



ORGANIZED BY:

**FLEMING GULF  
CONFERENCES**

VISIT OUR WEBSITE:  
[www.fleminggulf.com](http://www.fleminggulf.com)



*"Achieving excellence through integrated and effective sustainable waste management practices"*

# 6<sup>th</sup> Annual Waste Management ME Forum 2015

5 – 6 October 2015  
Dubai - UAE

## HIGHLIGHTS 2014

Organized under the support of the Dubai Municipality & Under the patronage of His Excellency **Dr. Rashid Ahmed Bin Fahad, Minister of Environment and Water UAE**

Supported by **IOSH & WSO**

**20 expert presentations** from leading industry professionals across GCC and Internationally.

**2 International case studies**

**3 GCC municipality/ Government body case studies**

SUPPORTED BY:



وزارة البيئة والمياه  
MINISTRY OF ENVIRONMENT & WATER

بلدية دبي  
DUBAI MUNICIPALITY



SUPPORTED BY

بلدية دبي  
DUBAI MUNICIPALITY



VISITING PARTNERS

**WM**  
WASTE MANAGEMENT

**AL DHAFRA  
RECYCLING  
INDUSTRIES**  
In partnership with Tadweer

MEDIA PARTNERS

**IHN** INDUSTRIAL  
HYGIENE  
NEWS  
safety - iaq - emergency response - instrumentation

**POLLUTION  
EQUIPMENT**



## DISTINGUISHED ADVISORY PANEL :

**Dr. Udayan Banerji**, Tadweer – Centre for Waste Management  
**Abu Dhabi**, Policies and Legislations specialist Policies &  
Strategic Planning Department

**Dr. Ali Awadh Al Amoudi**, Takreer, Senior Environmental  
Engineer

**Taghreed Al Hashimi**, Masdar, Project Delivery – Masdar City

**Abdulaziz Hussni Zurub**, Abu Dhabi City Municipality, Director,  
EHS Division Town Planning Sector

**Rehan Ahmed**, Supreme Council of Environment - Kingdom of  
**Bahrain**, Head of Waste Disposal

**Mohammad Ibrahim Mosa**, Environment Agency Abu Dhabi,  
Sr. Specialist, Hazardous Materials & Waste Policy & Regulations  
Environment Quality

**Yasin Al Ramahi**, Abu Dhabi Health Services Company (SEHA),  
Corporate Senior EHS Officer Corporate Support Services

## DISTINGUISHED SPEAKER PANEL :



**Deon Earle**, Qatar Aluminium Limited  
HSSE Manager

**Babu Krishnan**, Abu Dhabi Gas Liquefaction Company Ltd.  
(ADGAS), Environment Engineer

**Bhaskar Sinha**, Dubai Natural Gas Co (DUGAS)  
Head - HSE Department (Tentatively confirmed)

**Gagan Pattnaik**, Habtoor Leighton Group  
Environmental Manager

**Dr. Ghazi Elsayed Abdelkerim Ibrahim Elsherif**, 'Ashgal' Public  
Works Authority - Qatar, Environmental Expert - Quality Safety  
& Environment Dept

**Khalid Aqel**, Abu Dhabi Gas Industries Ltd GASCO  
Senior Environment Engineer

**Ijaz Ashraf**, The Bahrain Petroleum Company, (BAPCO)  
Advisor Environmental Affairs - HS&E Department - Bahrain

Representative Federal Environment agency Germany

Senior representative Singapore Environment Council

**N. Porchelvan**, Galfar Engg. & Contg. SAOG, HSE Manager -  
Muscat, Sultanate of Oman

**Khalid M. Alqahtani**, ARASCO  
HSSE Sr. Manager Kingdom of Saudi Arabia, Riyadh

Senior representative CNIM

## EVENT INFO:

T: +971 46091570 | F: +971 46091589 | E: madhura.gaikwad@fleminggulf.com

# KEY TOPICS:

- ◆ *Waste as a resource*
- ◆ *Building an effective waste management framework in the country*
- ◆ *Circular Economy in Waste Management*
- ◆ *Encouraging recycling of construction waste*
- ◆ *Developing people culture towards sustainable waste management*
- ◆ *Refinery waste management*
- ◆ *Recycling Hazardous waste*

## WHO SHOULD ATTEND:

CEO / Managing Director / Director / VP / GM and Managers of Sustainability, Directors and Managers of Environmental Policies, Health and Safety Officers, Developers and Building Constructors, Facility Owners/ Operators Suppliers, Industry Experts & Professionals, Environmental Managers & Practitioners, Chemical and Petrochemical Processing Professionals, Waste Management & Recycling Professionals, Water Management Professionals, Doctors & Health Care Practitioners, Industrialists and Manufacturers, Property Managers, Architects, Project Managers of Building Facilities, Scientists & Researchers, Research and Development, Innovation Managers, Engineers, Consultants, Academicians, Policy makers, Senior Governmental Representatives and Administrators

## INDUSTRIAL SPLIT:

Government and Environment Agencies, Municipal Authorities, Waste Management & Control Authorities, Environmental NGOs, Sustainable Energy Companies, Oil & Gas Companies, Real Estate & Construction, Industrial Plants, Waste Processing & Service Companies, Engineering Services, Consultancy and Design Offices, Environmental Management Organizations, Research Organizations /Universities, Government & Private Hospital & Health Care Facilities/Authorities, Nuclear Energy Corporations/ Authorities

## EVENT INFO:

T: +971 46091570 | F: +971 46091589 | E: [madhura.gaikwad@fleminggulf.com](mailto:madhura.gaikwad@fleminggulf.com)



With the success of this environmental forum over the past 5 editions, Fleming Gulf brings to you the **6<sup>th</sup> Annual Edition of the Waste Management Middle East Forum**. Environmental protection has become an increasingly important item on the social and economic policy agenda for Middle East nations. At this forum we shall discuss the current issues inhibiting the outreach of local efforts and possible means of overcoming them. Reflecting upon some of environmental initiatives emerging in the Middle East and the GCC region, the forum will also feature case studies and panels to debate the current policies and to render them effective.

The event shall extend a platform for studying and updating the regional waste and environment professionals on various new technologies and system specifications adopted in different countries and gulf regions and thus help seek to find economically feasible and sustainable solutions for the environment sector and selection of technologies /systems that are most adaptable to suit the local conditions. Thus empowering the to meet the various environmental challenges existing locally and globally.

# DAY I

5<sup>th</sup> OCTOBER 2015



## 8.00 REGISTRATIONS & COFFEE



## 8.40 WELCOME NOTE FROM FLEMING GULF

## 8.50 OPENING REMARKS FROM THE CHAIRMAN

### Accelerating waste reduction efforts in the region

#### 9.00 Waste as a resource

- Efficiently converting Municipal solid waste into energy and fuels
- Advanced thermal technologies that can be considered such as gasification and pyrolysis
- Optimal waste and natural resource utilisation methods to promote waste reduction at source.

Reserved for government authorities

#### 9.40 Developing people culture towards waste reduction

- Key learnings from the Singapore success story in becoming the clean and green nation
- Policy and Social Pressure
- The Role of the Creative Coalition

Senior representative Singapore Environment Council

## 10.20 COFFEE BREAK



#### 10.50 Risk Management of Waste

**Bhaskar Sinha**, Dubai Natural Gas Co (DUGAS), Head - HSE Department (Tentatively confirmed)

#### 11.30 CASE STUDY: Solid waste management initiative by ASHGAL

**Dr. Ghazi Elsayed Abdelkerim Ibrahim Elsherif**, Ashgal' Public Works Authority - Qatar, Environmental Expert - Quality Safety & Environment Dept

### Proactive measures for effective waste treatment

#### 12.10 Design and production of waste treatment plants

- Adapting with evolving clean technologies
- Meeting the standards for performance and control of environmental impacts

Senior representative CNIM

## 12.40 LUNCH BREAK



#### 14.00 Waste management: key lever of circular economy

- Requires changes throughout value chains, from product design to new business and market models, from new ways of turning waste into a resource to new modes of consumer behaviour

- Developing a strong business case for improving resource productivity
- Setting up an enabling policy framework
- Support design and innovation for a more circular economy
- Unlocking investment in circular economy solutions

For sponsorship enquiries, please contact John Paul at john.paul@fleminggulf.com, + 91 97311 83803

#### 14.40 PANEL DISCUSSION: Building an effective waste management framework in the country

- Developing more consistency in policies and guidelines
- Communicating regulations more clearly
- Effective enforcement of regulations by government authorities

##### **Panellists**

Senior representative Singapore Environment Council  
**Dr. Ghazi Elsayed Abdelkerim Ibrahim Elsherif**, 'Ashgal' Public Works Authority - Qatar, Environmental Expert - Quality Safety & Environment Dept

#### 15.20 Organic waste technology for onsite

- Identifying appropriate on-site processing technologies that are suitable for processing specific materials
- Evaluating existing and new on-site technologies regarding performance, advantages and disadvantages
- Understanding requirements for operating a system in an efficient manner with the objective of converting compostable organic materials generated on-site into useful recycled organics products.

For sponsorship enquiries, please contact John Paul at john.paul@fleminggulf.com, + 91 97311 83803

## 16.00 COFFEE BREAK



#### 16.30 Emission and waste prevention approach at GASCO

- Reducing gas flaring and air emissions as priority
- Water management strategies
- Aiming toward Zero Garbage

**Khalid Aqel**, Abu Dhabi Gas Industries Ltd GASCO  
Senior Environment Engineer

#### 17.00 PANEL DISCUSSION: Raising awareness on composting benefits

- Encouraging programs that will promote and boost composting efforts among institutions, organizations and individuals,
- Highlighting composting as an attractive source of income

##### **Panellists**

**Khalid Aqel**, Abu Dhabi Gas Industries Ltd GASCO  
Senior Environment Engineer

## 17.30 CLOSING REMARKS FROM THE CHAIRMAN

## 17.40 COCKTAIL & NETWORKING RECEPTION

# DAY II

6<sup>th</sup> OCTOBER 2015



## 8.30 REGISTRATIONS & COFFEE



## 8.50 OPENING REMARKS FROM THE CHAIRMAN

### Upcoming developments in the Waste to Energy sector

#### 9.00 Refuse-Derived Fuel

- Experiences in producing RDF from various waste streams such as MRF residues, MSW and C&D debris
- Developing engineered fuels to meet end-user specifications and avoid contaminants and pollutants

**Representative** Federal Environment Agency Germany

#### 9.40 PANEL DISCUSSION: Understanding the Economics of Waste Conversion

- Assessing the feasibility of waste conversion technologies including start-up costs, determining processing/tip fees
- Overview of the competition from traditional fuels
- Financing options that can be made available

##### Panelists

**Representative** Federal Environment Agency Germany  
**Deon Earle**, Qatar Aluminium Limited, HSSE Manager

## 10.20 COFFEE BREAK



#### 10.50 Anaerobic digestion

- Understanding potentials of various end uses of biogas
- the use of biogas as a transportation fuel increases
- lesser labor intensity in production compared to other renewable energy production

*For sponsorship enquiries, please contact John Paul at john.paul@fleminggulf.com, + 91 97311 83803*

#### 11.30 Having a tight knit waste to energy mechanism to enhance the gains from the process

- With a well executed waste-to-energy plant air pollution is negligible.
- Waste to Energy - well-managed mechanism can reduce up to 90 per cent of waste going to the landfill
- A carefully controlled plant fire; allowing the exit air to pass through a series of separators can eliminate the release of harmful gases to the environment

*For sponsorship enquiries, please contact John Paul at john.paul@fleminggulf.com, + 91 97311 83803*

### Developing a long term perspective towards recycling

#### 12.10 Upcoming metal recovery technologies

- Comparison between different technologies
- Outlook for the metal recycling market in the middle east

**Deon Earle**, Qatar Aluminium Limited, HSSE Manager

## 12.50 LUNCH BREAK



#### 14.00 Encouraging recycling of construction waste

- Encouraging government investments in modern and efficient construction waste recycling facilities
- Encouraging legislation to ban dumping construction waste in landfills
- Increasing awareness of the performance of recycled material and to build building trust through third party independent testing of the performance of recycled material.

- Increasing the demand for recycled construction – pushing the need for the use of a certain percentage of recycled material in all new construction projects

**Gagan Pattnaik**, Habtoor Leighton Group  
Environmental Manager

#### 14.30 Management of Hazardous Waste Bapco Approach

- Waste Management Projects in Bapco, challenges & solutions
- Ijaz Ashraf**, The Bahrain Petroleum Company (BAPCO)  
Advisor Environmental Affairs HS&E Department - Bahrain

#### 15.00 CASE STUDY : Overcoming challenges in Hazardous & Non Hazardous Waste management

- Current waste management practices
- Challenges in waste management
- Recuse / recycling of wastes
- Improved logistics management
- Enhancement of facilities for temporary storage
- Qualified contractors to ensure proper waste management
- Close monitoring of waste management activities

**Babu Krishnan**, Abu Dhabi Gas Liquefaction Company Ltd. (ADGAS), Environment Engineer

## 15.30 COFFEE BREAK



#### 16.00 Promoting the sustainability culture

- Management options for various types of wastes
- Challenges to sustainability; People issues that promote waste generation and hinder sustainable management
- Raising public awareness & enforcing better practices commitment to sustain

**N. Porchelvan**, Galfar Engg. & Contg. SAOG  
Manager HSE, Muscat - Sultanate of Oman

#### 16.30 Proactive measure required for effective prevention of rising food wastage in the gulf

- Encouraging usage of food disposal machines
- Initiatives by ARASCO
- Required shift in public psychology

**Khalid M. Alqahtani**, ARASCO  
HSSE Sr. Manager Kingdom of Saudi Arabia, Riyadh

#### 17.20 PANEL DISCUSSION: Foster a recycle-friendly atmosphere

- Developing an effective channel for disseminating information about recycling practices
- Cultivating a sense of responsibility or pride with recycling
- Incentivizing recycling and creating public recognition programs as a motivational factor
- Making waste reporting mandatory hotels, shopping malls etc

##### Panelists

**Gagan Pattnaik**, Habtoor Leighton Group  
Environmental Manager

**Ijaz Ashraf**, The Bahrain Petroleum Company (BAPCO)  
Advisor Environmental Affairs HS&E Department - Bahrain

**Babu Krishnan**, Abu Dhabi Gas Liquefaction Company Ltd. (ADGAS), Environment Engineer

**N. Porchelvan**, Galfar Engg. & Contg. SAOG, Manager HSE  
Muscat - Sultanate of Oman

## 17.50 CLOSING REMARKS FROM THE CHAIRMAN

# SPONSORS



## Visiting Partner

### Waste Management Inc.

Waste Management is the leading provider of comprehensive waste management and recycling brokerage services. Through its subsidiaries, the company provides collection, transfer, recycling and resource recovery, and disposal services to residential, commercial, industrial and municipal customers throughout North America. It is also a leading developer, operator and owner of landfill-gas-to-energy facilities in the United States. The company serves nearly 20 million customers through a network of 367 collection operations, 355 transfer stations, 273 active landfill disposal sites, 16 waste-to-energy plants, 134 recycling plants, and 111 beneficial-use landfill gas projects. Waste Management Sustainability Services provides innovative and practical sustainability expertise using a „Triple Bottom Line“ approach to help you think beyond simple waste and recycling programs to provide holistic, long-term, and comprehensive environmental management solutions that address your organization's sustainability needs. We work internationally with large companies, governments and sporting venue to further their sustainability goals and help establish Integrated Solid Waste Management Plans. Working collaboratively with International clients we are able to leverage our extensive experience and expertise to design, develop and help execute efficient and effective MSW, hazardous waste and recycling programs. Additionally, our Advisory Service group can provide “gap analysis” services and design strategies and Standard Operating Procedures to improve and streamline operations.



## Visiting Partner

### Al Dhafra Recycling Industries

Al Dhafra Recycling Industries is responsible for the processing of construction and demolition materials across the Emirate of Abu Dhabi. In partnership with Tadweer, the facility processes material to produce recycled products suitable for use as road base aggregates and structured & non-structured backfill projects. Al Dhafra Recycling Industries' recycling facility can process between 5000 and 7000 tonnes of material per shift. Has the capacity, resources and expertise to design, build and operate numerous resource recovery projects via the collection, tracking and processing of construction and demolition materials. All materials sent to the recycling plant are inspected for suitability before processing. Metals and other non-suitable materials are extracted before the construction and demolition material is diverted to the processing plant. Following additional product testing by third party independent laboratories, well-graded recycled material (~37mm) is produced, which is used for road-base, sub-base, structural fill, trench bedding, hardstand and low-dust asphalt products. All recycled material produced at Al Dhafra Recycling Industries is 100% recycled crushed aggregates. Use of recycled crushed aggregates also achieves:

- Estidama ratings for Estidama-rated projects
- Reduction in waste to landfill
- Reduced greenhouse impact
- Reduced reliance on natural resources