

# Executive Master in Energy Management 2010-2011

A joint part-time programme between  
BI Norwegian School of Management,  
ESCP Europe and IFP School



# Executive Master in Energy Management

OBJECTIVES OF THE PROGRAMME ARE TO:

- Understand the energy business environment and its fundamental economic and technological concepts
- Gain an in-depth understanding of energy technologies, industries and markets
- Develop and implement strategies to address major issues in energy regulation and policy
- Focus on managerial issues and resources related to the energy industry

## The world of Energy – a global challenge

*The Executive Master in Energy Management programme is offered in partnership by BI Norwegian School of Management in Oslo, Norway and ESCP Europe and IFP School in Paris, France. The three partner schools are linked to the energy industry and offer their graduates an education that combines the latest research and theory with real-life exposure.*



**Professor Emmanuel Hache,**  
IFP School, Director of the Petroleum  
Economics and Management programme,  
specialist in commodities markets.

**Professor Patrick Gougeon,**  
ESCP Europe member of the Finance  
department specialist in project finance  
and risk management.

**Professor Øystein Noreng,**  
BI Norwegian School of Management, researcher  
and advisor to international organisations,  
governments and oil and gas companies.



## Programme Focus and Learning Outcomes

### Programme focus

The programme responds to significant changes in the energy industry due to the growing demand for energy across the world. It addresses the challenges of additional investments and new technological solutions in line with environmental policy. Emphasis is also placed on the importance for companies to develop a comprehensive and strategic view on energy issues that pays particular attention to the production, transportation and the use of energy.

In view of the lack of professional education in energy management at both corporate and government levels especially in emerging economies such as Asia, Latin America, Eastern Europe, Russia and the former Soviet Republics, the programme will provide the skills and expertise required in the areas of energy economics, management and policy.

### DISTINGUISHING FEATURES

- A flexible part-time programme that enables candidates to combine executive studies with a full-time job
- Developed in cooperation with leading companies and institutions in the field
- Focus on corporate issues and professional skills
- A truly international, cross-cultural learning environment that provides excellent networking opportunities
- Interactive learning environment, with a focus on personal and leadership development
- An opportunity to develop research and consultancy skills

### PROGRAMME CONTENT

The programme lasts for 12 months and includes 4 two-week modules that are delivered between September and June the following year.

#### • General management courses

Provide the participant with management expertise in the field of economy, strategy and finance. These courses are integrated in the programme.

#### • Energy core courses

Provide the participant with specific skills in energy fundamentals, technologies, industries and markets, policies and strategies as well as managerial issues.

#### • Consultancy project

The project is an integral part of the programme in order to allow participants to apply knowledge and skills acquired during the programme to a real-life business situation. The project is a team effort and runs over a period of one year.

### CONSULTANCY PROJECT

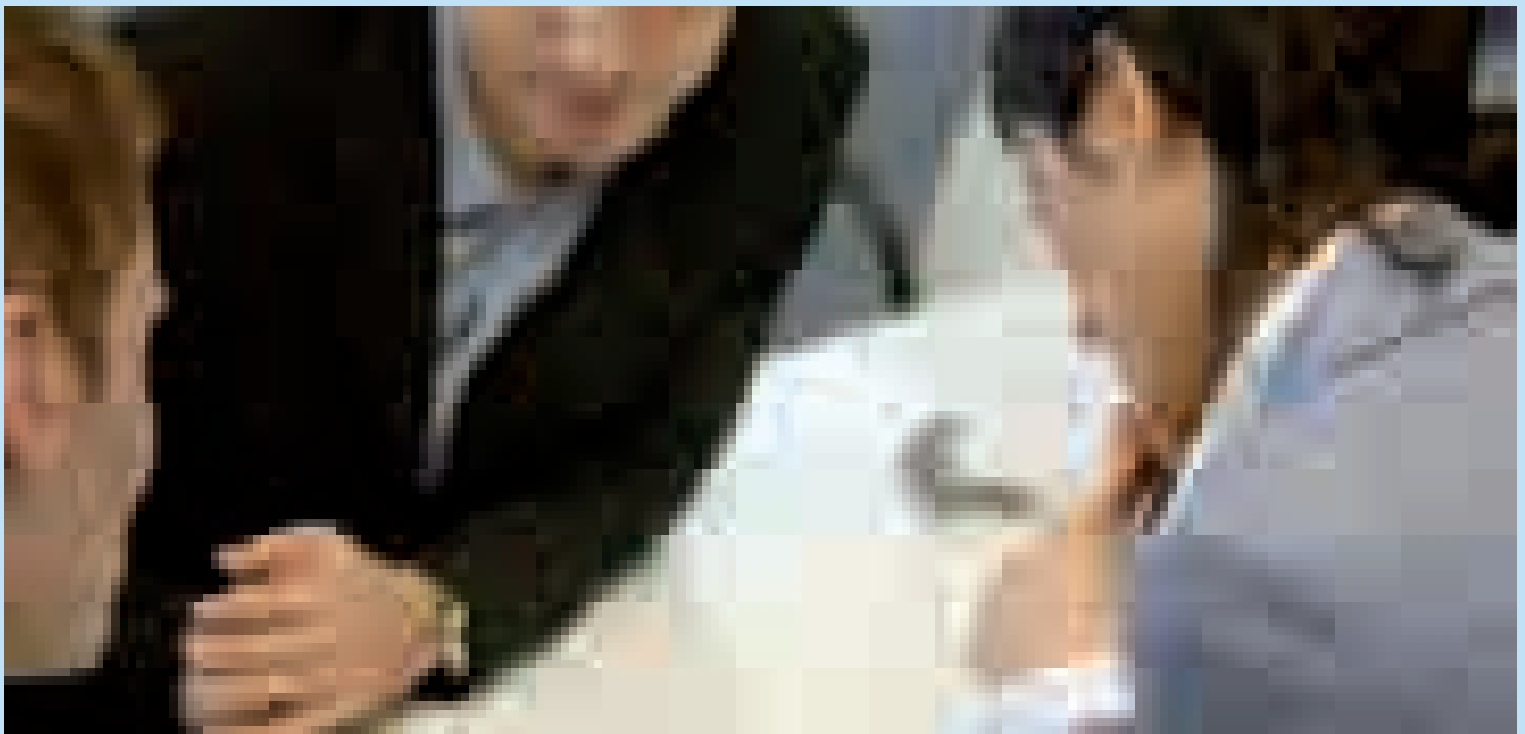
The consultancy project is a key element and the highlight of the programme. It is a truly integrative learning experience which enables participants to explore a specific energy topic in depth and act as advisors who provide real-life, articulate and actionable decisions input. All the various threads of the programme come together here, and a new dimension is added to the interaction between participants and faculty.

The project is a group effort with 3 or 4 participants working together on a chosen energy related theme. It is supervised by a company representative who ensures that the company's objectives and guidelines are adhered to, as well as by a professor from one of the institutions whose role is to validate the academic aspects. The project consists of a written report and an oral presentation that are submitted at the end of the programme.

### CASE STUDIES

During the programme, participants will work on different case studies that focus on real-life energy-oriented issues.

The case studies require that participants utilise work experience, class discussions and relevant theories acquired in the programme to resolve the issues at hand.



## Programme Structure

Module	Date	Venue	Course	Consultancy Project
1	13th – 25th September 2010	BI Oslo	<b>FUNDAMENTALS IN ENERGY MANAGEMENT</b> Objective: To understand the energy business environment and to master key economic and technological concepts  <b>Courses/Topics</b> <ul style="list-style-type: none"> <li>• Energy economics</li> <li>• Energy geography &amp; geopolitics</li> <li>• Energy technology and the environment</li> <li>• Economics for Managers (General Management)</li> <li>• Essentials in corporate finance (General Management)</li> </ul>	Identification
2	15th – 27th November 2010	IFP School Paris	<b>ENERGY TECHNOLOGIES, INDUSTRIES AND MARKETS</b> Objective: To provide an in-depth knowledge of each energy domain, e.g. stakeholders, costs, value chain and markets  <b>Courses/Topics</b> <ul style="list-style-type: none"> <li>• Electricity</li> <li>• Energy markets and trading</li> <li>• Primary non renewable energies (i.e. oil &amp; gas, coal)</li> <li>• Renewables</li> </ul>	Definition
3	21st Feb – 5th March 2011	BI Oslo	<b>ENERGY POLICIES &amp; STRATEGIES</b> Objective: To understand the major issues in energy regulation and policy and to develop appropriate corporate strategies  <b>Courses/Topics</b> <ul style="list-style-type: none"> <li>• Energy companies: strategic challenges</li> <li>• Energy policy: country case studies</li> <li>• Global perspective in energy policy</li> <li>• Essentials in corporate strategy (General Management)</li> </ul>	Development
4	6th – 18th June 2011  Presentation of Consultancy Project and Graduation: Week 39	ESCP Europe Paris	<b>ENERGY COMPANIES: MANAGERIAL ISSUES</b> Objective: To focus on key managerial issues concerning human resources, project development, risk management, social responsibility  <b>Courses/Topics</b> <ul style="list-style-type: none"> <li>• Energy project and supply chain management</li> <li>• Environmental management</li> <li>• Project evaluation and financing</li> <li>• Risk management</li> </ul>	Completion

*The programme is subject to change at the discretion of the three participating institutions. This brochure does not form part of any contract between any person and any of the three participating institutions.*

# Practical Information

## TARGET GROUPS

The programme is intended for those familiar with the energy industry as well as participants aspiring to work in the energy field. It is profession oriented and designed to give participants a comprehensive understanding of key energy issues and improve their analytical and managerial skills. The programme's objective is to educate and train managers specifically for the energy sector by providing them with state-of-the-art knowledge and insight into this rapidly changing industry.

## PARTICIPANT PROFILE

4 intakes; 2006, 2007, 2008, 2009

- Participants: 125
- Nationalities: 33, 70% international candidates
- Female/Male: 30% / 70%
- Average Age: 36
- Age range: 25-50
- Average years of work experience: 9 years

### Educational Backgrounds

- Engineering/Scientific: 70%
- Business/Economics: 20%
- Humanities and other: 10%

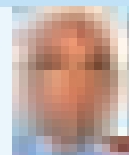
## ADMISSION REQUIREMENTS

- A bachelor's degree or equivalent
- 3- 4 years of work experience
- 2 letters of recommendation
- Fluency in English
- An interview

## QUICK FACTS

- **Campus:** BI Norwegian School of Management, Oslo, Norway, ESCP Europe and IFP School in Paris, France
- **Language of instruction:** English
- **Length of programme:** 12 months part-time, module based
- **Yearly intake:** 35 participants
- **Application deadline:** Rolling admission
- **Start date:** 13th September 2010
- **Tuition fee:** EUR 25,000

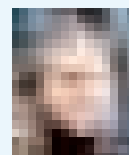
*Name: Abdallah Awara  
Nationality: Egyptian – Canadian  
Class: 2008/2009  
Current job: Director - Europe and FSU region  
Company : Expro International-a leading up-stream service company, Aberdeen, UK*



*I was looking for a Master programme that focused on Energy management with an intensive but flexible schedule. Coming from an engineering and operations background, my main aim was to acquire the fundamentals of corporate finance, managerial economics, and to enhance my strategic and analytical skills. The fact that the programme contains modules that cover all forms of energy, is organised by world class schools and is flexible made it an excellent match for my objectives.*

*I am proud to be in 2008/09 class. It is a very creative and qualified international group of more than 20 nationalities with diversified backgrounds; this in fact made the group work and cross-cultural learning a very positive experience. The speed of the market events during the first 2 modules in Oslo and Paris, where we discussed real cases as they were happening added a unique value to our class. The professors brought a wealth of academic knowledge, experience and wisdom.*

*Name: Marissa Jackson Ræstad  
Nationality: Norwegian – American  
Class: 2007/2008  
Current job: Senior Business Developer  
Company: Scatec Solar AS - a global system integrator for solar photovoltaic power plants, Oslo, Norway*



*The profile of the Executive Master of Energy Management (EMEM) immediately caught my attention. At the time I was working as the director of an EU affairs consultancy in Brussels and the combination of a business and management education with such a politically relevant topic as energy was just what I was looking for.*

*For the consultancy project I wanted to combine my three favorite topics – environment, development and business – by looking at how renewables can be deployed in the developing world and generate business value for the private sector. This culminated in a study for Scatec Solar on economic models for community solar power plants in rural India. Today I work for Scatec Solar developing rural electrification projects in India and beyond.*

*The EMEM course was a unique and fantastic educational experience not least thanks to all the dedicated and inspiring participants of our class. With 30 participants from 18 countries, all with different professional backgrounds, the EMEM course is a truly diversified and international experience.*

Further information:  
Phone: + 47 46 41 00 04  
Email: [energy@bi.no](mailto:energy@bi.no)  
[www.bi.no/master/energy](http://www.bi.no/master/energy)

### BI NORWEGIAN SCHOOL OF MANAGEMENT

- Among Europe's largest business schools.
- Has one of Europe's largest faculty in the areas of economy, business administration and marketing.
- Provides research-based knowledge and highly competent graduates who contribute to better practises in private and public enterprises.
- EQUIS accredited in 1999, and reaccredited in 2004.

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[www.bi.no/master/energy](http://www.bi.no/master/energy)

### IFP SCHOOL

- IFP is a world-class public-sector research and training center, aimed at developing the technologies and materials of the future in fields of energy, transport and the environment.
- Open to university graduates from all over the world, the School offers a very broad range of training in the professions of the petroleum, gas and engines sectors.
- Taking advantage of the synergies between research and training, IFP plays a major role in the transfer of knowledge through the IFP School.
- 12 000 alumni working in over 100 countries.

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[www.ifp-school.com](http://www.ifp-school.com)

### ESCP Europe

- 5 campuses in Europe: Paris, London, Berlin, Madrid, Turin.
- 3,500 students in degree programmes representing 90 nationalities.
- Nearly 3,000 graduate participants from over 80 countries across the five campuses.
- ESCP Europe is AACSB, EQUIS, AMBA, and AMBA/PEMM accredited.

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