

Petroleum research in the Research Council of Norway

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Outline of the presentation

- The Research Council of Norway
- OG21 strategy
- The funding instruments for R&DD
 - Large-scale programme for petroleum research-
PETROMAKS 2

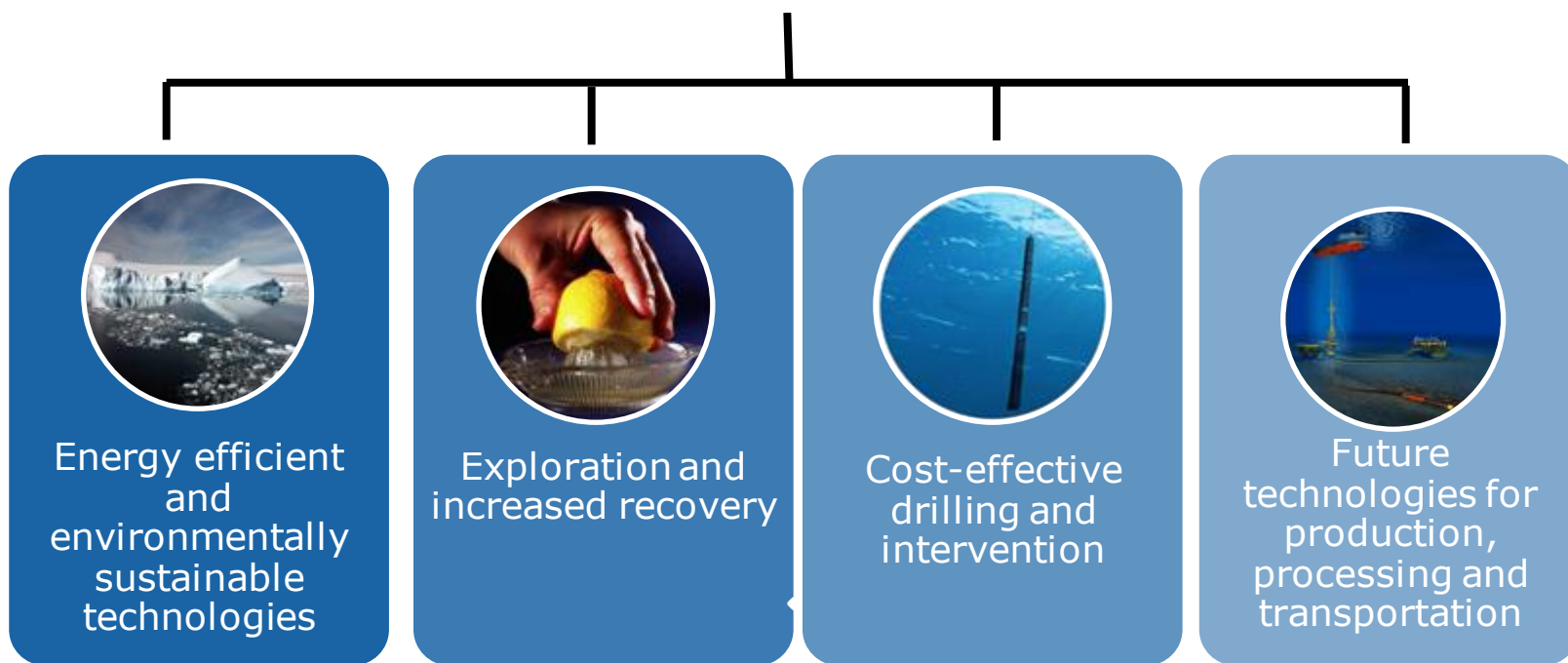
The Research Council of Norway – a key player in Norwegian research

- Covers all science and technology fields
- Budget of about 7 billion NOK
- *Adviser to the government*
- *Research funding*
- *Networking and dissemination*
- *International collaboration*



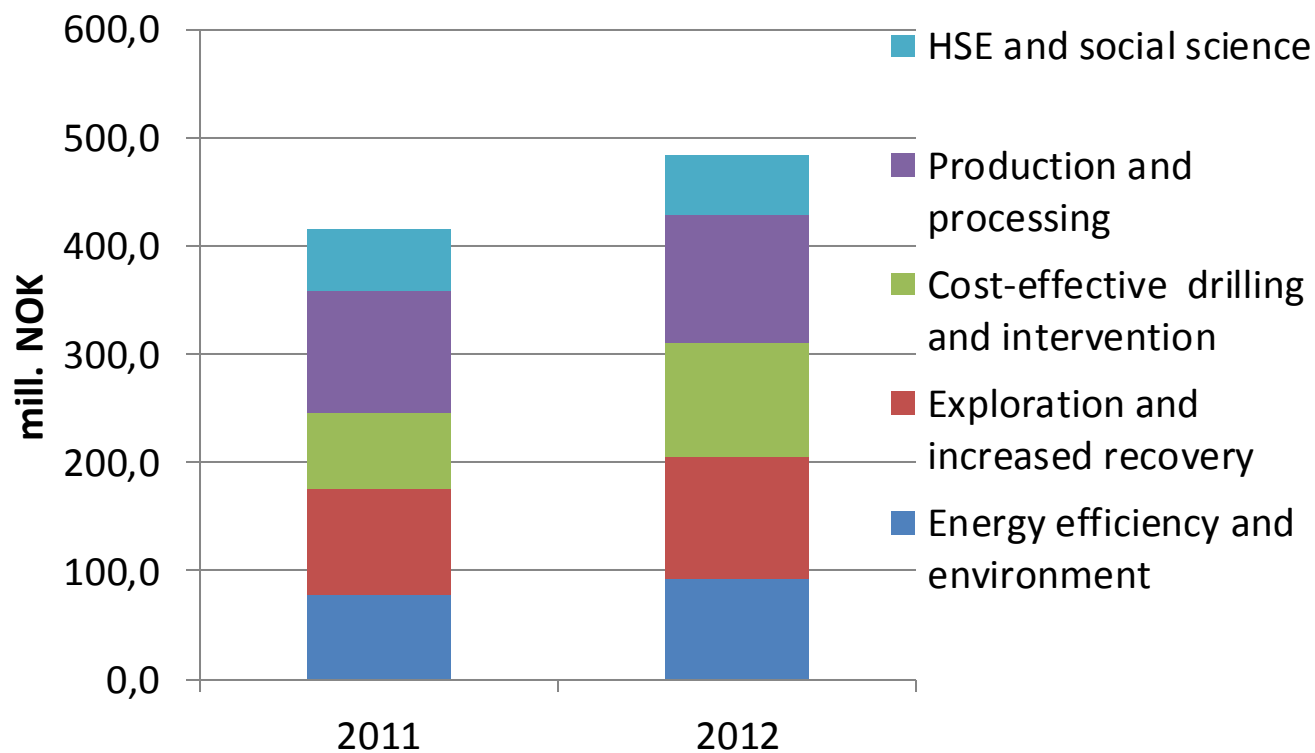


The OG21 strategy – thematic areas for petroleum RD&D

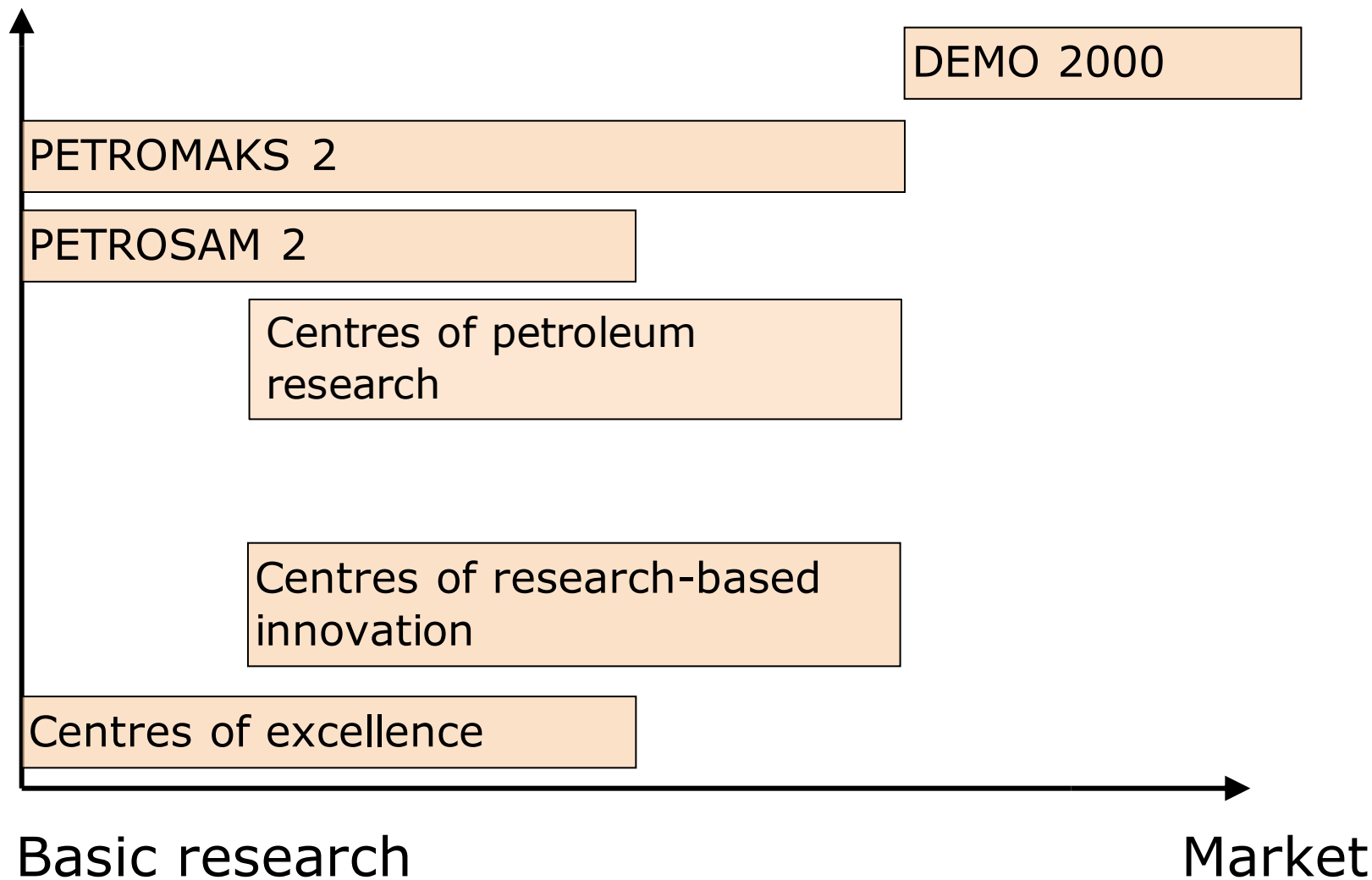


Technology Target Areas

PETROLEUM



Petroleum in the Research Council



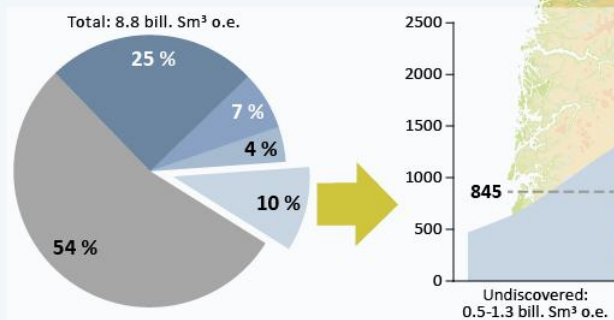
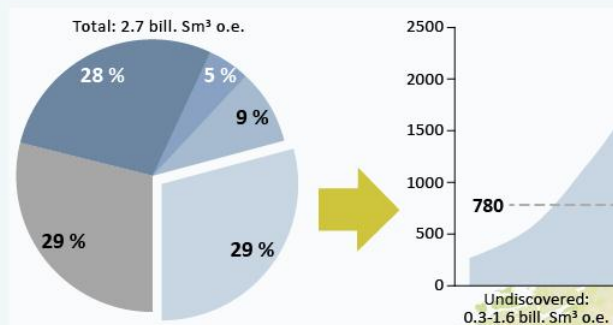
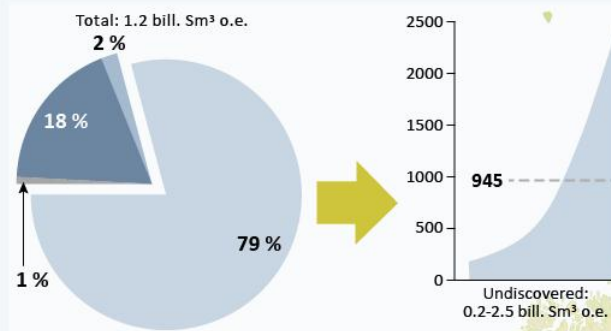
Objective for PETROMAKS 2

- Knowledge creation and industrial development to promote development and optimal management of Norwegian petroleum resources within an environmentally sustainable framework



Norway's petroleum resources

- Undiscovered resources
- Contingent resources in discoveries
- Contingent resources in fields
- Reserves
- Sold and delivered



Source: Norwegian Petroleum Directorate, 2011

Thematic priorities in PETROMAKS 2

- **Thematic area 1:** Energy efficient and environmentally sustainable technologies
- **Thematic area 2:** Exploration and increased recovery
- **Thematic area 3:** Cost-effective drilling and intervention
- **Thematic area 4:** Future technologies for production, processing and transport
- **Thematic area 5:** Prevention of major accidents, work-related illnesses and injuries to personnel in the petroleum industry

Cross-thematic, integrated:

- Energy efficiency and reduced greenhouse gas emissions

Thematic area 2: Exploration and increased recovery

Increased recovery

- Mapping, release and transport of immobile oil
- Reservoir and fluid characterisation for improved volumetric sweep
- Optimised, combined methods for enhanced oil recovery

New discoveries

- Large-scale (basin and exploration model) integrated geologic process and modelling;
- Geophysical acquisition methods, processing, imaging and joint interpretation;
- New exploration methods for the Arctic.

Strategic priorities in PETROMAKS 2

Collaboration and network

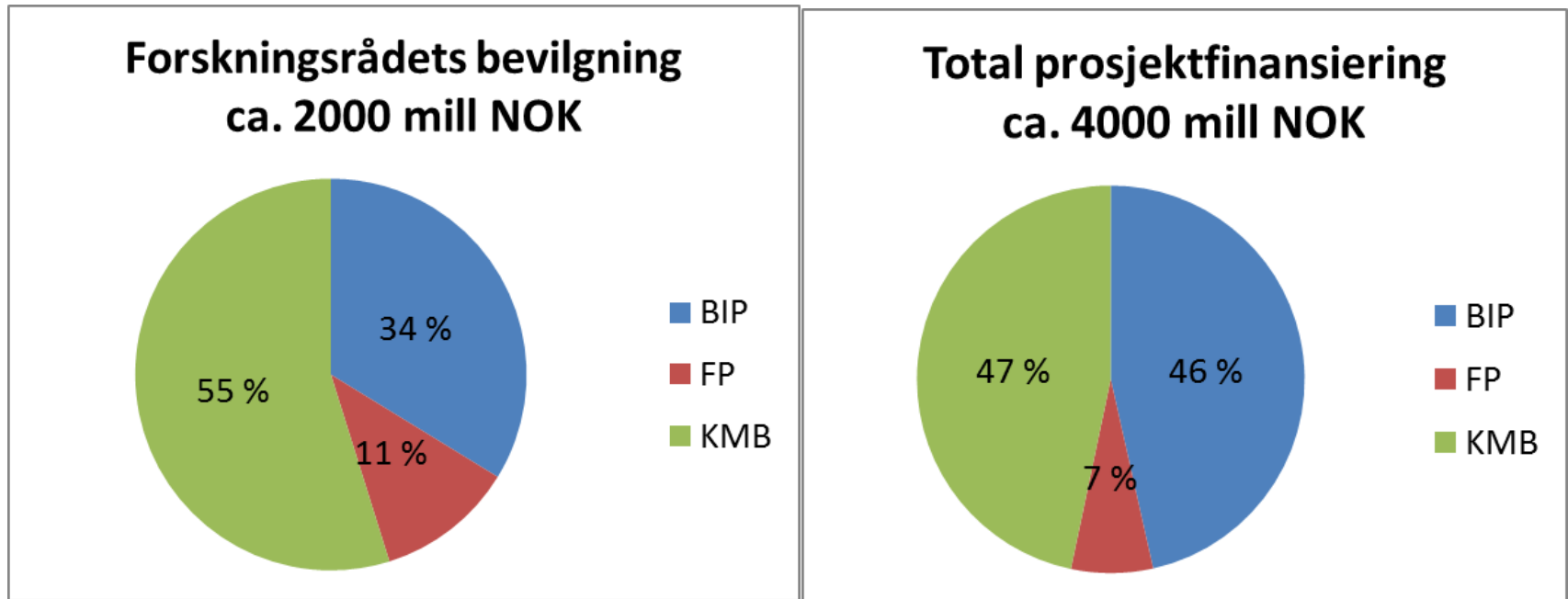
Universities, research institutes

- Competence
- Recruitment
- Research based education

Industrial sector

- Small and medium sized enterprises
- Larger enterprises – only clear additionality

Application types From the PETROMAKS portefolio (2004-2011)



- BIP (IPN) – Industry, max 50 % support from RCN
- KMB (KPN) – Research institutions, min 20 % cash from the industry
- FP – Research institutions, up to 100 % support from RCN

International collaboration in PETROMAKS 2

Objectives:

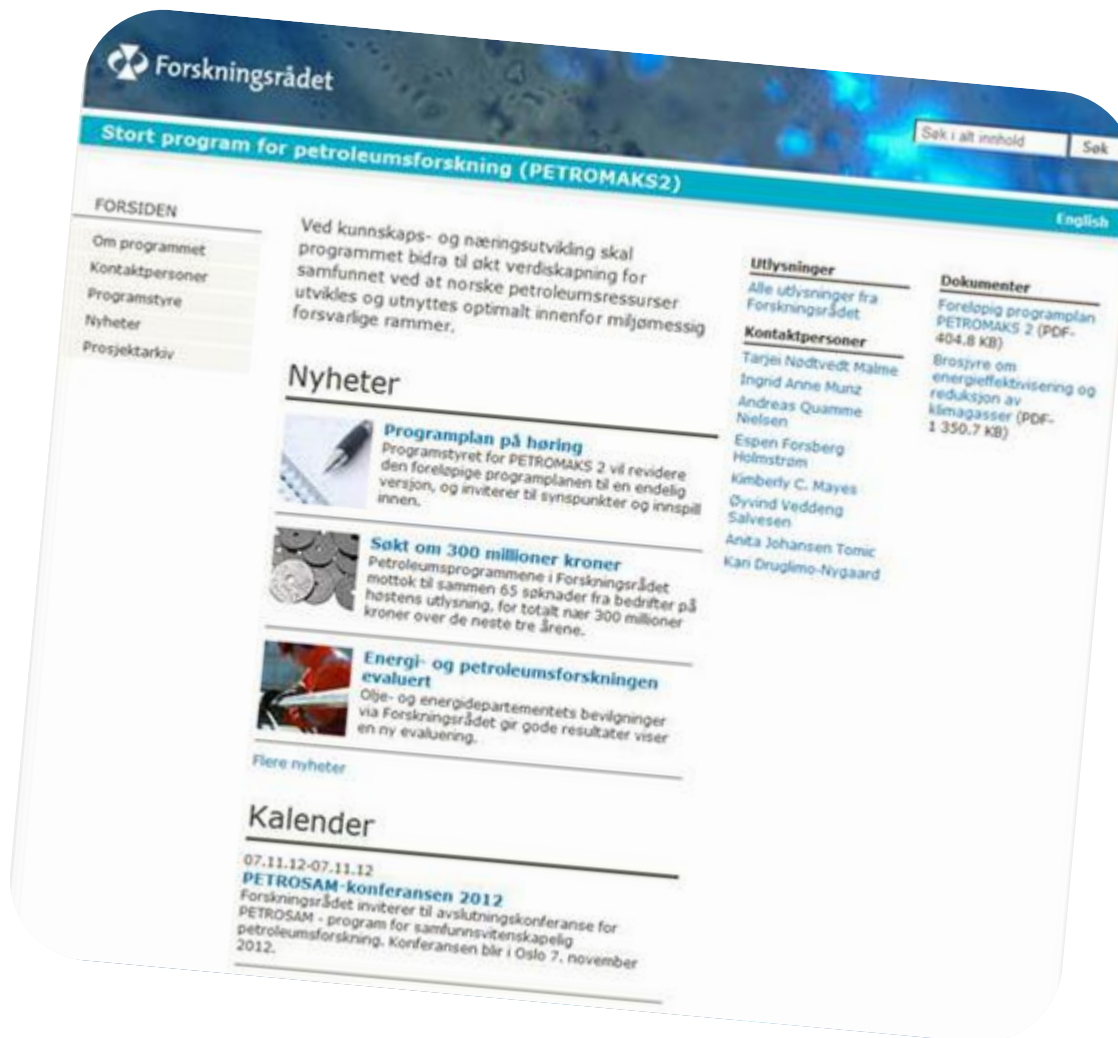
- Competitive Norwegian technology in the international arena
- Collaboration between Norwegian research groups and leading international groups
- Promoting the interests of Norwegian research groups in the international arena

Relevant arenas/partners:

- IEA
- Bilateral
 - North America
 - Russia
 - Brazil




www.forskningsradet.no/petromaks2



The screenshot shows the website for the PETROMAKS2 program. The header includes the logo of Forskningsrådet and the title "Stort program for petroleumsforskning (PETROMAKS2)". A search bar is located in the top right corner. The main content is organized into several sections:

- FORSIDEN**: A sidebar menu with links to "Om programmet", "Kontaktpersoner", "Programstyre", "Nyheter", and "Prosjektarkiv".
- English**: A language selection link in the top right.
- Utlysninger**: A section listing all applications from the Research Council.
- Kontaktpersoner**: A list of contact persons including Tarjei Nødvedt Malmø, Ingrid Anne Munz, Andreas Quamme Nelsen, Espen Forsberg Holmstrøm, Kimberly C. Mayes, Øyvind Veddegg Salvesen, Anita Johansen Tomic, and Kari Druglino-Nygaard.
- Dokumenter**: A section listing documents such as the "Foreløpig programplan PETROMAKS 2 (PDF-404.8 KB)" and a "Brosjyre om energifektivisering og reduksjon av klimagasser (PDF-1 350.7 KB)".
- Nyheter**: A news section with three articles:
 - Programplan på høring**: The program board will review the preliminary plan and invite for input.
 - Søkt om 300 millioner kroner**: The council received 65 applications for a total of nearly 300 million kroner over the next three years.
 - Energi- og petroleumsforskningen evaluert**: Oil and energy department grants via the council show good results in a new evaluation.
- Kalender**: A calendar section with an event for "07.11.12-07.11.12 PETROSAM-konferansen 2012", where the council invites to a concluding conference for the PETROSAM program in Oslo on November 7, 2012.



Thank you for your attention!