MARITIME INDUSTRIES CONNECTIONS
BRAZIL OFFSHORE ENERGY SECTOR

Roundtable Business Meeting
Brazilian Shipyard Map

Carlos José do Nascimento Travassos
Chief Engineering, Technology and Innovation Officer

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Inclusions investments in the shipbuilding industry

Investments of SP in the period 2024-2028

Portfolio under implementation

- Petrobras Strategic Plan (SP) with 14 oil platforms
- Evaluation of 7 more platforms in fields already in production (post SP)
- 38 maritime support vessels
- Sustainable disposal of 23 platforms by 2028 and another 40 after that

73 $ billions

Includes investments in the shipbuilding industry
Typical Petrobras Offshore Production Development Project

- Contracting
- FPSO construction
- Mooring
- Connections
- FEL 2
- FEL 3
- Wells construction
- 1st oil

Exports of gas

Water and/or gas injection

Oil + Gas + Water
Complex correlation between critical resources and projects
Demand of 14 FPSOs for the period 2024-2028

- **Chartered units**
- Pre-salt implemented/under implementation
- Post-salt implemented
- Pre-salt under contract
- Post-salt under contract
- Not operated

<table>
<thead>
<tr>
<th>Year</th>
<th>FPSOs</th>
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<tbody>
<tr>
<td>2023</td>
<td>Revit Marlim 2 Anna Nery* 70kbpd - WI PB 100%</td>
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<tr>
<td></td>
<td>Búzios 5 Alm. Barroso* 150kbpd - WI PB 89%</td>
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<tr>
<td></td>
<td>Revit Marlim 1 Garibaldi* 80kbpd - WI PB 100%</td>
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<tr>
<td></td>
<td>Mero 2 Sepetiba* 180kbpd - WI PB 39%</td>
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<tr>
<td>2024</td>
<td>Mero 3 Mal. D. de Caxias* 180kbpd - WI PB 39%</td>
</tr>
<tr>
<td>2025</td>
<td>IPB Maria Quitéria* 100kbpd - WI PB 100%</td>
</tr>
<tr>
<td></td>
<td>Búzios 7 Alm. Tamandaré* 225kbpd - WI PB 89%</td>
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<tr>
<td></td>
<td>Mero 4 Alex. De Gusmão* 180kbpd - WI PB 39%</td>
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<tr>
<td></td>
<td>Búzios 6 P-78 180kbpd - WI PB 89%</td>
</tr>
<tr>
<td>2026</td>
<td>Búzios 8 P-79 180kbpd - WI PB 89%</td>
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<tr>
<td></td>
<td>Búzios 9 P-80 225kbpd - WI PB 89%</td>
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<tr>
<td>2027</td>
<td>Búzios 10 P-82 225kbpd - WI PB 89%</td>
</tr>
<tr>
<td></td>
<td>Búzios 11 P-83 225kbpd - WI PB 89%</td>
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<tr>
<td></td>
<td>Revit Albacora* 120kbpd - WI PB 100%</td>
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<tr>
<td>2028</td>
<td>BM-C-33 126kbpd WI PB 30%</td>
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<tr>
<td></td>
<td>REVIT BRC/CRT* 100kbpd WI PB 100%</td>
</tr>
<tr>
<td></td>
<td>SEAP 2* 120 kbpd WI PB 88%</td>
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<tr>
<td></td>
<td>SEAP 1* 120kbpd WI PB 69%</td>
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7 more platforms under study to fields under operation, starting after 2028
Future FPSOs - More Predictability

<table>
<thead>
<tr>
<th>2029</th>
<th>2030</th>
<th>2031</th>
<th>2032</th>
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- A new FPSO with combined cycle power generation system for the Revitalization of Marlim Sul and Marlim Leste under study
- Bidding is planned to begin in the 2H2024
- Pre bidding documentation and some engineering documents were made available on the Supplier Portal

Bidding approximately 4 to 5 years before first oil

Access to Petrobras Supplier Portal
Future FPSOs - More Predictability

Pre bidding documentation and engineering documents

Access to Petrobras Supplier Portal
Demand up to 38 support vessels for our maritime operations

**PSV - Platform Supply Vessel**
- 12 PSVs, published on 03/04/2024 (receipt of proposals 02/08/2024)

**RSV - Remotelly Support Vessel**
- 16 RSVs, expected start of contracting in 1Q25 and 1Q26

**OSRV - Oil Spill Response Vessel**
- 10 OSRVs, expected expected start of contracting in 2024

<table>
<thead>
<tr>
<th>3rd PROREFAM - 2009 to 2014</th>
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<tbody>
<tr>
<td>PSV, OSRV e AHTS</td>
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<tr>
<td>73 delivered vessels</td>
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<tr>
<td>3 to 4 Years of construction</td>
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<tr>
<td>8 Years of contract</td>
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<tr>
<th>CURRENT PROCESS *</th>
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<tbody>
<tr>
<td>PSV, OSRV e RSV</td>
</tr>
<tr>
<td>38 units</td>
</tr>
<tr>
<td>4 years</td>
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<tr>
<td>8 to 10 years of contract</td>
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* The planned demand represents around 50% of what was delivered by the 3rd Fleet Renewal Program (PROREFAM) between 2009 and 2014

* Conditions that could make it possible to build new vessels in Brazil
Actions in FPSO Financing

- **Cash flow**: revision underway for more neutral cash flow reference for contractors

- **China Workshop**: held on March 25th and 26th, 2024 with banks and leasing FPSO companies in Beijing to promote Petrobras' portfolio. Attended by CDB, BNDES, Sinosure, Clai Fund, China Merchant Financial Leasing

- **Anticipation**: 10% advance payment used for own FPSOs and increase in advance payment for chartered FPSOs

- **Association**: Consortia associations are being studied in order to increase the processes competitiveness

- **Merchant Marine Fund**: Approval on 23/03/2024 of the fund resources to prioritize the SEAP 1 and 2 project with around R$ 8,56 billion

- **Guarantees**: acceptance of Guarantee Insurance for own FPSOs implemented; review of guarantees for advance payment on chartered FPSOs under going
The shipbuilding industry is undergoing a recovery process, but it faces significant challenges

- **Demand for larger and more complex platforms**
- **Shipyards went through a critical period with low demand. Need to strengthen active shipyards and develop new ones for the construction of modules for oil platforms**

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**Highlights:**

- **Estimate of 50,000 tons of modules to be made in Brazilian shipyards**
- **Heating up the entire associated supply chain**

**Tons of modules Brazil / year**

- Typical process plant weight of 17,000 tons
- Typical process plant weight of 25,000 tons
- Typical process plant weight greater than 50,000 tons

*Estimated data based on execution times and inclusion of 3 potential projects*
Increase from 3 to 9 potential shipyards for building platform modules

Petrobras has evaluated active and potential national shipyards, seeking to identify their service capacity and development needs.

**IBP**: seminars to launch the Map of Shipyards in Brazil: encouraging the creation of partnerships between FPSO suppliers (04/18/2024)

FPSO Almirante Tamandaré modules by EBR

First plate cut for P-79 at Metasa

FPSO Live with Suppliers on 02/22/2024: Presentations of Petrobras’ medium-term portfolio to engage the supplier market with 86 participating suppliers

First plate cut for the P-80 at BrasFELS

Manufacture of P-80 modules