MINING INSTITUTE OF SCOTLAND

– WHICH WAY FORWARD?

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2011/2012 Presidential Presentation
Agenda

• Background Introduction
• Energy Futures
• Key Challenge – Capacity Building
• MIS Challenges
• Way Forward
  ❖ Council Reform
  ❖ Young Professionals
  ❖ Technical Programmes
GLOBAL ENERGY DEMAND

Source: IEA, 2005
Global Oil Demand

Oil-production capacity additions & demand growth to 2015

Current projects will add 23 mb/d of capacity by 2015 – assuming no new delays – so 7 mb/d of extra capacity will need to be sanctioned very soon to avert a supply crunch
EXAMPLES OF ENERGY DEMAND

Source: DTI, 2006
GLOBAL GAS DEMAND

Global Natural Gas Demand

Source: EIA International Energy Outlook 2010
WORLD GAS CONSUMPTION

Figure 36. World natural gas consumption 2007-2035 (trillion cubic feet)
## Changes in Gas Production

<table>
<thead>
<tr>
<th>Region</th>
<th>Change in World Natural Gas Production (trillion cubic feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle East</td>
<td>15</td>
</tr>
<tr>
<td>Non-OECD Asia</td>
<td>10</td>
</tr>
<tr>
<td>Africa</td>
<td>5</td>
</tr>
<tr>
<td>Non-OECD Europe/Eurasia</td>
<td>5</td>
</tr>
<tr>
<td>Central/South America</td>
<td>3</td>
</tr>
<tr>
<td>United States</td>
<td>2</td>
</tr>
<tr>
<td>Australia/New Zealand</td>
<td>1</td>
</tr>
<tr>
<td>Other OECD</td>
<td>-5</td>
</tr>
</tbody>
</table>
• SECURE AND SUSTAINABLE ENERGY

• HUMAN RESOURCE
  ✤ LIMITED SKILLED MANPOWER
  ✤ AGEING WORKFORCE
    ➢ “RIPs [Retired & Retiring Industry Professionals]
SUMMARY OF GLOBAL WORK FORCE

- Limited Good Project Managers
- Extremely few Skilled Deepwater and Subsea Technology Manpower
- Average Age: 48 to 52 Years
- Premium Price
WAY FORWARD – THE MARKER

To Promote Capacity Building for Sustainable Energy

- Council Reform
- Fit-For Purpose Technical Sessions
- Young Professionals Programmes
- Aggressive Recruitment of Young Professionals
Secure Sustainable Energy

Drivers
- Areas of application
- Enablers
- Facilitators?

Capacity Building & Development

GOVERNMENT

FIT FOR PURPOSE SEMINARS
YOUNG PROFESSIONALS PROGRAMME
CPD PROGRAMMES
YOUNG MEMBERSHIP DRIVE

INDUSTRY

PROFESSIONAL BODIES

MIS

Smart Energy

Secure Sustainable Energy

FIT FOR PURPOSE
- SEMINARS
- YOUNG PROFESSIONALS PROGRAMME
- CPD PROGRAMMES
- YOUNG MEMBERSHIP DRIVE

Intelligent Energy

Sustainability

Secure Sustainable Energy

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INDUSTRY

PROFESSIONAL BODIES

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Drivers
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YOUNG PROFESSIONALS PROGRAMME
CPD PROGRAMMES
YOUNG MEMBERSHIP DRIVE

INDUSTRY

PROFESSIONAL BODIES

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GOVERNMENT

FIT FOR PURPOSE SEMINARS
YOUNG PROFESSIONALS PROGRAMME
CPD PROGRAMMES
YOUNG MEMBERSHIP DRIVE

INDUSTRY

PROFESSIONAL BODIES

MIS

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Secure Sustainable Energy

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GOVERNMENT

FIT FOR PURPOSE SEMINARS
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COUNCIL REFORM

• 1\textsuperscript{st} VICE PRESIDENT IN 2012
  ➢ ALEX CROSSLAND
  ➢ TECHNICAL PROGRAMME DIRECTOR

• 2\textsuperscript{nd} VICE PRESIDENT IN 2012?
  ➢ BERAN
  ➢ YOUNG PROFESSIONALS PROGRAMME DIRECTOR
TECHNICAL PROGRAMMES

• HYBRID OF TECHNICAL PROGRAMMES
  ❖ ENERGY FOCUSED

• NEED FOR SEPARATE YP PROGRAMMES DESIGNED BY YPs?

• UNIVERSITIES BP SEMINAR
  ❖ RGU/ABU
  ❖ ST ANDREWS?
  ❖ HERIOT-WATT?
• CRAIG DURHAM
  ❖ IMMEDIATE PAST PRESIDENT

• PD & E DIVISION TEAM SUPPORT
THANK YOU FOR THE HONOUR
COUNTING ON YOUR SUPPORT
AND CONTRIBUTION
LONG LIVE MIS/IOM³
PRESIDENTIAL NIGHT OUT

• LIGHT OF BENGAL