



PPI/Segov and the
**BRAZILIAN
INFRASTRUCTURE
OVERVIEW**

May, 2019.



Secretaria de
GOVERNO

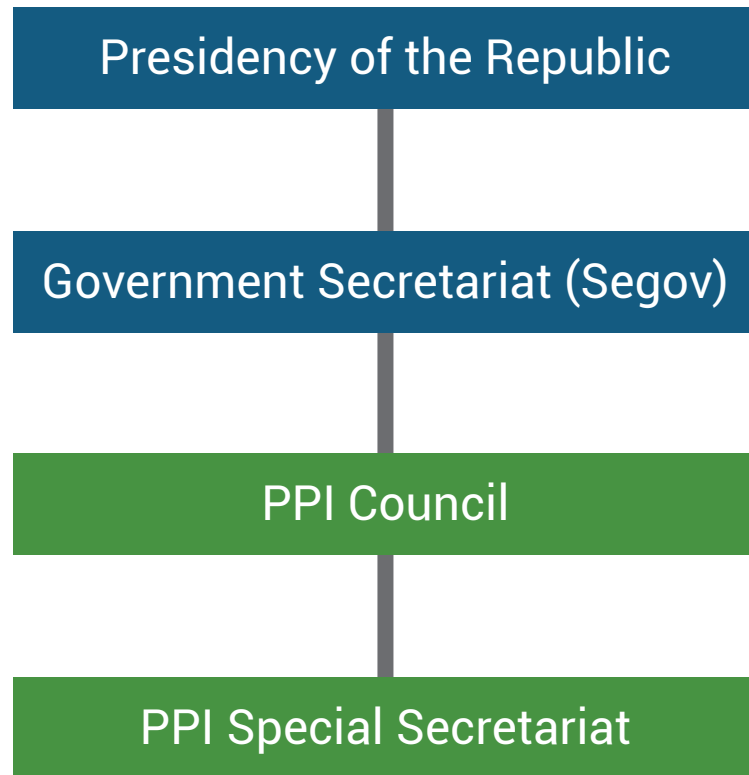




PPI/Segov



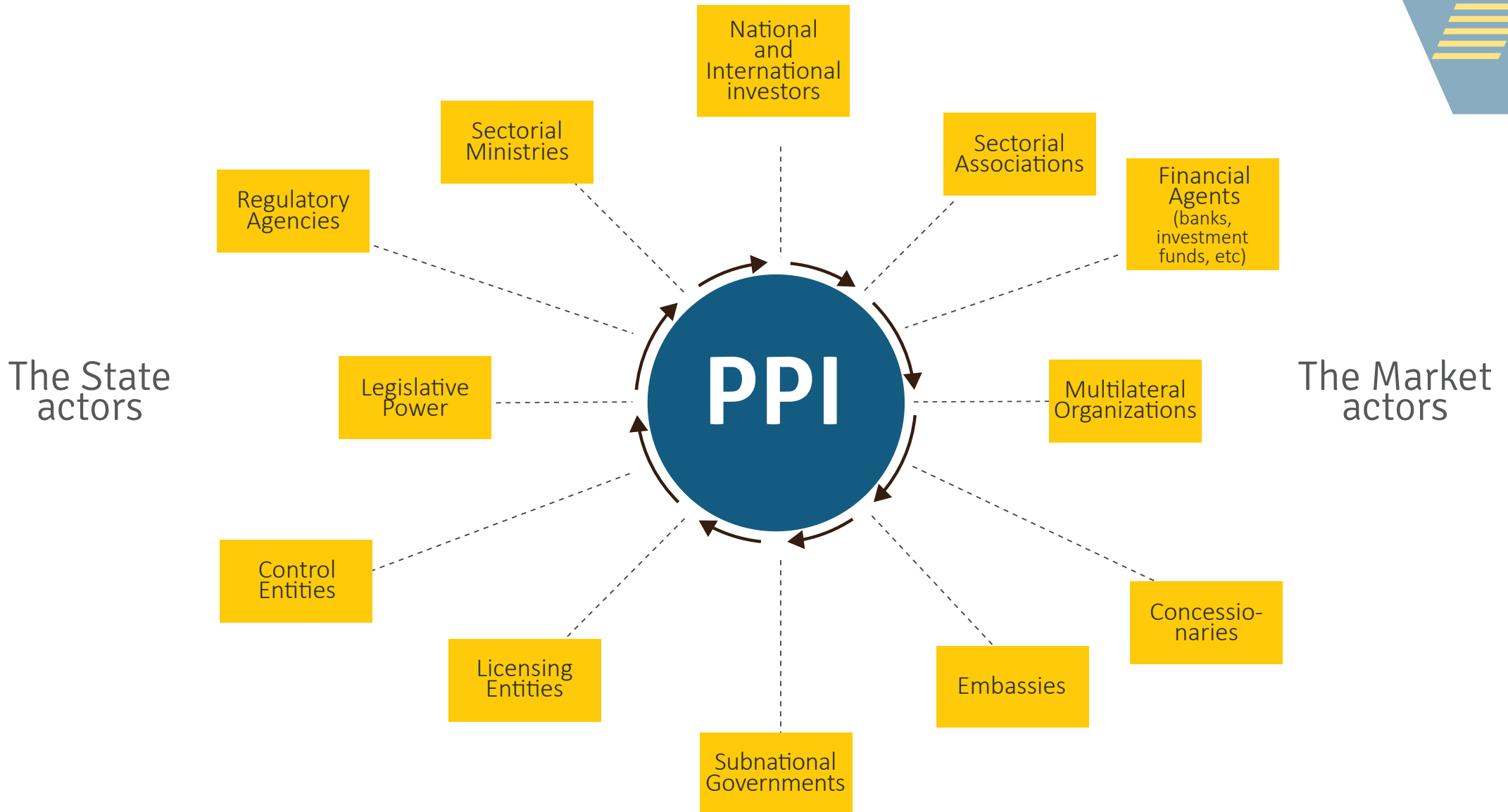
PPI Structure



The Investments Partnerships Program (PPI) The PPI is a streamlined structure, with a highly qualified team of technical profile. It works as a true **task force** by bringing together the private sector and the public administration.



PPI works as a hub



PPI Council

The PPI Council (CPPI) is an interministerial body responsible for assessing and providing guidance for the PR to make decisions on the projects which shall be qualified as part of the program. The PPI selects the most appropriate model of public-private partnerships for each and every project, including state-owned companies' privatization contracts.

The CPPI carries out activities of the Federal Public-Private Partnerships Management Body, the National Privatization Council (CND) and the National Council for the Integration of Transportation Policies (CONIT).

The governance structure of the PPI (CPPI and Special Secretariat) identifies, prioritizes and coordinates the offering of economically feasible projects to the private sector.



Investments **Partnerships Program**



The Investments Partnerships Program (PPI) has intensified its assignments in order to ensure the improvement in infrastructure that Brazil so much needs to grow will definitely take place. The PPI portfolio includes projects in key sectors such as logistics, mining, oil and gas, electric power, environmental licensing and strategic constructions.

With rational and predictable regulatory milestones, the PPI has attracted the attention of many companies around the world. In almost three years of existence, the program has held a series of extremely successful auctions and bidding processes.

The PPI has granted the private sector the concessions of 16 airports, 10 port terminals and a section of the North-South Railroad, with yields that exceeded the best expectations. Only in these projects, the investment forecast regarding those projects may reach USD 1.7 billion. By the end of 2019, there will be at least 15 other projects, with an expected investment that goes up to BRL 35.2 billions.



Qualified and
accomplished projects

PPI in **figures**

Qualified projects

248

Accomplished Projects

147

36 months
of work

Contracted
Investments

BRL 260,2
billions

Grants / Bonuses

BRL 54,1
billions

59,3%
of the portfolio
accomplished

147 Accomplished **Projects**

Energy - 94



82 transmission lines

5 generation
4 concession UHE
1 extension PCH

7 distribution
(CELG-D and Companhias de Energia do Amazonas, Piauí, Acre, Rondônia, Roraima and Alagoas)

Highways - 1



1 tender

Airports - 16



16 concessions

Ports - 27



15 concessions
9 renewals
3 transfer of rights

Oils & Gas - 7



4th Round Marginal Fields

14th and 15th Rounds Exploratory Blocks

2th, 3th, 4th, 5th Rounds of Production Sharings (PSA)

CASEMG - 1



1 privatization

The PPI's portfolio is dynamic. It's been built according to the maturity-level of the projects



1st Meeting (13/09/2016)

34 projects
25 accomplished - 73.5%
BRL 86.6 billions in investments

2nd Meeting (07/03/2017)

55 projects
42 accomplished - 76.4%
BRL 13.7 billions in investments

3rd Meeting (23/08/2017)

51 projects
39 accomplished - 76.5%
BRL 66 billions in investments

4th Meeting (08/11/2017)

Decision-taking session

5th Meeting (19/03/2018)

31 projects
28 accomplished – 90.5%
BRL 11.9 billions in investments

6th Meeting (20/06/2018)

Deliberation about Eletropaulo

7th Meeting (02/07/2018)

16 projects
13 accomplished – 81,3%
BRL 82 billions in investments

8th Meeting (06/07/2018)

2 projects
EF-118 e EF-151
To be accomplished

9th Meeting (08/05/2019)

59 projects qualified

Auctions and bidding processes' results

Contracted investments
BRL 260,2Billions

Grants obtained
BRL 54,1Billions

Sector	Grant (BRL)			Investments (BRL)
	Expected	Achieved	Average yield	
Airports	5.14 bi	8.02	56.7%	10.05 bi
Highways	-	-	-	7.8 bi
Port terminals	15.0 mi	947.3 mi	6.180%	2.97 bi
Oil & Gas	20.77 bi	27.99 bi	34.8%	176.82 bi*
Energy (Distribution)	1.35 bi	2.72 bi	101%	2.72 bi
Energy (Generation)	1.71 bi	2.28 bi	33.3%	11 bi
Total	11.06 bi	12.13 bi	9.7%	8.17 bi

Sector	Discount (BRL)			Investments (BRL)
	RAP Expected	RAP Achieved	Average yield	
Energy (Transmission lines)	7.32 bi	4.19 bi	42.4%	40.6 bi

PPI in the world

Out of the 147 accomplished projects, 55 had foreign **winning companies** or in consortium with Brazilian companies.

Brazil
China
France
Spain

Italy
Norway
Qatar
Switzerland

Portugal
Australia
India
Germany

USA
United Kingdom
Bermudas
Colombia



Projects portfolio **after the 9th CPPI's Meeting**

Railways - 11



5 concession renewals
2 new concessions
4 Investments in strategic railways

Ports & Waterways - 19



Ports:
14 leasings
2 invest. authorizations
1 Privatization
1 Feasibility assessment (Libra)
Waterway
1 Licensing

Energy - 16



4 Generations
10 Transmission Lots
1 Privatization
1 Licensing

Oil & Gas - 4



5th Round of Residual Blocks
6th Round of PSA
16th Round of Additional Petrobras' Transfer of Rights

Airports - 23



23 Concessions

COMAER - 1



1 Administrative Concession

Mining - 4



4 Concessions of Exploration of Mining Rights

Supply - 1



1 Privatization
CEASAMINAS

Highways - 17



10 Concessions
2 Feasibility assessments
5 Licensings

State-owned companies privatizations - 2



Lotex
Casa da Moeda

Regional Development - 3

2 privatizations
Hydric Infrastructure

101 projects



Project portfolio

Ongoing projects

Railroads

Ferrogrão Railway

- New railway corridor of export by Arco Norte
- Length: 933 km, plus the branches lines of Santarenzinho (32 km) and Itapacurá (11 km)
- Importance: aims to improve the outflow of agricultural production in the Midwest by means of connection, in the state of Pará, to the Port of Miritituba
- Status: greenfield
- Estimated Investment: R\$ 12.7 billion
- Estimated cargo: 25 million tons in 2020 and 42 million tons in 2050
- Auction Criteria: highest guaranteeing fee (under study)
- Concession Term: 65 years.

West-East Integration Railway (FIOL)

- Length: 537 km
- Importance: it will supply iron ore produced in the Caetité/BA region and the grain production of the West of Bahia (Minas da Bahia Mineração - BAMIN) by the Port South, a port complex to be built in the vicinity of the city of Ilhéus/BA under the responsibility of the Government of the State of Bahia. You can also establish the connection of said Port with the FNS
- Current Situation: Work performed by VALEC. It has a physical advance of 72% and received about R\$ 1.9 billion of investment.
- Auction Criteria: highest guaranteeing fee (under study)
- Projected investment: R \$ 3 billion to complete the works.



Railroads

Central-West Integration Railway (FICO)

- Length: 383 km
- Importance: it will drain grain production from the Água Boa/MT region towards the ports of Santos / SP, Itaqui / MA and, in future, Vila do Conde/PA.
- Current Situation: The EIA-RIMA and the Basic Project, contemplating the Campinorte/GO segment Água Boa/MT, were contracted by VALEC and finalized in December 2010. The section also has the Preliminary License 493/2014, whose extension has already been requested from IBAMA.
- Execution: It should be placed as consideration for the grant value in the early extension of the EFC and EFVM.
- Estimated Investment: R\$ 2.62 billion.



Railroads Renewals

- /// Malha Paulista (Rumo)
 - /// Central Atlantic Railroad S.A. (FCA)
 - /// Vitoria - Minas Railroad (EFVM)
 - /// Carajás Railroad (EFC)
 - /// MRS Logistics S.A.
-
- /// Renewal will provide investments in other
 - /// FCA: grant will be used for the implementation of the Rio-Vitória Railroad
 - /// MRS: the grant will be used in an excerpt from Ferroanel de São Paulo
 - /// EFVM: the grant will be used in the implementation of FICO



Railroads



Projects Numbers	
Investments	US\$ 12.4 billion new - US\$ 4 bi renew - US\$ 8,4 bi
Total extension	15.160 Km: new - 1.470 km renew - 5.845 km

Projetos

- Qualified (new)
- Qualified for renewals :

Dealers	Investment
— EFVM	— FICO
— MRS	
— RMP	
— EFC	

Highways

Concession of Highways BR-381 / MG and BR-262 / MG / ES

Stretch from BR-381 / MG between Belo Horizonte / MG and Gov. Valadares / MG

Stretch from BR-262 / MG / ES between João Monlevade / MG and Viana / ES

- Brownfield
- Length: 672 km, of which 605 km will be duplicated
- Estimated investments: CAPEX: R \$ 9.2 billion; OPEX: R \$ 5.7 billion
- Responsible for studies: HPT Engenharia e EPL.
- Publication of the notice: 2nd quarter / 20
- Auction: 3rd quarter / 20
- Auction Criterion: No setting
- Contract term: 30 years

Concession of Highways BR-163 / MT and BR-230 / PA

Stretch between Sinop / MT and Miritituba / PA

- Brownfield
- Extension: 970.2 km, of which 48 km considered as unpaved in the current version of the studies
- Estimated investments: CAPEX: R \$ 1.69 bi; OPEX: R \$ 1.02 bi
- Responsible for studies: Hidrovias do Brasil S.A.
- Publication of the notice: 1st quarter / 20
- Auction: 2nd quarter / 20
- Auction Criterion: No setting
- Contract term: 10 years



Highways

Concession of Highways BR-364/365 / GO / MG

Stretch between Jataí / GO and Uberlândia / MG

- Brownfield
- Extension: 437 km
- Estimated investments: R \$ 2.04 bi;
- Publication of the notice: 2nd quarter / 19
- Auction realization: 4th quarter / 19
- Auction Criterion: lowest toll fee
- Term of the contract: 30 years

Concession of Highways BR-101 / SC

Stretch between Palhoça / SC and the currency SC / RS

- Brownfield
- Extension: 220.4
- Estimated investments: R \$ 2.9 billion
- Responsible for studies: Hidrovias do Brasil S.A.
- Publication of the notice: 3rd quarter / 19
- Auction: 1st quarter / 20th
- Auction Criterion: lowest toll fee
- Term of the contract: 30 years



Highways

Concession of Highways BR-153/080/414 / GO / TO

Stretch between Anápolis / GO and Tocantins / TO

- ✓ Brownfield
- ✓ Length: 850,7 km
- ✓ Estimated investments: R \$ 7.5 billion;
- ✓ Publication of the notice: 4th quarter / 19
- ✓ Auction: 1st / 20th
- ✓ Auction Criterion: highest garanting fee
- ✓ Contract term: 30 years



Highways

Concession of Highways BR-040/495 / MG / RJ (Concer)

Stretch between Juiz de Fora / MG and Rio de Janeiro / RJ

- Brownfield
- Length: 211 km
- Estimated investments: R \$ 2.6 billion;
- Publication of the notice: 3rd quarter / 20
- Auction: 4th quarter / 20
- Auction Criterion: to be defined in the study
- Contract term: to be defined in the study

Concession of Highways BR-116/465/101 / SP / RJ (Dutra)

Stretch between Rio de Janeiro / RJ and São Paulo / SP

- Brownfield
- Length: 635 km
- Estimated investments: R \$ 10.9 bi
- Publication of the notice: 3rd quarter / 20
- Auction: 4th quarter / 20
- Auction Criterion: to be defined in the study
- Contract term: to be defined in the study



Highways

Concession of Highways BR-116/493 / RJ / MG (CRT)

Stretch between BR-116 / RJ

Stretch between Além Paraíba / RJ and BR-040 / MG

- ✓ Brownfield
- ✓ Length: 711 km
- ✓ Estimated investments: R \$ 7.9 billion;
- ✓ Publication of the notice: 3rd quarter / 20
- ✓ Auction: 4th quarter / 21
- ✓ Auction Criterion: to be defined in the study
- ✓ Contract term: to be defined in the study



Highways - Studies

Studies for concession of the Integrated Highways in the state of Paraná

BR- 153/158/163/272/277/369/373/376/476/PR and other relevant ones

- Basic features:
 - Brownfield
 - Extension: 4,114 km, of which 2,806 km of federal highways
 - Contract term: to be defined
 - Auction run: 2nd sem / 21
 - Auction Criterion: to be defined

Studies to concession 7,213 km of highways

15 road stretches in 13 UFs

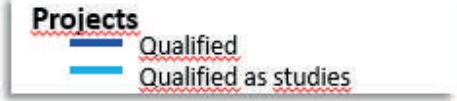
- Basic features:
 - Extension: 7,213 km of federal highways, in 15 road lots, that cross 13 Federal Units. The studies can identify the need for inclusion or exclusion of segments, or the need for composition with state highways to be federalized



Highways



Projects Numbers	
Investments	US\$ 35 bi
Extension	16.311,22 Km



Ports

Paranaguá / PR - PAR 01

- Greenfield
- Responsible for studies: EPL
- Publication of the notice: 2nd quarter / 19
- Auction held: August 9/19
- Auction Criterion: highest guaranteeing fee
- Investment Forecast: R \$ 87 million

STS 20 - Port of Santos/SP

- Brownfield
- Responsible for studies: EPL
- Publication of the notice: 2nd quarter / 19
- Auction held: August 9/19
- Auction Criteria: highest guaranteeing fee
- Investment Forecast: R \$ 219.52 million



Ports

Santos - STS 13A

- ✓ Brownfield
- ✓ Responsible for studies: EPL
- ✓ Publication of the notice: 2nd quarter / 19
- ✓ Auction held: August 9/19
- ✓ Auction Criteria: Higher value of Grant
- ✓ Investment Forecast: R \$ 110.74 million
- ✓ Concession term: 25 years



Ports - Privatization

Port of São Sebastião / SP

- Promote the privatization of the Organized Port of São Sebastião / SP and of Transport port related to this.
- Responsible for studies: MINFRA
- Publication of the notice: 1st quarter / 21
- Auction: 2nd quarter / 21
- Auction Criterion: A Definition
- Investment Forecasting: A Definition
- Paratopic term: 35 years

Codesa

- Promote the privatization of Companhia Docas do Espírito Santo
- Responsible for studies: BNDES
- Publication of the notice: 4th quarter / 20
- Auction: 1st quarter / 21th
- Auction Criterion: highest granting fee
- Investment Forecast: R \$ 1 billion
- Lead time: 35 years depending on study results



Ports

Other projects (11 terminals)

- ✓ 1 terminal at Santana Port / AP for wood chip handling: MCP-01
- ✓ 4 terminals in the Port of Itaqui / MA for liquid bulk: IQI 03, IQI 11, E12 and 13
- ✓ 2 terminals at the port of Suape / PE for container and vehicles: SUA 01 and SUA 05
- ✓ + 4 terminals at the Port of Paranaguá for solid bulk handling and vehicle movement: PAR 07, 08, 12 and XX




Ports



Projects Numbers

Investments	4.43 billion BRL
Ports rent terminals	9 terminals
Port concession terminal	2 port

Projects - Ports

 Qualified

Airports

6th Round of Airport Concessions - Blocks South, North and Central

- Basic features:
 - Brownfield
 - Airport Blocks: South, North and Central
 - Estimated investments: CAPEX: R \$ 5 billion;
 - Responsible for the studies: Public call for process to carry out the studies in progress
 - Publication date of the notice: 3rd quarter / 20
 - Date of the auction: 4th quarter / 20
 - Auction Criterion: highest garanting fee
 - Contract term: 30 years for the three blocks



Airports




Projects Numbers

Investments US\$ 1.24 billion – 6thR

Airports 22 airports - 6^aR
Viracopos

Projects

 Qualified as studies

Regional Development

Brazilian Company of Urban Trains (CBTU)

- Promote the privatization of:
 - Brazilian Company of Urban Trains (CBTU), present in the following places:
 - Belo Horizonte (RM)
 - Recife (RM)
 - João Pessoa (RM)
 - Maceió (RM)
 - Natal (RM)
 - Headquarters located in Rio de Janeiro (no operation)

Urban Trains Company of Porto Alegre S.A. (Trensurb)

- Promote the privatization of:
 - Urban Trains Company of Porto Alegre S.A. (Trensurb)
 - Present in Porto Alegre (RM)
 - Structuring of the Concession by BNDES
 - Decentralization of enterprises to State Governments with Concurrent Concession



Oil and Gas

Auction addition Petrobras transfer of rights

- Capacity: between 6 and 15 billion barrels of oil equivalent
- Granting authority: MME
- Responsible for studies: ANP
- Publication of the notice: 3rd quarter of the year
- Auction: 4th quarter./2019
- Auction Criterion: the highest percentage of the surplus in oil for the Union.
- Estimate of minimum grant value (signing bonus): R \$ 106 billion
- Contract term: 35 years, according to the Law of Sharing, without right of extension

Round 6 of bids under the pre-salt production sharing regime

- Capacity: five areas, three of which are internal to the Pre-salt Polygon (Aram, Southwest Sagittarius and Southern Cross) and two that surpass the polygon (Boomerang and North Brava)
- Signature bonus: R \$ 7.85 billion
- Granting authority: MME
- Responsible for studies: ANP
- Publication of the notice: 3rd quarter/2019
- Auction: 4th quarter./2019
- Auction Criterion: the highest percentage of the surplus in oil for the Union.
- Contract term: 35 years, according to the Law of Sharing, without right of extension



Oil and Gas

Round 16 of Bidding under concession regime

- Capacity: Thirty-six blocks, located in five maritime sedimentary basins:
- Pernambuco-Paraíba, Jacuípe, Camamu-Almada, Campos and Santos, totaling 29.3 thousand km² of area.
- Granting authority: MME
- Responsible for studies: ANP
- Publication of the notice: 3rd quarter /2019
- Auction: 4th quarter./2019
- Auction Criterion: signature bonus and investment in the minimum exploratory program, according to the bidding rules.
- Estimated minimum grant value (signing bonus): R \$ 2.35 billion
- Contract term: 27 years for the production phase, and may be extended at the discretion of the ANP.



Energy

Auction of transmission lines n° 2/2019

- Basic features:
 - Greenfield
 - Capacity expansion: 5,745 MVA
 - Extension of Transmission Lines: 2,447 Km
 - Responsible for the studies: MME and ANEEL
 - Publication of the notice: 4th quarter of 2019
 - Auction: 4th quarter of 2019
 - Estimated total investments: R \$ 3.42 billion
 - 10 units of the Federation: GO, SP, MG, RJ, AC, PA, BA, AL, CE and RS

New Energy Auction (LEN) A-4

- Basic features:
 - Total registered offer: 51,204MW, in 1,581 generation projects
 - Responsible: ANEEL, MME and EPE
 - Publication of the notice: 2nd quarter./2019
 - Auction: 2nd quarter./2019
 - Auction criterion: lower price of energy offered (in R \$ / MWh)



Energy

New Energy Auction (LEN) A-6

- Basic features:
 - Responsible: ANEEL, MME and EPE
 - Publication of the notice: 3rd quarter of the year
 - Auction: 3rd quarter./2019
 - Auction criterion: lower price of energy offered (in R \$ / MWh)

Thermonuclear Plant Angra 3

- Basic features:
 - 70% of the work performed
 - Viability depends on private partnership, of a corporate nature or not
 - Publication of the notice: 2nd half of 2019
 - Auction performance: 1st half of 2020
 - Total investments expected: approximately R \$ 16 billion



Energy

Eletrobrás

- Model: Privatization
- Responsible for coordinating studies: BNDES.
- Draft Law will bring the guidelines for privatization.
- Expected grant: R \$ 20 billion
- Employees: 24,539 thousand
- Power Generation Capacity: 46.856 GW
- Generators (total): 233 units
- Hydropower plants: 47 units
- Thermoelectric Plants: 114 units
- Wind Power Plants: 69 units
- Solar power plant: 01 unit
- Transmission Lines: 70,201 Km
- Union Shareholding - Common shares (with voting rights): 51%
- Union participation in total capital: 40.98%



Mining

Polimetálico of Palmeirópolis-TO

- /// Mining, copper, lead and zinc mining rights
- /// Responsible: CPRM
- /// Invested investments: R \$ 12 million



Enabling strategic enterprise

Integration Project of the São Francisco River with the Northeast Hydrographic Basins (PISF)

Studies for completion of works and partnership agreement for operation and maintenance

- Basic features:
 - The objective of the PISF is to increase water security for the catchment areas of the Northeast of the North that present great hydrological vulnerability
 - North axis with extension of 260 km and East Axis with 217 km
 - 390 municipalities benefited
 - 12 million people benefited
 - Investment of R \$ 10.3 billion already made
 - Estimated operational cost of R \$ 500 million per year



Economy



IRB - Disposal of Union shares

- Basic features:
 - Proposal for the inclusion of common shares issued by IRB-BRASIL RESSEGUROS S / A held by the Federal Government, corresponding to 36,458,237 ON shares (11.7%), under the National Privatization Program - PND

Sale of Debentures of VALE

- Basic features:
 - Proposal for the inclusion of the participating debentures issued by VALE S.A. held by the Federal Government, corresponding to 141,727,613 participatory debentures, within the framework of the National Privatization Program - PND

Final Remarks

- The Infrastructure agenda is one of the main priorities of the Brazilian Government
- To fill the infrastructure gap, it is necessary to attract the private sector investment
- To attract foreign investors the PPI has based its work upon 5 cornerstones:
 - Legal certainty;
 - Predictability;
 - Risk Mitigation (eg. currency variation);
 - Improvement of the Regulatory Framework Maturity Level
 - Application of International Best Practices
- To address all these challenges the PPI must foster an open, permanent channel dialogue and interaction between public and private actors



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