Newfoundland and Labrador

Booth # 31
Canada
Strategic Location and Excellent Prospectivity

- Newfoundland and Labrador is one of Canada’s premier energy producing areas with annual light crude production of 84 million barrels (or 230,151 bpd) in 2018
- 5 offshore fields produce ~25% of Canada’s conventional light crude oil
- Total expenditures from 1966-2017 in NL’s offshore area is $59.4 billion
- Discovered resources: 4.3 Bbbls of oil, 12.6 Tcf of natural gas.
- Total cumulative oil production is 1.83 billion barrels over 20 years
Regional Overview

- Offshore area of 1.8 million km² or 445 million acres
- 3% held under license
- Production on the shelf for now and deep-water exploration drilling
Produceing Fields

- **Hibernia**:  
  - ExxonMobil (28%), Chevron, Suncor, CHHC, Murphy, Equinor

- **Terra Nova**:  
  - Suncor (38%), ExxonMobil, Equinor, Husky, Murphy, Mosbacher, Chevron

- **White Rose**:  
  - Husky (72.5%), Suncor

- **North Amethyst**:  
  - Husky (69%), Suncor, Nalcor (5%)

- **Hebron**:  
  - ExxonMobil (35%), Chevron, Suncor, Equinor, Nalcor (4.9%)
Bay du Nord

- Framework agreement announced in 2018
- FID in 2020
- 1,100 m water depth
- 475 km from St. John’s, NL
- 407 million barrels
- Development plan with up to 30 wells
- Tieback potential
Scheduled Land Tenure Regions

High Activity (2-year cycle)
1. Eastern NL

Low Activity (4-year cycle)
2. Labrador North
3. Labrador South
4. North Eastern NL
5. South Eastern NL
6. Southern NL
7. Western NL

Mature (1-year cycle)
8. Jeanne d’Arc
• Revised timing of the Call for Nominations schedule to accommodate completion of the environmental assessment process

• Rescheduled Call for Bids:
  • 2017 LS > 2021
  • 2019 LS > 2022
  • 2020 S NL > 2022
  • 2020 NE NL > 2024

• JD, EN, & SE NL Call for Bids scheduled for 2019-2021 the same
Updates to Land Tenure System

- Boundary for Jeanne d’Arc extended to align with basin geology
- Clarification regarding cross-boundary nominations
- Deadline extension: Call for Nominations for parcels (NL18-CFN03) extended to Jan 23, 2019 (original date Nov 14, 2018)
- Cumulative parcels scheduled for low activity areas
Previously, unawarded parcels were offered on next Call for Bids round in land tenure region (every 1, 2, or 4 years, depending on activity level)
- Meant low-activity areas would only have those reposted parcels every 4 years

Now, unawarded parcels will be offered in low activity areas every 2 years, alternating between northern and southern areas
- Jeanne d’Arc and Eastern Newfoundland no change, occur with scheduled Call for Bids
Marine Protected Areas

- Department of Fisheries and Oceans
- Protect marine biodiversity, ecosystems, and special natural features
- Province has input in Federal MPAs
  - Gilbert Bay
  - Eastport
  - Laurentian Channel Area of Interest
- Other marine refuge/conservation areas that prohibit bottom-contact fishing activities, include:
  - Northeast NL Slope Closure
  - Funk Island Deep Closure
  - Hawke Channel Closure
**2018 Call for Bids**

- EN CFN announced in 2016 by the C-NLOPB
- Largely underexplored area with only 11 wells in the vicinity of the parcels, excellent seismic coverage
- 9 new parcels, 7 reposted
- Call for Bids closed Nov. 2018; 5 successful bids
- Record setting

<table>
<thead>
<tr>
<th>Exploration Licence</th>
<th>Hectares</th>
<th>Successful Bidders</th>
<th>Successful Bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>1157 (Parcel 8)</td>
<td>269,799</td>
<td>BHP (100%)</td>
<td>$621,021,200</td>
</tr>
<tr>
<td>1158 (Parcel 12)</td>
<td>273,579</td>
<td>BHP (100%)</td>
<td>$201,021,200</td>
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<tr>
<td>1159 (Parcel 14)</td>
<td>159,036</td>
<td>Equinor (70%), Husky (30%)</td>
<td>$32,231,981</td>
</tr>
<tr>
<td>1160 (Parcel 15)</td>
<td>253,608</td>
<td>Equinor (60%), Suncor (40%)</td>
<td>$480,000,000</td>
</tr>
<tr>
<td>1161 (Parcel 1 in JD)</td>
<td>142,448</td>
<td>Suncor (40%), Husky (30%), Equinor (30%)</td>
<td>$51,999,555</td>
</tr>
</tbody>
</table>

**Total Successful Bids** $1,386,273,936
Jeanne d’Arc and SE NL regions

In 2015, the CNLOPB announced a sector in the Carson Basin area in SE NL region.

Call for Bids to be announced in March 2019; Close November 2019

2,155,327 ha (21,553 km²)

Water depth: 100 – 3,500 m
Data courtesy of C-NLOPB. 20,179 km of 2D

Data courtesy of TGS/PGS. 31,205 km of 2D, 7,850 km² of 3D
Seismic Maps

www.gov.nl.ca/nr/publications/energy

500 ms c.i.

Base Cretaceous Time

Base Mesozoic Time
Seismic Maps

Total Sediment Thickness (time)
Seismic Data
Seismic Data
Interactive Well and Seismic Tool

Natural Resources

Energy Maps

The Petroleum Development Section is responsible for fostering the exploration, development and production of the province's hydrocarbon resources, and providing related direct you to maps and data related to the exploration and development of the Province's petroleum resources.

Mapping apps and services are undergoing maintenance and may be unavailable at times. Please email energyinfo@gov.nl.ca with any immediate concerns.

- Petroleum Development Mapping Application Hub "NEW"
- Onshore Petroleum Maps and Data
- Offshore Petroleum Maps and Data

Adobe Acrobat Reader software can be used for viewing PDF documents. Download Acrobat Reader for free.
Interactive Well and Seismic Tool
Interactive Well and Seismic Tool
Exploration Data Room

Advance 2030 Initiative    Announced October 26, 2018

www.hydrocarbonassets.com
Data Room Seismic
Data Room Wells
Virtual Exploration Data Room

https://www.nr.gov.nl.ca/nr/
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Contact:
Jovan Petrovic at JovanPetrovic@gov.nl.ca

Brad Kendell at bkendell@gov.nl.ca