects related to the theme of the conference. Abstracts should be submitted to the Chairman of the Technical Committee using our online portal on energymanagement.bh. Abstracts should clearly state the subject matter, the objectives, and the important conclusions to be presented in the full paper. The abstract should include the title of the paper, the author's name and the affiliation including the mailing and the e-mail addresses. Selection of papers will take into account the originality, relevance and likely interest to delegates. Theoretical papers are expected to include experiments or practical validation and/or detail of likely application. Guidelines for the submission of manuscript for review and for the preparation of final draft will be communicated upon the acceptance of the abstract. Abstracts should not exceed 400 words. Paper manuscript or power point presentations are both accepted. Speakers who would have accepted abstracts will be exempted from the registration fee

Important Dates

Abstracts Due:	10th September 2013
Abstract Acceptance	1st October 2013
Submittal of manuscript / Final Presentation	9th November 2013

Submit your abstracts on http://energymanagement.bh/abstract_submission_form.php

Conference Registration Fees

	Early Bird Upto 15th October 2013	Full registration After 15th October 2013
Delegates	BHD 180	BHD 200
Authors	Free	Free
Students	BHD 80	BHD 80

★ Only authors of the accepted abstracts will be exempted from the registration fee.



Exhibition Information

An exhibition will be held on 09 to 11 December 2013, intended to provide an opportunity for companies, consulting and research organizations to display and demonstrate their products and services related to the subject of electricity and water conservations and other associated services. Interested organizations are encouraged to participate either by sponsoring the event or by taking part in the exhibition (see the exhibition form).

The exhibition stands are 3m wide, 2m deep and 2.4 m height. In addition to the stand, two florescent lights will be provided. Moreover, each exhibitor is entitled for the following benefits:

- Exhibitors names will be published in the web site.
- A brief profile of 10 to 15 lines of each exhibitor will be included in the official exhibition guide which will be circulated to all invited officials, VIPs, visitors and other dignitaries.
- Advertising space will be available in the Exhibition Guide at a minimum cost.
- Wide publicity will be given in the Gulf Region about the exhibition to attract consultants, contractors and Government officials to visit the exhibition booths during the period.
- Each exhibitor is entitled for one free delegate attendance with full conference package



Exhibition Stand Cost

- Full Exhibition space - BD 800 or US\$ 2160 (per 6m2)
- Exhibition Space without fittings - BD 125 or US\$ 340 per m2
- Acceptable forms of Payment in Bahrain Dinars or US Dollars:
 - * Bank Draft - Payable to Bahrain Society of Engineers
 - * Credit Card Mail Order - Visa Master Card Amex
 - * Direct Bank Transfer

A/c Name - Bahrain Society of Engineers
IBAN A/C - BH47-NBOB-0000-0099-0659-91
Bank Name - National Bank of Bahrain, Manama Main Branch
Swift Code - NBOBBHBM

Note: In case of cancellation of Exhibition Space before 1st May 2013, the Exhibitor will be refunded the Exhibition Stand cost after deduction of nominal Administration Charges borne by the Conference Secretariat.





Energy Management Conference & Exhibition 2013

Exhibition Stand Booking Form

Energy Management Conference & Exhibition 2013

09 - 11 December 2013, Gulf Hotel, Kingdom of Bahrain

Company: _____

Name of Representative: _____ Position: _____

Mailing Address: _____

City: _____ Country: _____ Postal Code: _____

Telephone: _____ Mobile: _____ Fax: _____ Email: _____

Products or services to be displayed: _____

Signature: _____ Date _____

Select the desired stand options

Option A

Shell Scheme Package
Participation fees: BD 800 or US\$ 2160 (per 6m2)

No. of Stands Required

Booked Shell Space

Participation includes:
White wall panels 2.4m height, Carpet Floor, 2 Tables with three chairs, two fluorescent lights, one 240 volt power socket.

Stand Nos.

Select desired stand Nos. from the exhibition stand layout

Option B

Stand Space Only (min. 6m2)
Participation fees: BD 125 or US\$ 340 per m2

Stand Nos.

Select desired stand numbers from exhibition stand layout

Booked Shell Space

Participation does not include any stand construction except one 240 volt power supply. (It is not permitted to use wall partitions of adjacent stands.)



Note: All efforts will be made to accommodate your stand location request based on availability.

Please forward your booking form to:

The Conference Secretariat,
Bahrain Society of Engineers, P O Box 835, Manama, Kingdom of Bahrain.
Tel: +973 17 810733, Fax: +973 17 827475
Email: vivek@mohandis.org, bseng@batelco.com.bh

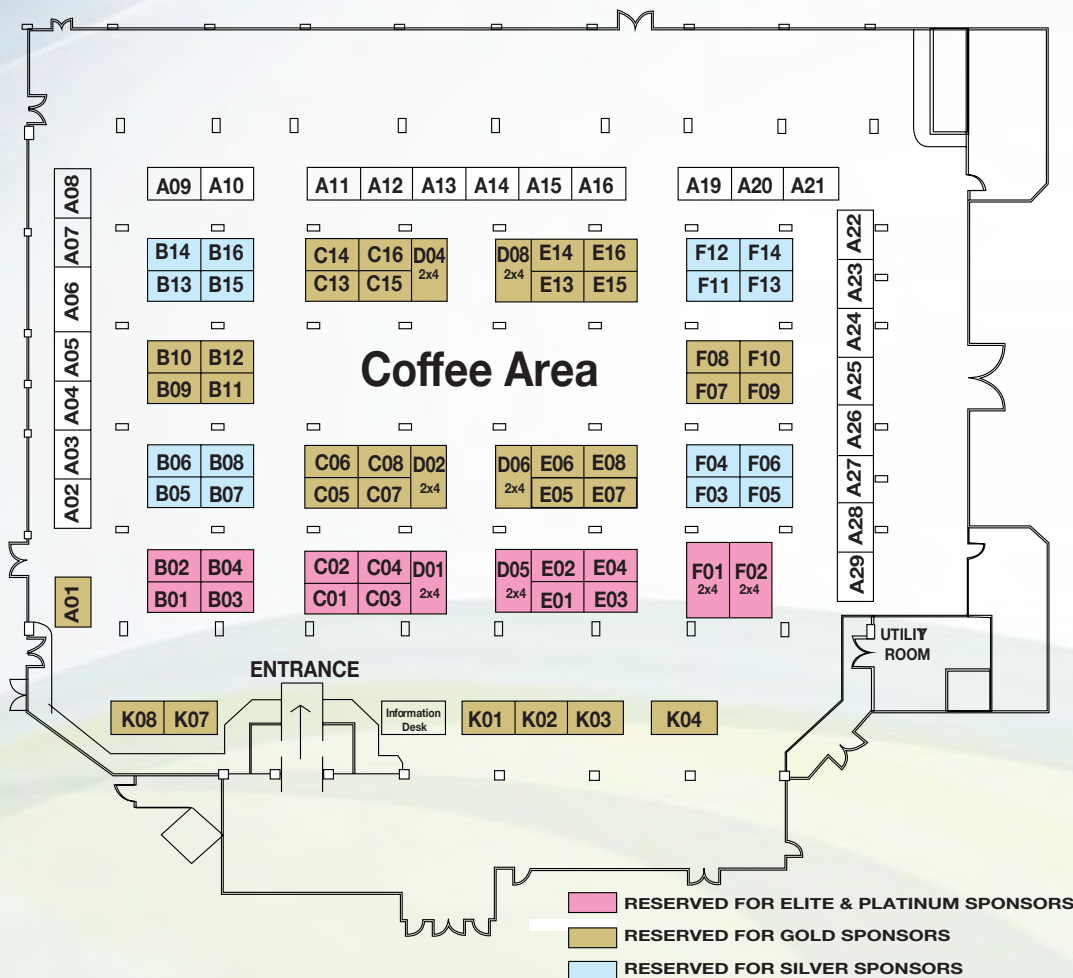
A/c Name - Bahrain Society of Engineers
IBAN A/C - BH47-NBOB-0000-0099-0659-91
Bank Name - National Bank of Bahrain,
Manama Main Branch
Swift Code - NBOBBHBM



Exhibition Floor Plan

Energy Management Conference & Exhibition 2013

09 - 11 December 2013, Gulf International Convention Center Gulf Hotel, Kingdom of Bahrain



A technical exhibition will be held in conjunction with the technical sessions within the conference venue. The exhibition is intended to provide an opportunity for equipment, materials and service providers to display and demonstrate their products and services related to the Energy Management field. Interested organizations are encouraged to participate by sponsoring the event and/or by taking part in the exhibition (see the exhibition form). The exhibition stands are 3m wide and 2m deep with 2.4m height. Stand fittings will consist of a system stand, two fluorescent lights, fascia board in English, one electrical power point and sufficient tables and chairs. In addition each exhibitor will avail the following benefits:

- 1) Exhibitor names will be published in the conference web site.
- 2) Exhibitors profile and logo will be included in the Conference Proceedings in Flash Memory.
- 3) Advertising space will be available in the Exhibition Guide at a minimum cost, details will be provided on request.
- 4) A brief resume (8 - 10 lines) of each exhibitor will be included in the official exhibition guide, which will be circulated to all invited government officials, VIPs, visitors and participating delegates.
- 5) Wide publicity will be given in the Gulf Region about the exhibition to attract regional and international Industrial Companies and Government officials to visit the exhibition booths during the conference period.
- 6) Each exhibitor is entitled to one full conference package (one person allowed to attend all the technical sessions free of charge during the 3 days conference period).

For further details about the Exhibition, please contact the Conference Secretariat.

Conference Secretariat
 Bahrain Society of Engineers,
 P O Box 835, Manama, Kingdom of Bahrain
 Tel: +973 17 810733 Fax: +973 17 827475
 Email: vivek@mohandis.org, bseng@batelco.com.bh



Energy Management Conference & Exhibition 2013

Benefits Offered to Sponsors

Energy Management Conference & Exhibition 2013

09 - 11 December 2013, Gulf Hotel, Kingdom of Bahrain

Benefits offered to Sponsors

Benefits	Elite Platinum BD 20,000 or US\$ 54,000	Platinum BD 7,500 or US\$ 20,000	Gold BD 5,000 or US\$ 13,300	Coference Dinner BD 4,500 or US\$ 12,000	Silver BD 4,000 or US\$ 10,700
Company name and logo of appropriate sizes will be published in all the conference publicity materials.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Entitled for free exhibition stand space with stand fittings at the exhibition hall.	<input checked="" type="checkbox"/> 32 Sq.M	<input checked="" type="checkbox"/> 18 Sq.M	<input checked="" type="checkbox"/> 12 Sq.M	<input checked="" type="checkbox"/> 6 Sq.M	<input checked="" type="checkbox"/> 6 Sq.M
Delegates from the sponsoring company may attend the conference with full package free of charge.	<input checked="" type="checkbox"/> 6 Delegates	<input checked="" type="checkbox"/> 4 Delegates	<input checked="" type="checkbox"/> 2 Delegates	<input checked="" type="checkbox"/> 1 Delegate	<input checked="" type="checkbox"/> 1 Delegate
Publicity materials can be included in the conference pack.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Company name and logo will be published in the conference web site which shall be connected to the Sponsor's web site.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Advertisement shall be provided in the Exhibition Guide free of cost.	<input checked="" type="checkbox"/> 2 Full Pages	<input checked="" type="checkbox"/> 1 Full Page	<input checked="" type="checkbox"/> 1 Full Page	<input checked="" type="checkbox"/> Half Page	<input checked="" type="checkbox"/> Half Page
Company will be honored with a Plaque by the Conference Patron at the Opening Ceremony.	<input checked="" type="checkbox"/> 1st	<input checked="" type="checkbox"/> 2nd	<input checked="" type="checkbox"/> 3rd	<input checked="" type="checkbox"/> 4th	<input checked="" type="checkbox"/> 4th
Executive Officers will be treated as VIPs during the opening ceremony.	<input checked="" type="checkbox"/> 4 Nos	<input checked="" type="checkbox"/> 3 Nos	<input checked="" type="checkbox"/> 2 Nos	<input checked="" type="checkbox"/> 1 No	<input checked="" type="checkbox"/> 1 No
Company logo will be displayed in the conference hall along with the conference banner.	<input checked="" type="checkbox"/> 3m x 3m	<input checked="" type="checkbox"/> 2m x 2m	<input checked="" type="checkbox"/> 1.5m x 1.5m	<input checked="" type="checkbox"/> 1m x 1m	<input checked="" type="checkbox"/> 1m x 1m
Roll up will be displayed outside the lobby along with company logo.	<input checked="" type="checkbox"/> Separate	<input checked="" type="checkbox"/> Separate	<input checked="" type="checkbox"/> Shared	<input checked="" type="checkbox"/> Shared	<input checked="" type="checkbox"/> Shared
Company name, logo and profile will be published in the conference proceedings.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>





Sponsorship Form

Energy Management Conference & Exhibition 2013

09 - 11 December 2013, Gulf Hotel, Kingdom of Bahrain

To Co-sponsor the Conference & Exhibition

Please complete this form and fax it to +973 17 827475 to the attention of
The Conference Secretariat, Email: bseng@batelco.com.bh

<input type="checkbox"/> Elite Platinum Sponsor	BD 20,000	USD 54,000
<input type="checkbox"/> Platinum Sponsor	BD 7,500	USD 20,000
<input type="checkbox"/> Gold Sponsor	BD 5,000	USD 13,300
<input type="checkbox"/> Conference Dinner	BD 4,500	USD 12,000
<input type="checkbox"/> Silver Sponsor	BD 4,000	USD 10,700
<input type="checkbox"/> Luncheon	BD 4,500	USD 12,000
<input type="checkbox"/> Publication	BD 3,500	USD 9,300



Company Name: _____

Contact Person: _____

Title: _____

Mailing Address: _____

City: _____

Country: _____

Postal Code: _____

Telephone: _____

Fax: _____

Email: _____

Signature: _____

Date: _____

Company Seal

Banker's draft/ Cheque payable to The Bahrain Society of Engineers

By Bank Transfer -

A/c Name - Bahrain Society of Engineers
 IBAN A/C - BH47-NBOB-0000-0099-0659-91
 Bank Name - National Bank of Bahrain, Manama Main Branch
 Swift Code - NBOBBHBM

Sponsorship Coordinator
 Bahrain Society of Engineers
 P.O. Box 835, Manama, Kingdom of Bahrain
 Tel: +973 1781 0733 Fax: +973 17827475
 Email: vivek@mohandis.org, bseng@batelco.com.bh



Conference Venue & Accommodation

The conference and exhibition will be held at the Gulf International Convention & Exhibition Center, Gulf Hotel, Kingdom of Bahrain. The Gulf Hotel offers luxurious hospitality. A landmark in Manama, just 10 minutes away from the Bahrain International Airport and 5 minutes from the City Centre. It offers 366 well-appointed rooms of gracious style, uncompromising efficiency and thoughtful technology. The Gulf International Conference & Exhibition Centre offers exhibition, meeting and pre-function areas with unequalled state-of-the-art facilities. The hotel houses many of Bahrain's leading restaurants.

Accommodation Information

A block booking of rooms at the Gulf Hotel has been made for the participants during the conference period. Following are the special rates. Please specify the conference name to get the special rate.

Conference Room Rates

Details	Single Rate		Double Rate	
	Bah. Din	US\$	Bah. Din	US\$
Superior Room	60	162	60	162
Deluxe Room	70	189	70	189
Luxury Room	75	203	75	203
Grand Deluxe Room	80	216	80	216
Platinum Room	100	270	110	297
Deluxe Suite	250	675	250	675
Luxury Suite	325	878	325	878

*The above room rates are subject to 15% service charge and 5% Government Levy.

A block booking of rooms at the Gulf Hotel has been made for the participants during the conference period. Following are the special rates. Please specify the conference name to get the special rate. For more information: www.energymanagement.bh

About Bahrain

The Kingdom of Bahrain is an archipelago of low lying islands located in the Arabian Gulf off the Eastern shore of Saudi Arabia. Frequently called the Pearl of the Arabian Gulf, Bahrain has a history of civilizations that date back more than 5,000 years. Bahrain is the ancient site of the immortal land of Dilmun, and was the religious centre to Sumerians, Babylonians and Assyrians, as proven by many archaeological excavations. Many legends surround the land – the multitude of ancient burial grounds here gave rise to the title "Isle of Eternity," before modern archaeology explained them as a legacy of Dilmun times; centuries upon centuries of human habitation packed into one compact site. From the mists of time to a vibrant present Bahrain thrives under a stable and prosperous government. Today, the modern Arabic name "Bah-rain" still retains this meaning – "two waters", it's landscape is a tapestry of marvelous old sites and colorful traditional markets dotted between modern skyscrapers and buildings. While relatively small in population, land area and resources, Bahrain has achieved a high level of social and economic development over a short period of time.

Entry Visa Information

For a short-term visa, please visit Website: www.bahrain.bh or check your eligibility from <https://www.evisa.gov.bh>

- All GCC Nationals are not required an entry visa to Bahrain.
- All other Nationals residing in GCC and have a valid Residence Permit in their respective countries for minimum 6 months will get an entry visa for Bahrain for a period of one week on arrival at the Bahrain Airport or Causeway.
- Nationals of some EU countries, Australia, Canada, Japan, New Zealand, Norway, Switzerland and USA may obtain visas on arrival for tourist or business stays of up to 2 weeks. If working for a media company (e.g. a newspaper or TV company) a special invitation from the Bahrain authorities is required.
- Some Europeans, Americans, Malaysians by birth are not required a visa in advance. They will get a one week visa at the Bahrain Airport Immigration counter. Please check you eligibility from here <https://www.evisa.gov.bh/VISA/VisalInput.jsp?AOS=a>
- All other nationals should send their passport copies to the Conference Secretariat at least one month prior to the conference for arranging their one week visa. There will be a fee for Visa Stamp and handling BD. 20 or US\$ 55 to be paid to the Conference Secretariat in advance through bank transfer or credit card/ mail order.



