Brazil: a Historic Opportunity for the Global Oil and Gas Industry

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(3)	Potential Results
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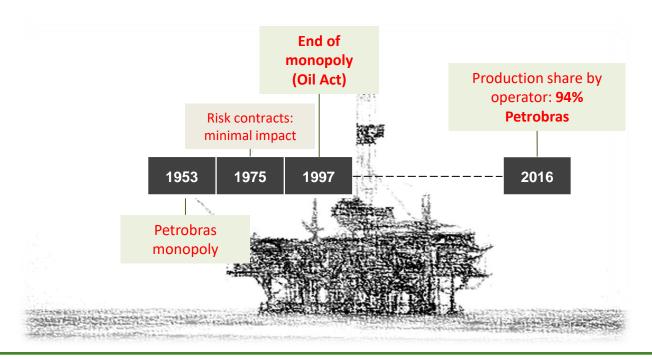
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The risk contracts and the Oil Act were not able to significantly change Petrobras' dominance

Upstream



No significant private operations in the downstream, logistics and natural gas areas



The country is going through the greatest transformation in its Energy Sector since the foundation of Petrobras in 1953, leading to a competitive market





Improvements in the Energy Policy

Companies other than Petrobras can now operate blocks in the pre-salt (Law 13.365/16)

New E&P Policies under public consultation

Ongoing Government Programs:

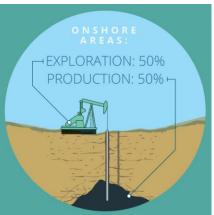
- REATE (Onshore revitalization)
- Gás para Crescer (Gas to Grow)
- Renovabio (Biorenews)
- Combustível Brasil (Brazil Fuel)

CNPE has announced a new local content policy for the 14th Bidding Round

Offshore



Onshore



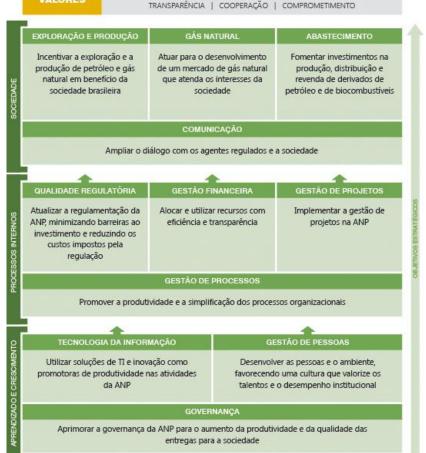
Source: Ministry of Mines and Energy



ANP priorities

- ✓ Encourage oil and gas exploration and production
- ✓ Carry out the bidding rounds
- ✓ Stimulate field life extension and maximize recovery
- ✓ Improve contracts, simplify regulations and speed processes
- ✓ Act to develop a gas market that meets the society's interests
- ✓ Promote investment in production, distribution and resale of oil products and biofuels









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Bidding Rounds Schedule

Bidding Rounds Schedule (2017-2019)

10 Bidding Rounds		
2017	14 th Bidding Round	27 th September
	2 nd Production Sharing Bidding Round	27 th October
	3 rd Production Sharing Bidding Round	27 th October
	4 th Marginal Fields Bidding Round	11 th May
2018	15 th Bidding Round	May, 2018
	4 th Production Sharing Bidding Round	May, 2018
	5 th Marginal Fields Bidding Round	To be defined
2019	16 th Bidding Round	3 rd Q 2019
	5 th Production Sharing Bidding Round	3 rd Q 2019
	6 th Marginal Fields Bidding Round	To be defined



14th Bidding Round



287 Blocks

Total Area: 122,622 km²

Concession Contracts

New Frontier onshore Areas

Paraná Parnaíba

Mature onshore Areas

Potiguar Recôncavo SEAL Espírito Santo Offshore Areas

Sergipe-

Alagoas

Espírito Santo

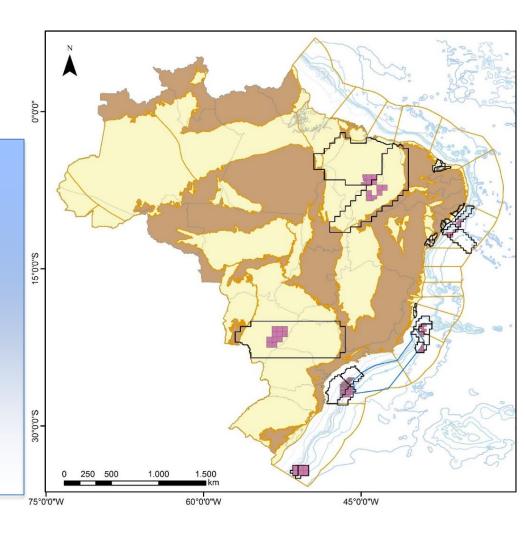
Campos

Santos

Pelotas

Unrisked in place volume:

~50 Bbbl





2nd Production Sharing Bidding Round

4 Unitizable Areas

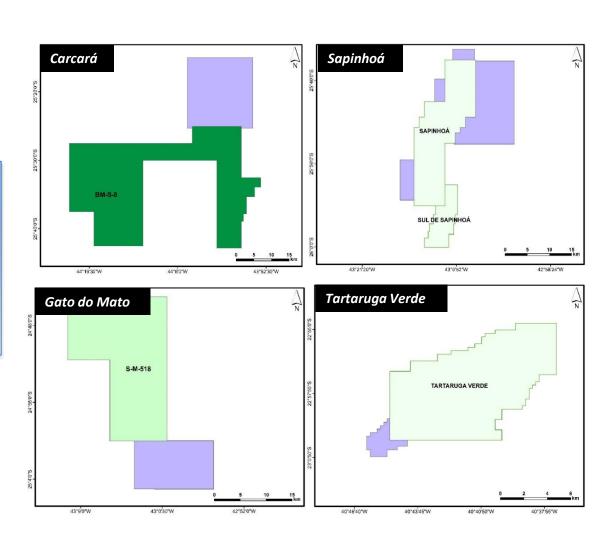
Production Sharing Contracts

Carcará and Gato do Mato in Exploration Phase

Tartaruga Verde under Development (First Oil ~ 2017)

Sapinhoá in production (250,000bpd)

Carcará estimated in place volumes: ~2.2 billion bbl (outside the contracted area)



Unitizable Area

Contracted Area



3rd Production Sharing Bidding Round

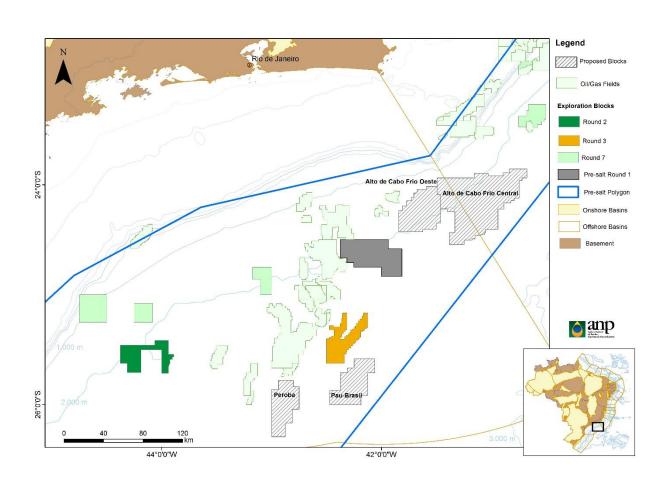
4 Pre-Salt Areas

Production Sharing Contracts

Peroba
Unrisked in place volume:
5.3 Bbbl

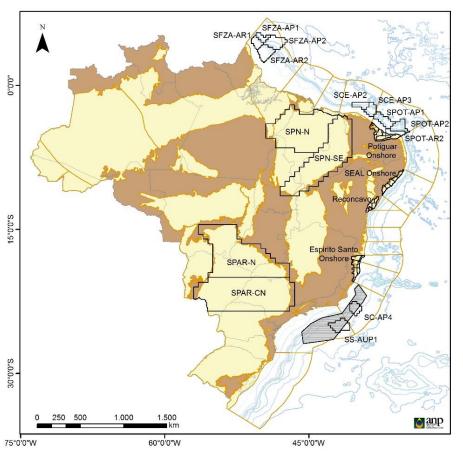
Pau Brasil
Unrisked in place volume:
4.1 Bbbl

Alto de Cabo Frio Oeste Alto de Cabo Frio Central

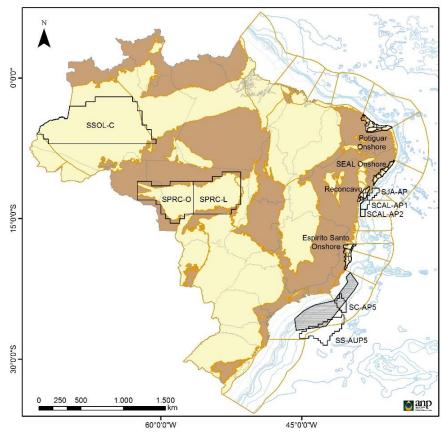




15th Bidding Round



16th Bidding Round



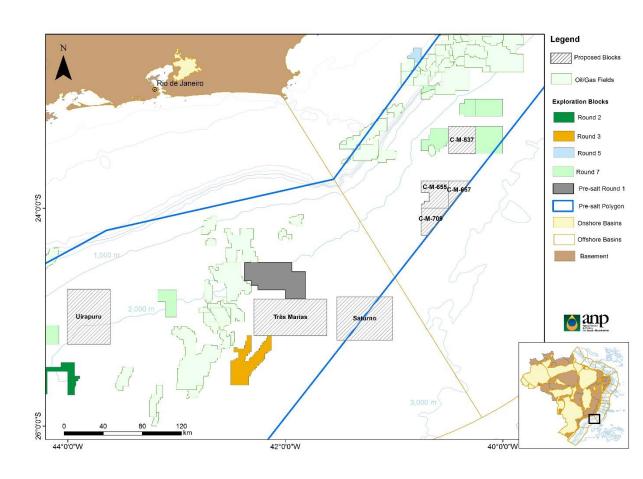


4th Production Sharing Bidding Rounds

7 Pre-Salt Areas

Production Sharing Contracts

Saturno	C-M-537
Três Marias	C-M-655
	C-M-657
Uirapuru	
	C-M-709



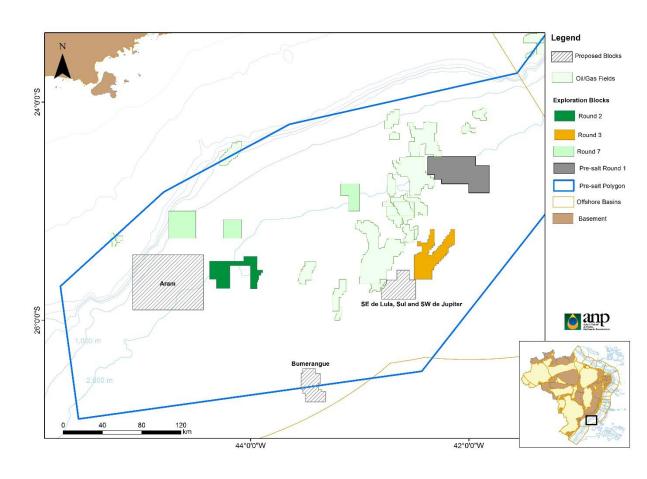


5th Production Sharing Bidding Rounds

3 Pre-Salt Areas

Production Sharing Contracts

Aram
SE Lula, South and SW Júpiter
Bumerangue





Contract and Tender Protocol Improvements

Contract and tender protocol improvements under construction for the 14th Bidding Round:

- ✓ A single exploration phase, excluding the well obligation in the second period
- ✓ Possibility of extending the exploratory phase for technical reasons
- ✓ Local Content withdrawal as an offer criteria
- ✓ Royalties adjusted to new frontier and mature areas that present greater geological, logistic and economic risk
- ✓ Reduction of the minimum net worth required for non-operators (from 50% to 25% of the amount required for operators)
- ✓ Stimulate the indirect participation of investment funds
- ✓ Several other measures to reduce entry costs and simplify the contract





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Potential Results

Current production/reserves

Production (March, 2017)

Oil – 2.5 million bpd Gas – 101 million m³/day

Proven Reserves (Dec, 2016)

Oil – 12.7 billion bbl Gas – 378 billion m³

Expected potential (next 10 Bidding Rounds)

US\$ 83 billions in new investments

+ 10 billion bbl of Recoverable Volumes

+ 300 offshore wells

+ Up to 20 drilling rigs working simultaneously

+ 17 new production units

+ 1,100 km of flowlines

+ 600 km of gas pipelines

+ 2 million bpd in 2027





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Final Remarks

- Ten new bidding rounds are planned for 2017-2019 offering acreages containing billion barrels of oil in place and creating opportunities for all types of exploration and production companies
- Some of the blocks in offer are among the most attractive exploration opportunities available in the world
- The development of the new O&G fields will have a very relevant impact in the services and supply industry in Brazil in the next few years
- Companies interested in investing in E&P, in the supply chain and in the service industry in Brazil have the largest window of opportunity in decades



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