

Dual Energy Policy –

Natural Gas, Environmental Effects Vs. Renewable Energy

Important Aspects in the Agreements System

**Including Environmental Risk
Assessment in the Gas Exploration**

Topics

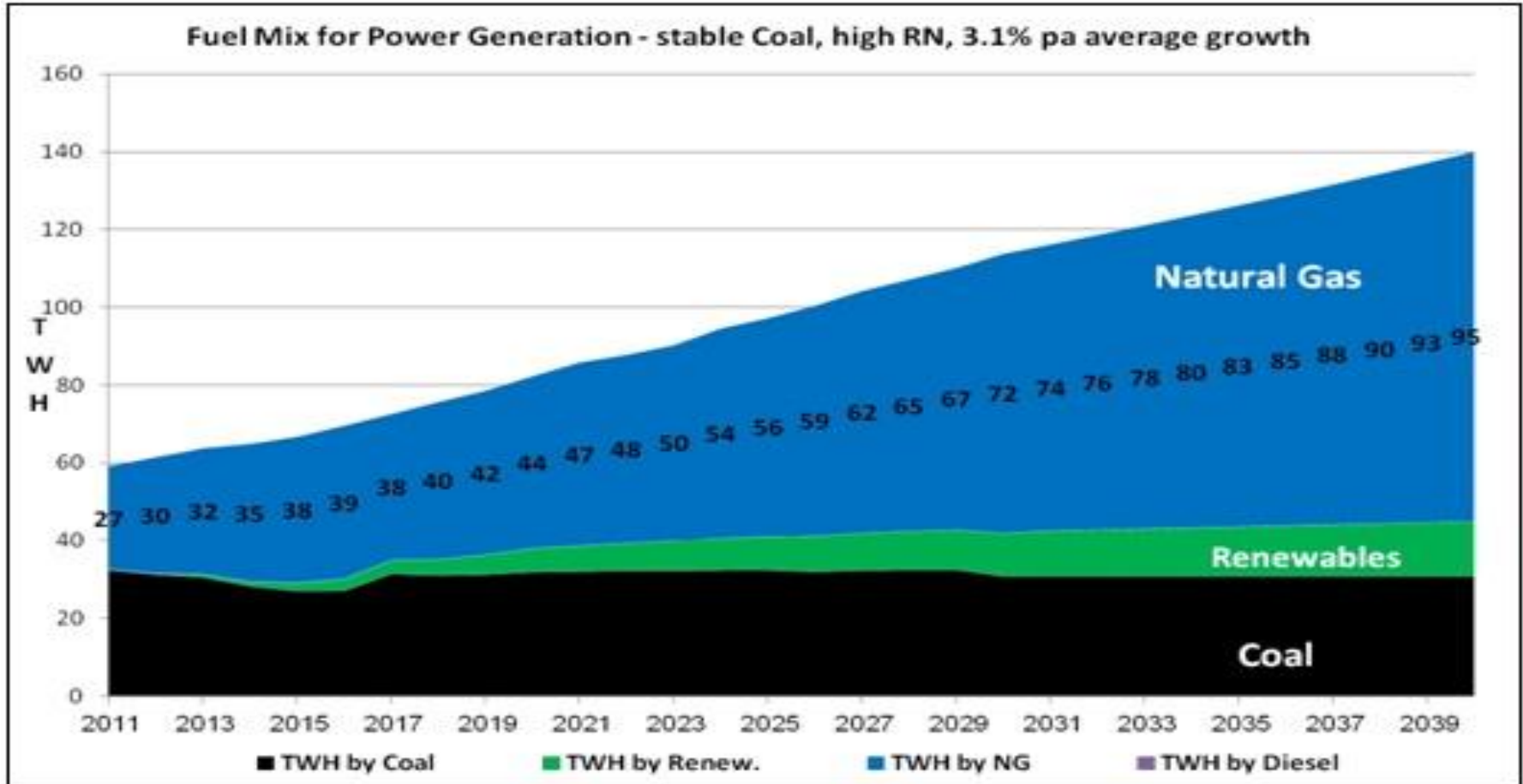
- ✓ Renewable Energy
- ✓ Expected Fuel Mix
- ✓ Petroleum Rights.
- ✓ Natural Gas Demand.
- ✓ Oil and Gas Explorations - Environmental Potential Impacts.
- ✓ Israeli Environmental Regulation.
- ✓ Foreign Environmental Regulation – UK as an Example.
- ✓ Joint Operating Agreements.
- ✓ Natural Gas Overall Chain Supply
- ✓ Safety & Environmental Risk Assessment Program approach.

Renewable Energy

- Advantages and Barriers.
- Current National Policy and Demand Projection.

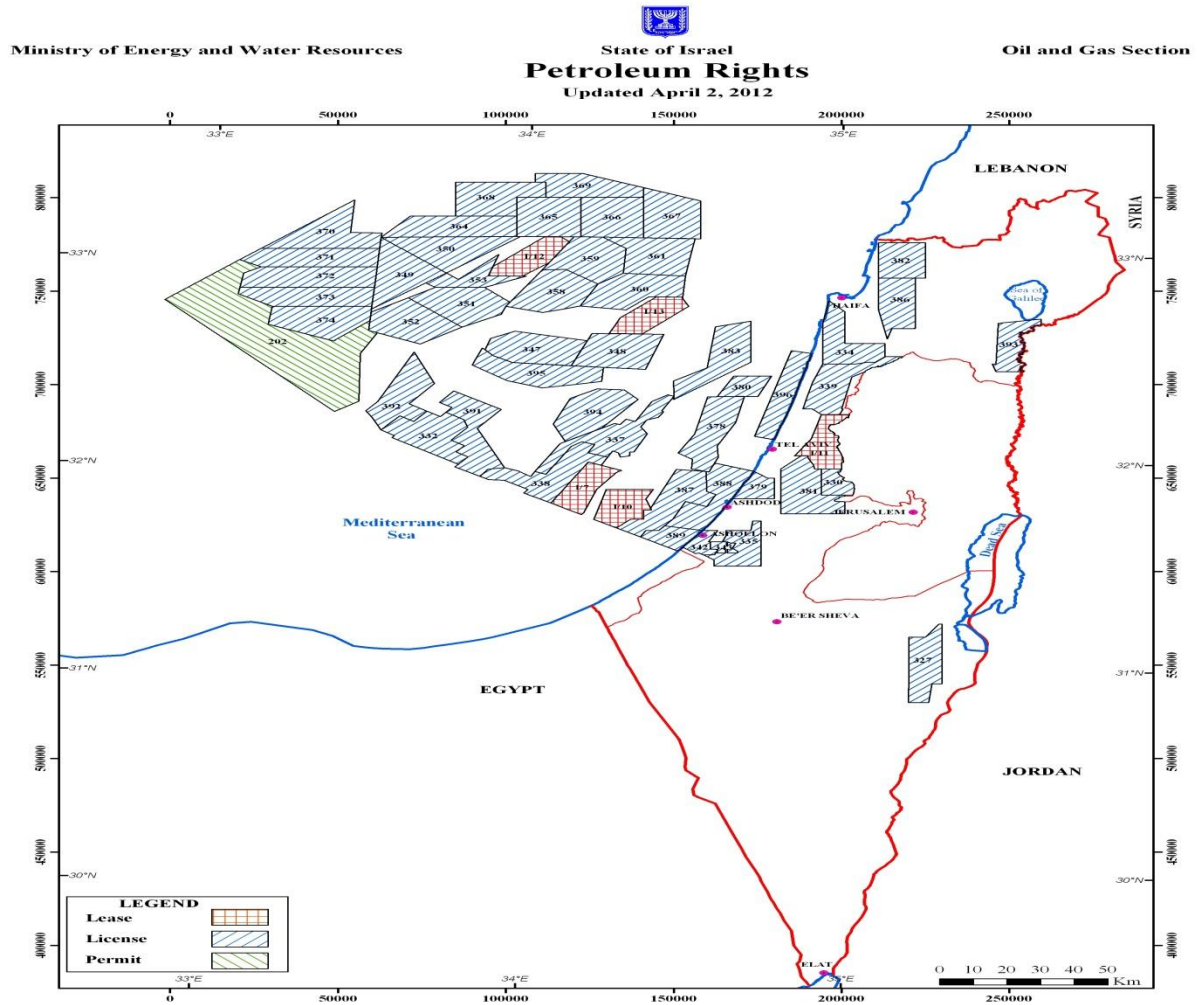


Expected Fuel Mix



from MEWR website

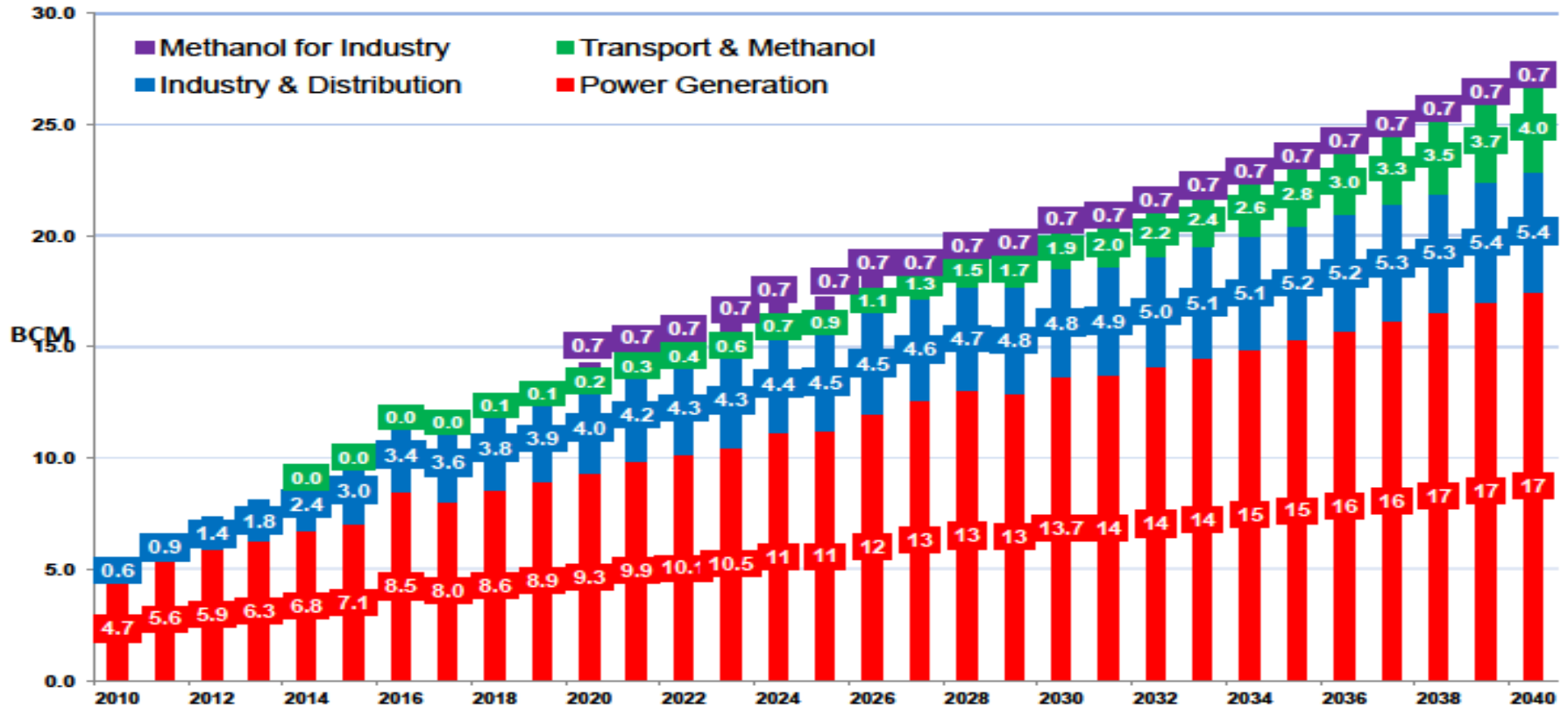
Petroleum Rights



from MEWR website

Natural Gas Demand

Israel NG Demand Forecast, Orot Rabin Converted, 10% Renewables by 2030



from MEWR website

Environmental Potential Impacts

- Although Natural gas considered as a clean energy source, it has to be handled carefully, to avoid environmental effects as:
 - Effects on the Marine Biology
 - Marine and Shoreline Pollution
 - Hazardous Material Incidents
 - Hazardous Wastes and Wastewater produced
 - Air Emission, Flaring
 - Noise Nuisance



Israeli Environmental Regulation

- **Ministry of Energy and Water Resources :**
 - Petroleum Law, 1952 and it's derived Regulation including The latest Petroleum Regulations (Authorization to Deviate from the Provisions of the Planning and Building Law), 2012.

- **Ministry of Environmental Protection?**
 - Prevention of Sea Pollution legislation, Hazardous Material Legislation , Clean Air Act and Other.

UK – Oil & Gas Env. Offshore Reg.

LEGISLATION AND GUIDANCE

From this page you can access information and guidance about environment legislation that affects oil and gas explorers and developers.

You can also download relevant forms and application notes as required.

Please direct all enquiries about the guidance and legislation to either of the following teams:

- Environmental Mangement Team – emt@decc.gsi.gov.uk or
- Offshore Inspectorate – offshore.inspectorate@decc.gsi.gov.uk



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QUICK LINKS

- [The Energy Act 2008 \(Consequential Modifications\) \(Offshore Environmental Protection\) Order 2010](#)
- [The Energy Act 2008 \(Consequential Modifications\) \(Offshore Environmental Protection\) Order 2010](#)

Offshore Environment Unit

Legislation and guidance

[Consent to Locate Under Part 4A of the Energy Act 2008](#)

[Offshore Petroleum Production and Pipelines regulations](#)

[Offshore Installations \(Emergency Pollution Control\) Regulations 2002](#)

[EU Emissions Trading Scheme 2005](#)

[Food and Environmental Protection Act 1985](#)

[Offshore Petroleum Activities \(Conservation of Habitats\) Regulations](#)

[Offshore chemicals regulations](#)

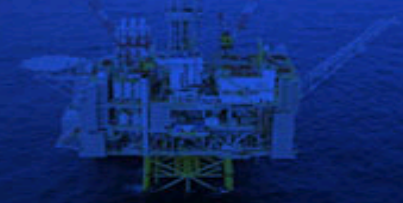
[REACH Enforcement Regulations 2008](#)

[Merchant Shipping \(Oil](#)

ENVIRONMENT LEGISLATION

- [Consent to Locate Under Part 4A of the Energy Act 2008](#)
- [The Energy Act 2008 \(Consequential Modifications\) \(Offshore Environmental Protection\) Order](#)
- [Offshore Petroleum Production and Pipelines regulations](#)
- [Offshore Installations \(Emergency Pollution Control\) Regulations 2002](#)
- [EU Emissions Trading Scheme 2005](#)
- [Food and Environmental Protection Act 1985, part II](#)
- [Offshore Petroleum Activities \(Conservation of Habitats\) Regulations](#)
- [Offshore chemicals regulations](#)
- [REACH Enforcement Regulations 2008](#)

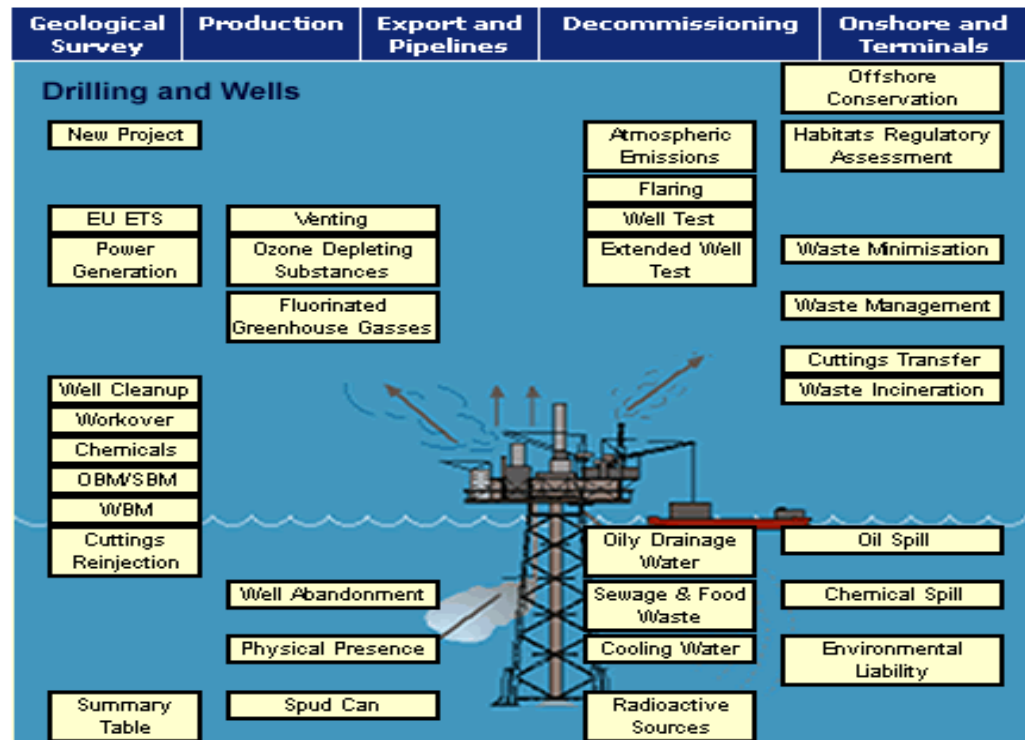
UK – Oil & Gas Env. Offshore Reg.



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Take me straight to the environmental compliance summary table for ...

Please Select



Joint Operating Agreements

- Good International Petroleum Industry Practice.
- SHE programs implemented by the Operator and reviewed periodically.
- Annual audits by the parties.
- Emergency Act - All reasonable measures for remedy the failure and effects of pollution.

Natural Gas Overall Chain Supply

- Environmental Issues and Liabilities in the Overall Agreements system in the Supply Chain:
 - Gas Drilling
 - LNG Facilities.
 - Gas Piping and Supply.
 - Gas Endorsement in the Industry.

Natural Gas Overall Chain Supply

- Issues as Emergency incidents Liability.
- Insurance Cover for all Scenarios.
- Use of All Reasonable Measures for Minimizing the Environmental incident Potential.
- Minimizing Officer's Liability.

Safety & Environmental Risk Assessment

- Clear and Comprehensive methods and Practices
- Based on Scientific Marine Monitoring Procedures
- In the Israeli Case Study – Creates the Norms
- Minimize Officers Liability

Safety & Environmental Risk Assessment



- BP and sustainability
- Our people
- Gulf of Mexico
- The energy future
- Safety
- Environment**
- Managing our environmental impact
- Working in protected areas
- Biodiversity
- Oil spills and the environment
- Environmental performance
- Case studies
- Society
- Data and mapping tools
- About our reporting
- BP Energy Lab

Environment



61.8Mte
Direct greenhouse gas emissions

337m
Total water withdrawal in cubic metres

59
Projects screened in early planning for environmental and social impacts

BP is working to manage environmental sensitivities and the potential impacts on communities wherever we do business

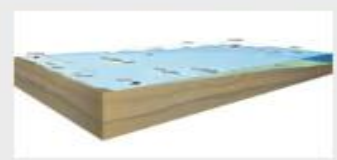
- Managing our environmental impact**
How we seek to manage environmental issues from the beginning to the end of our operations
- Working in protected areas**
A list of international protected areas that could be affected by our major operations and how we are working to mitigate impacts
- Biodiversity**
How we work to protect ecosystems on land and at sea, and our approach to 'ecosystem services'
- Oil spills and the environment**
Our oil spill performance data and the steps we are taking for oil spill preparedness and response



Working responsibly in the Arctic

The environmental sensitivities of Arctic environments create some unique challenges for oil and gas operations. We are working to understand and address the potential impacts of our operations

- Environmental protection in the Arctic**

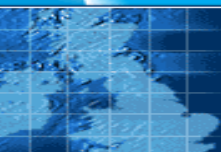


Studying the effects of sound on marine mammals

For more than 10 years, we have been monitoring our impact on the bowhead whale, a protected species that migrates into and out of Canada each year, passing BP's Northstar production island in Alaska.

- Science and technology in environmental protection**

Safety & Environmental Risk Assessment



Strategic Environmental Assessment

UK Public consultation for offshore energy licensing

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Sun 25th November 12

Consultations

- Current SEA
- Completed SEAs
- Timetable

Your Input

- Comment
- FAQs
- Contact Us
- Ask a question

The SEA process

- What is the SEA Process?
- How to get involved
- SEA recommendations
- Steering group

Further Information

- SEA news
- Get documents
- Useful Links
- Offshore wind
- Offshore Oil & Gas

Quick SEA Info...

...Select

Go

Public consultation website for strategic environmental assessment prior to licensing for offshore energy

Offshore SEA latest...



27th Seaward Licensing Round Screening Assessment

Published: Tuesday 23rd October 2012
The Habitats Regulations screening assessment of blocks applied for in the 27th Seaward Licensing Round is now available.

Two new OESEA 2 technical reports published

SEA News
Two new research reports from projects commissioned and funded through the DECC Offshore Energy Strategic Environmental Assessment programme have been published.



Strategic Environmental Assessment (SEA)

What is the SEA Process?
Strategic Environmental Assessment is a process for predicting and evaluating the environmental implications of a policy, plan or programme...

SEA Archive
Looking for documents and data related to completed SEAs?

Website news
This website will shortly be moving to...
GOV.UK

Offshore Energy Atlas
UK Offshore Renewable Energy Atlas
Now Available

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Contact Details:

Orit Marom Albeck, Adv, B.Sc.

oritma@shibolet.com

Efrat Shamgar, Adv. And a Bs.C. Chemical Engineer

e.shamgar@shibolet.com

Thank you

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ADVOCATES & NOTARIES