# PPP Public Lighting Porto Alegre - RS









### **AGENDA**



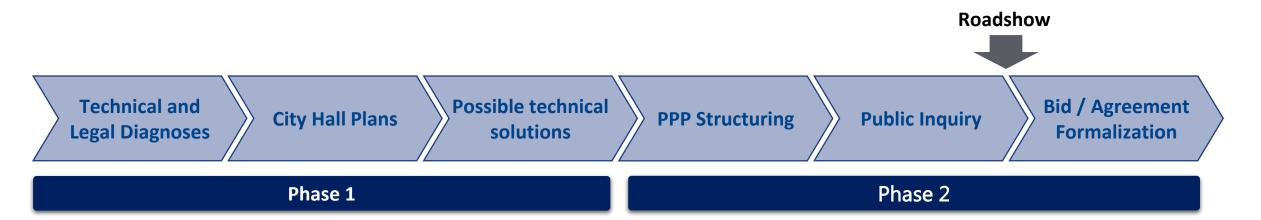
- 1. Project Overview and Modeling
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#### **General methodology of the studies**



- The National Bank of Economic and Social Development BNDES, upon technical support by Consortium Houer, RSI Engenharia, Albino and Maciel Rocha, assisted Porto Alegre in structuring this Public Lighting PPP.
- In the first phase, several studies were carried out, such as: diagnostic of the current public lighting park in Porto Alegre, available technological solutions, reference solution (not binding) and reference planning and budget.



- Then, the concession was modeled: elaboration of the call for bid, concession contract and its respective annexes contract specifications. The laws and the decrees necessary for the project were approved.
- The result are the reference studies used as a base for the elaboration of the Call for Bid of PPP: (i) Grid Diagnosis; (ii) Environmental Report; (iii) Engineering Report; (iv) Highlighted Illumination Plan; (v) Investment and Operation Plan; (vi) Economic-Financial Evaluation; and (vii) Reference Business Plan.

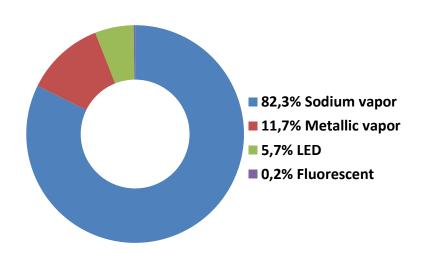


### Porto Alegre – Summary of the Public Lighting Grid

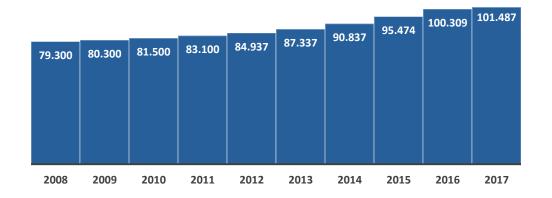


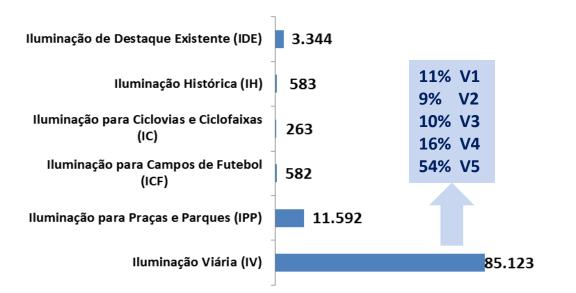
Number of points	101.5 thousand
	points
City area	496.7 km <sup>2</sup> area
Extension of the streets	~ 2.2 thousand km
Extension of the streets	streets
Bike paths and bike lanes	48 km
Squares, Parks and Sports Equipment	645
Cultural Assets for Highlighted Illumination	56
Historical Posts	393
Distribution of the Deinte by Technology	

#### **Distribution of the Points by Technology**



## History of expansion of the public lighting park (2008 -2017)







### Porto Alegre – Summary of the Public Lighting Grid



85.6%

Aerial distribution grid

100%

Photoelectric relay control

**12%** 

Exclusive PL poles

15.5%

Annual average failure rate (lamp, relay and reactor)

**Transformers** 

**Substations** 

0.33%

Annual vandalism rate for lights

0.09%

Annual collision rate

16.5 MW

**Installed Load** 

**70 GWH** 

Annual consumption

R\$27 million

Annual power cost 2018

R\$ 59.6 million

Collection CIP 2018

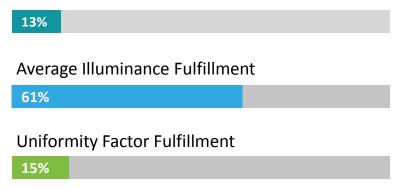


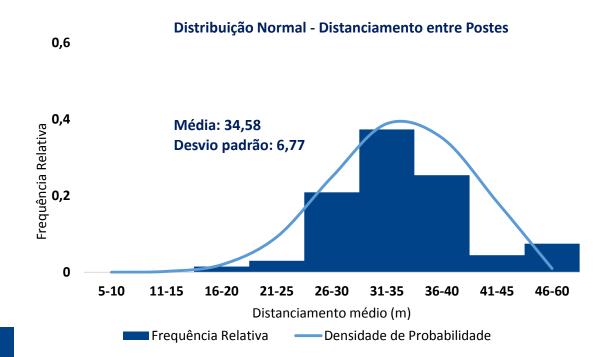
### **Grid Diagnosis Conclusions**



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#### **Compliance with ABNT NBR 5101**

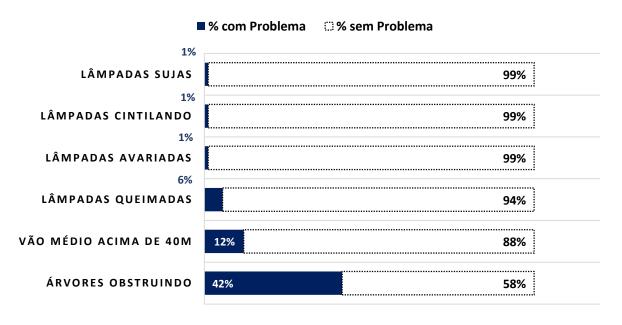




#### **Assessed Parameters:**

- ✓ Average Illuminance and Uniformity Factor (normative requirements);
- ✓ Color reproduction and color temperature index;
- ✓ Street geometry;
- Disposition and conditions of posts, arms and lights.

# POTENTIAL MOTIVATORS OF NON-COMPLIANCE WITH THE NORMATIVE CRITERIA IN NBR 5101



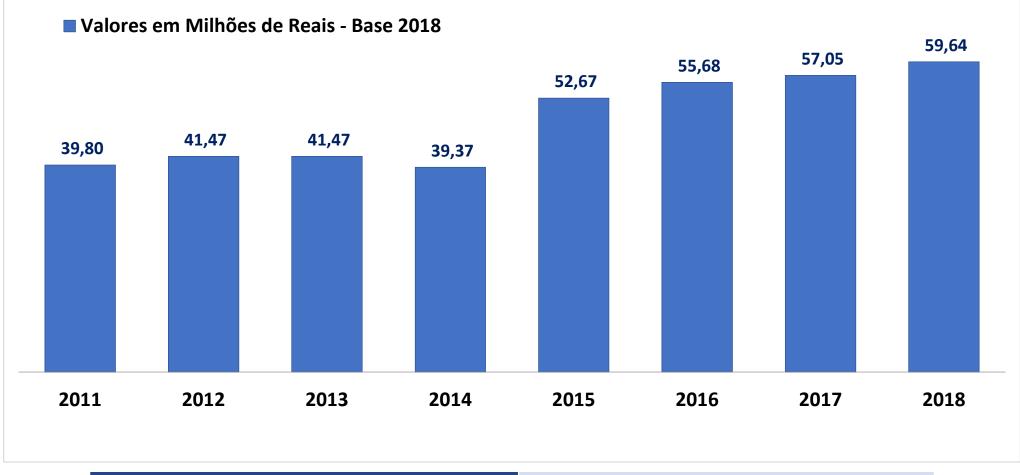






### **CIP** collection history





Collection 2018	R\$ 59.6 million
Estimation considered in the studies	R\$ 58.8 Million (base date 2018)





### Main Assumptions PPP IP Porto Alegre









- ✓ Modernization of the Public Lighting park with re-adaptation to the parameters in NBR 5101 aggregating energetic efficiency upgrade of the grid
- ✓ **Highlighted Illumination** creation of 5 Touristic Routes for highlighted illumination on monuments, façades and gardens and modernization of the existing highlighted illumination.
  - Route 1 Civic and Religious Circuit
  - Route 2 Cultural Circuit
  - Route 3 Commercial and Administrative Circuit
  - Route 4 Gasometer Circuit
  - Route 5 Farroupilha Park (Redemption Park)
- ✓ Increase of the lighting of public squares, parks and sports equipment;
- ✓ Special treatment of bike paths, bike lanes and streets of buildings with night public service (Schools, police departments, Hospitals, etc.)
- ✓ Presentation of **better luminotechnical indexes** and active and proactive provision of the services offered to the population in the city.
- ✓ Tele-management of streets V1 and V2 and Highlighted Illumination
- ✓ Operational Control Center (OCC) mirrored in the City Hall for control
- ✓ Potential development of New Services / Smart City





### Highlighted Illumination - new circuits and modernization of the current lighting BNDES



**Route 1: Civic and Religious Circuit** 13 monuments





**Legislative Assembly of the State of RS** 









**Route 2: Cultural Circuit** 13 monuments





MARGS - Art Museum of Rio **Grande do Sul** 







**Santander Cultural Building** 



**Former Customs Building** 







### Highlighted Illumination - new circuits and modernization of the current lighting BNDES



**Route 3: Commercial and Administrative Circuit** 5 monuments





**Montevideo Square** 







#### **Route 4: Gasometer Circuit** 9 monuments





**Drum - Monument of the Negro Culture** 



**Church Nossa Senhora das Dores** 



Hipólito José da Costa Museum





**House of Culture Mario Quintana** 







### Highlighted Illumination - new circuits and modernization of the current lighting BNDES



**Route 5: Route Farroupilha Park (Redemption Park)** 9 monuments



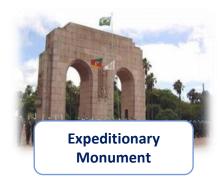




**General Education Institute** Flores da Cunha







#### **Current Highlighted Illumination**









<sup>\*</sup> Replacement and maintenance only







### Adjustment in the Legislation



#### Amendment of Municipal Law nº 9.875/05

Increase of the limit of commitment of the Net Current Revenues to 5% in PPPs

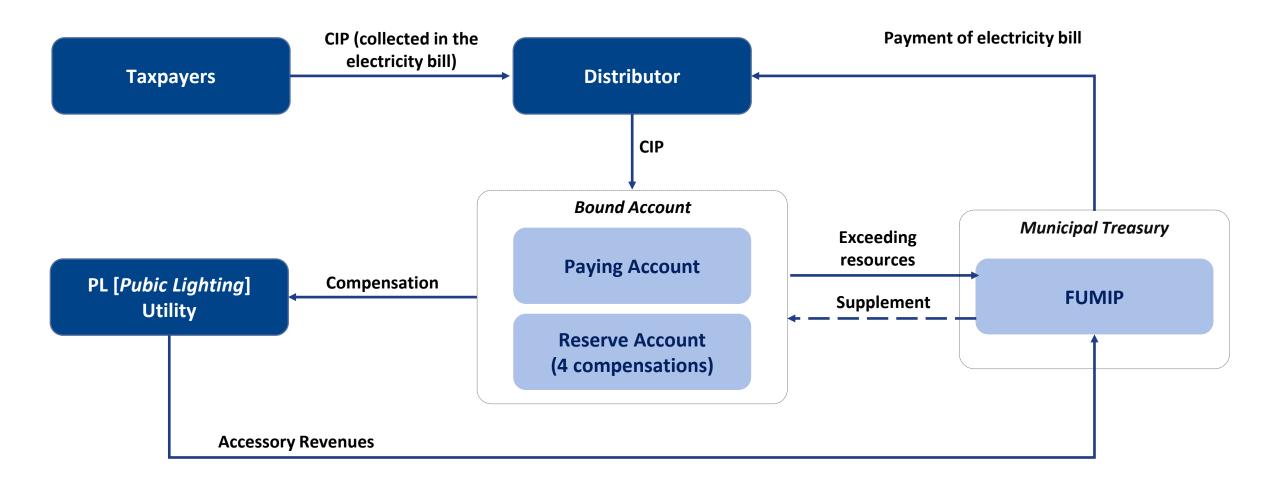
# Complementary Law nº 840, dated December 27, 2018.

- ✓ Authorization to contract PPP to provide public lighting services
- ✓ Binding the revenues of CIP to PPP
- ✓ **Authorization to transfer CIP fully** to the bound account
- ✓ **Authorization** for the CIP **binding** to be done through contract, upon contracting a **financial institution**.
- ✓ Change in the calculation base of CIP indexing an aliquot as a multiplication factor of the energy rate B4a
- ✓ Designation of the electric power distributor as taxation responsible
- ✓ Maintenance of the current billing mechanism by means of electricity bill
- ✓ The resources can be unbound only after the amounts enter FUMIP
- ✓ Provision of the work of an **independent entity** to verify the performance of PPP











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### Main financial parameters of the project



amount in constant currency	
Concession Period	20 years
Contract Amount	R\$ 741.5 million
Modernization Period	24 months after enforcement of the contract
Maximum Compensation	R\$ 3.21 million a month
Capital Cost (WACC)	9.58% real a.y.
Investments 1st Cycle	R\$ 134 million in the first 2 years of concession
Reinvestment	R\$ 145 million in the rest of the concession
Operational Costs	R\$ 6.8 million recurring cost per year (average)
Accessory services	Prior approval of the Business plan by the City Hall and share of the revenues between the City Hall and PPP



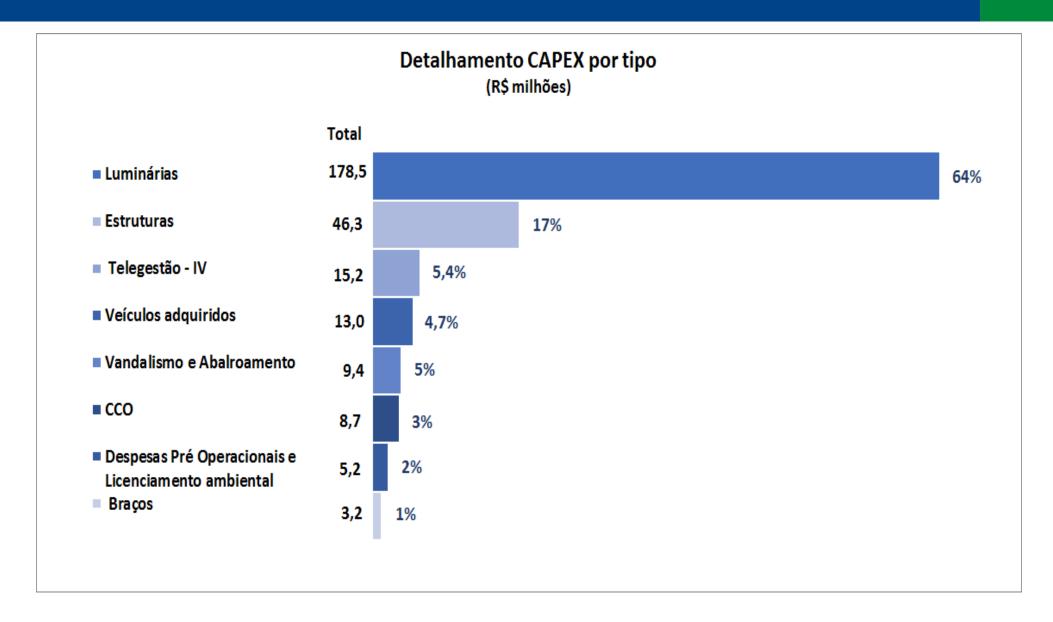






### **Investments (CAPEX)**









**OPEX details by type** 

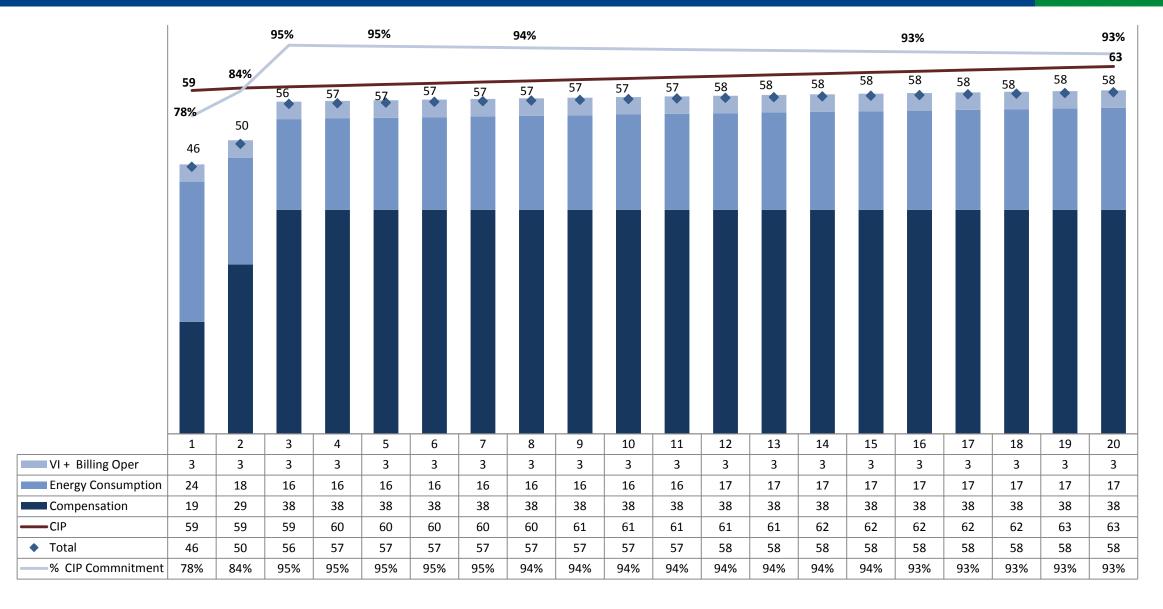
(R\$ million)

	Ano 1	Ano 3+
Support Team/OCC team and Utilities	4.59	2.37
Maintenance (Field)	4.00	1.47
Independent Verifier and/ or Financial Agent	0.10	0.10
Data Transmission	0.17	0.36
Call Center (Service Desk)	0.30	0.13
SPE	1.94	1.64
Insurance	1.11	0.29
Bonds	0.26	0.11
OPEX / point (R\$)	123	64



### Financial income - City Hall vision - green flag collection

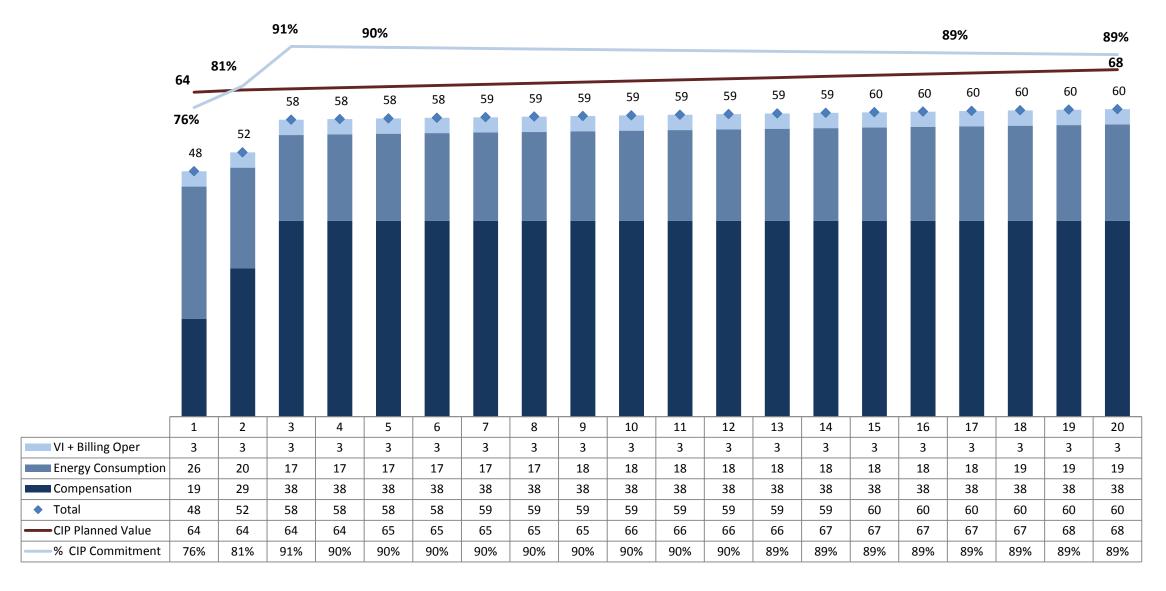






### Financial income - City Hall vision - flag regime collection







### Change in quality and performance of the PL park with the project



#### **Current park**

13% of the park meets the criteria in NBR 5101

**Predominant low-power sodium lamps** 

Average IRC 30; yellowish aspect

Frequent dark spots

Annual consumption: 70 GW/year

#### **Modernized and Efficiency-Upgraded Park**

Performance parameters comply with NBR 5101



Adaptation of the power to the consumption reduction by 45.8%



**Average IRC ≥ 70; natural colors** 



Elimination / big reduction of dark spots



Consumption at 37.9 GWh/year





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### Call for Bid of Public Lighting PPP of Porto Alegre (1/3)



Object of PPP	Delegation of public lighting service provision in the Municipality of Porto Alegre by means of administrative concession, including <b>implementation</b> , <b>installation</b> , <b>recovery</b> , <b>modernization</b> , <b>improvement</b> , <b>efficiency upgrade</b> , <b>expansion</b> , <b>operation</b> and <b>maintenance</b> .	
	National legal entities or foreign companies authorize to work in Brazil, including complementary social security entities, financial institutions and investment funds, alone or in consortium.	
Conditions for Participation	<b>Prohibition</b> for participation of companies, which have been contracted by BNDES for elaboration of studies or legal entities, which are technically, commercially, economically or financially bound to these companies related to the studies that have been used as a base for the preparation of the Call for Bid.	
Technical Qualification (1/2)	<u>Financial Structuring</u> : realization of infrastructure enterprise with investments of at least <b>R\$</b> 112 million. The sum of proving documents will be admitted, provided that the minimum investment by proving documents shall be <b>R\$ 56 million</b> .	



### Call for Bid of Public Lighting PPP of Porto Alegre (2/3)



**Technical Qualification (2/2)** 

**Operational:** provision of operation and preventive and corrective maintenance services of at least 40 thousand public lighting points for the period of at least 1 (one) year, including contract responsibility for the supply of materials and specific equipment, such as lights, lamps, arms and supports for installation, projectors, connectors, conductors, reactors, photoelectric relays and sockets for photoelectric relays. The sum of proving documents will be admitted, provided that the minimum quantity by proving documents shall be 20 thousand pubic lighting points.

**Professional**: to have a professional in their staff with higher education degree and holding the following technical responsibility certificates: (i) Execution of civil works and services for implementation, operation and maintenance of public lighting points; (ii) elaboration of Electrical Projects for aerial and underground circuits of squares, monuments and/or avenues; (iii) elaboration of Luminotechnical projects of squares, monuments and/or avenues including presentation of infographics

**Other requirements** 

Proposal bond: R\$ 7.4 million; (1% of the Contract Amount: R\$ 741.50 million);

Certificate of clearance for bankruptcy and judicial recovery request;

Proof of taxation and labor regularity.





### Call for Bid of Public Lighting PPP of Porto Alegre (3/3)



Bidding Performance	Brasil, Bolsa, Balcão - <b>B3 (signed contract)</b>	
Criterion of Judgment and Proposed Enforceability	Lowest amount of the maximum monthly compensation (ceiling R\$ 3.21 million);  Realization of the open outcry stage for the best proposals (limited to 20% difference from the 1st place)  Letter from a national or foreign Financial Institution.	
Conditions of the Concessionaire for the signature of the contract	<ul> <li>Within 30 days from approval, which can be extended once for equal period:</li> <li>✓ Proof of constitution of SPE situated in Porto Alegre.</li> <li>✓ Subscription of the capital stock of SPE at the amount of at least R\$ 40.5 million and pay-ff of the capital in reais at an amount equivalent to at least 50% of the subscribed amount;</li> <li>✓ Constitution of performance bond of the Contract (R\$ 37 million 5% of the estimated contract amount);</li> <li>✓ Receipt for payment to BNDES for the performance of studies related to the object of Concession and to B3 for the performance of the auction;</li> </ul>	



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### Overview of the Call for Bid of Public Lighting PPP of Porto Alegre (1/2)



Concession Period	20 years.	
Remuneration of the utility	Compensation adjusted annually by IPCA and bound to the fulfillment of the milestones for modernization, efficiency upgrade and performance targets.	
	From the achievements of the milestones, CP will be increased until reaching the level of maximum monthly CP offered within the scope of the bid.	
	Furthermore, CP will be proportional to the Performance Factor measures along the entire period of PPP (at least 80%).	
	The City Hall will be responsible for the electricity bill and the payment to CEEE.	
Electricity bill	The Concessionaire will be entitled with the right to a bonus on the electricity bill, in case it generates extra savings in the energy consumption, considering that it shall share part of this result with the City Hall.	
Contributions	No contributions by the Granting Authority.	
Guarantees - Reserve Account	Deposit of <b>50%</b> of the amount corresponding to <b>4 (four)</b> maximum monthly <b>compensations</b> as a condition to start Phase I of PPP. Deposit of other <b>50% to start Phase II.</b>	
Independent Verifier (IV)	IV will provide support to the inspection by the Granting Authority of the process of remuneration of the Concessionaire, technical analysis of re-balance requests, among other obligations.	
	The City Hall will be responsible to hire IV.	







### Overview of the Call for Bid of Public Lighting PPP of Porto Alegre (2/2)



Contract reviews	Ordinary Review: review of the Strategic Plan, technological innovations, guidelines on handling information and the specifications and technical parameters of the Concession  Extraordinary Review: extraordinary events according to the allocations of risk through Marginal Cash Flow	
Contract performance bond	From signature until 120 days after the expiry of the contract term: up to R\$ 37 million. (5% of the contract amount)	
Pay-off of the Capital Stock of SPE	Obligation to pay the capital stock off: 50% for signature and the 50% left as condition to start Phase II, totaling R\$ 40.5 million.	
	Engineering risk insurance	
Insurances	Nominated risk insurance (fire, explosion, lightning, accidents, electrical damages)	
	Civil Liability insurance	
Reversible Assets	All assets necessary for the provision and the continuity of the services shall be reverted at the end of the Concession, already cleared from any lien or charge	
Accessory Revenues	Possibility to explore accessory activities private after approval of a Business Plan by the Public Authority, sharing the revenues at proportion of up to 15% of the Gross Revenues with the Public Authority.	
Desclution of Controvers	Technical Committee	
Resolution of Controversy	Arbitration Chamber	



### General summary of the services to be provided



#### Registration of the PL Grid

- ✓ Re-counting and characterization of PL points
- ✓ Street classification
- ✓ Measurement of energetic consumption with CEEE

#### **OCC Implementation**

- ✓ Service Center (call center and Internet)
- ✓ Operation management and telemanagement
- ✓ Project management
- ✓ Management of the electricity consumption
- ✓ Performance management
- ✓ Asset management
- ✓ Availability of mirror OCC for the city hall

#### **Operation and maintenance**

- ✓ Predictive, preventive and immediate corrective maintenance
- ✓ Deadlines for attending impact remuneration
- ✓ Full Operation of the Park, including points of private investment.

#### **Modernization and Efficiency Upgrade**

- ✓ Luminotechnical re-adaptation
- ✓ Reduction of Energetic Consumption

#### **Highlighted illumination**

- ✓ 5 Touristic Circuits
- ✓ Valuation of the Cultural Property and the living areas

#### **Tele-management System**

✓ Implementation on streets with higher flow (V1 and V2) and the touristic routes.

#### **Material Management**

- ✓ Disposal of materials
- ✓ Management of the quality and the suitability of the materials

#### **Expansion of the grid**

- Mechanism of the credit bank for new streets and street extension
- ✓ Vertical growth in the ordinary scope of the contract







### **Credit bank**



Credit bank	✓ It represents a credit for request of the City Hall to what refers to implementation and operation of new Public lighting points under given conditions.	
	✓ On the contract effective date, it is started with 1,400 credits.	
	✓ On each anniversary of the contract effective date, 1,400 credits more are added to the pre- existing balance.	
	✓ The credits do not expire.	
Horizontal Growth of the City	Pre-defined expansion projects and streets that have been expanded, extended or created after the beginning of the Concession	
Receiving of points for Operation and Maintenance	Points installed by entrepreneurs	
Prompt discretionary demands	Reallocation and extraordinary demands	
They do not consume credits from the bank	✓ Repressed Demand: expansion due to lack of infrastructure in existing public streets.	
	✓ Elimination of Dark Points: adaptation of the infrastructure to meet the performance parameters.	
	✓ Vertical Vegetation Growth: adaptation because of change of the street class over the contract term.	





#### **Credit bank**



Based on CAPEX and OPEX estimations in the Reference Business Plan, each type of request / type of street consumes given number of credits, according to the table below:

		Number of Credits	
Type of Demand	EXPANSION Structure	If Streets V1 and V2*	If Streets V3, V4, V5, Squares and Parks, Bike Paths
PL points in new public locations and expanded public locations. Adaptation by PUBLIC LIGHTING POINT installed by ENTREPRENEURS	Arm tip	2.21	1.00
	Aerial distribution grid	4.94	3.73
	Exclusive underground distribution grid	8.24	7.03
New placement	-	3.15	3.15
Extraordinary demand	<b>Complementary Lighting</b>	2.21	1.00
Incorporation of 100 points for O&M	-	3.11	1.30

<sup>(\*)</sup> Sidewalks with analogue classification: V1-P1, V2-P2, V3-P3, V4-P4 and V5-P4



#### **PP Time Line**





#### **Preparation for PPP**

#### SPE:

signature

- Provisional OCC
- Contracting Insurance
- Pay-off of the 50% left of the capital stock

#### **City Hall:**

- Contracting financial institution (bound account)
- Initial constitution of the guarantee system
- Transfer of bound assets
- Approval of the Transition
   Plan

### <u>Preparation for modernization and efficiency</u> upgrade of the grid

#### SPE:

**Date** 

- Start of O&M of the park
- Modernization and Operation Plan
- · Elaboration of the registration of the grid
- OCC
- Conclusion of the pay-off of the capital stock

#### **City Hall:**

- Approvals of the registers and the Modernization and Operation Plan
- Start of the compensation payment
- Completion of the guarantee system

- Modernization and efficiency upgrade
- Remuneration of the Concessionaire depends on the achievement of the 3 milestones for modernization and efficiency upgrade of the park and the maintenance of the performance indicators along the concession.







#### **Payment System**



In the calculation of the Effective Monthly Compensation (CME), the maximum value of the compensation (CM\_MAX) is considered, multiplied by the efficiency upgrade and modernization factor of the PL park (FME) and the performance factor of the concessionaire (FDG).

CME = CM\_MAX \* FDG \* FME + Bonus for energy savings

CME	Amount of the Effective Monthly Compensation of the Concessionaire	
CM_MAX	Amount of the Maximum Monthly Compensation defined by contract between the Granting Authority and the Winning bidder (auction value).	
FDG (General Performance Factor)	A factor related to the performance of the concessionaire, which is related to the Performance Measurement System (SMD). $0.8 \le FDG \le 1$ .	
FME (Modernization and Efficiency Upgrade Factor )	a factor for adjustment of the compensation for achievement of the Concession milestones. <b>0.5</b> $\leq$ <b>FME</b> $\leq$ <b>1.</b>	
Bonus	The total revenues may also be impacted by the BCE index, which corresponds to extra reduction in the energy consumption as of the 3rd Milestone.	



### **Payment System**



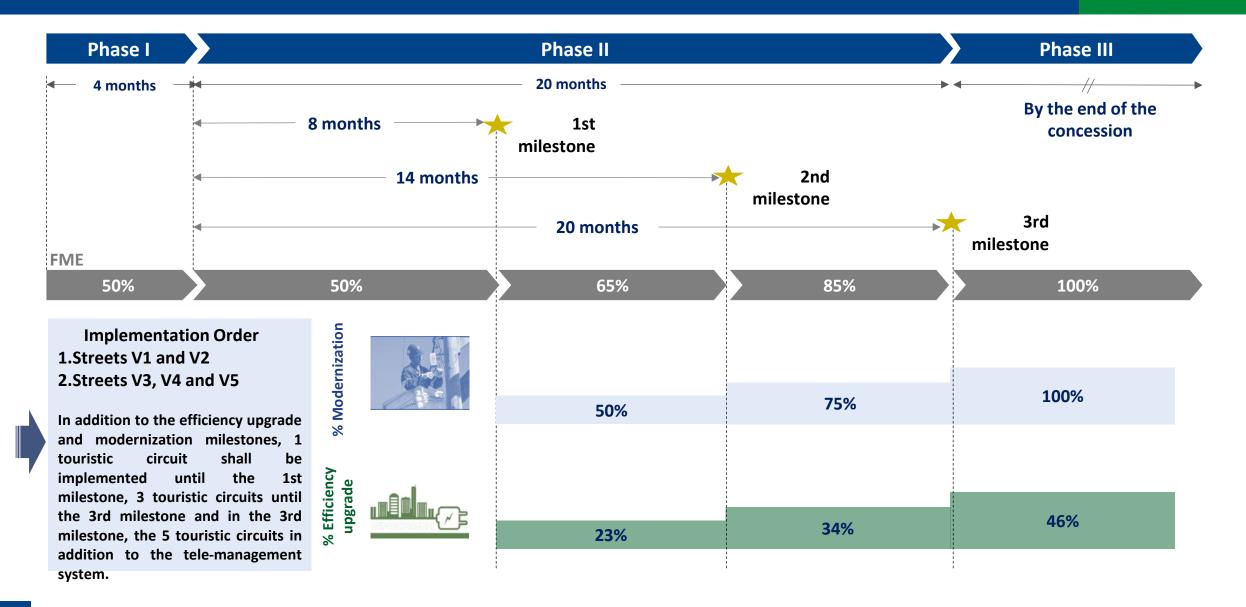
#### There are 3 pillars in the payment system:

Implementation Milestones	3 milestones with objective dates and parameters, which aim at modernization (adaptation) and efficiency upgrade of the park.  Thus, correspondence between the performance of the private in the execution of the investments versus its due remuneration is assured.
Performance Index	The Performance Index evaluates, for example:  a) The level of suitability of the lighting;  b) The level of efficiency through reduction of the energy consumption;  c) The quality of the operation and the service to the population.
Bonus	<ul> <li>Exceptional performance of the private partner in reducing the energy consumption is shared with the city hall, assuring:</li> <li>a) Alignment of the incentive for the private partner to try to increase its operational efficiency and adopt the best technologies continuously.</li> <li>b) The possibility of the city hall to use part of the benefits pursuant to the exceptional performance of the grid, the technological evolution of the equipment and the progress in the sector regulation as well.</li> </ul>



#### **Time Schedule of the Implementation Milestones - FME Calculation**

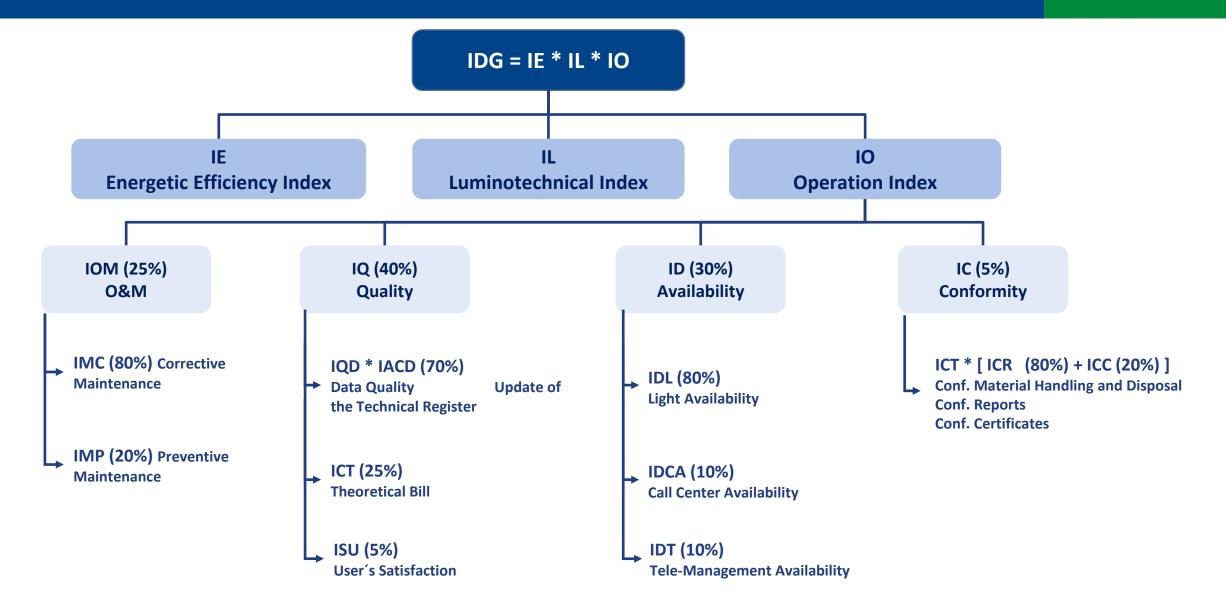






### **General Performance Index (IDG)**







#### **Performance Measurement System**



<b>Energetic</b>	<b>Efficiency</b>	Index
Lineigenie	Lillerency	IIIGCA

It monitors the maintenance of the minimum levels of energetic efficiency upgrade achieved in the Public Lighting park during the entire period of the Contract.

#### **Luminotechnical Index**

It assesses the quality of the Public lighting service provided by PPP for all locations under two luminotechnical requirements. average Illuminance and uniformity factor, considering that for vehicle streets classified as V1, V2 and V3, average luminance and global luminance uniformity shall also be assessed.

**Luminance**: how much light is reflected by a surface; this is what provide sensation of clarity in the environment.

**Illuminance**: this is volume of light falling upon given surface.

**Uniformity**: it is defined as the ratio between the minimum and average value of luminance.

**FDG** 

IDG Value	Corresponding FDG Value	
≥0.94	1	
≥0.90 <0.94	0.94	
≥0.80 <0.90	=	
<0.80	0.80	

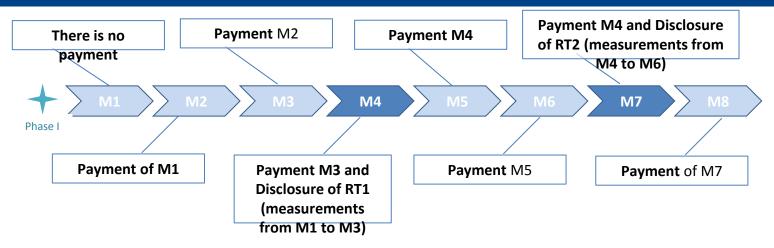
- (i) Fine at the amount of R\$ 1 million in case IDG < 0.80 is obtained for 3 consecutive quarters or 5 non-consecutive quarters in the period of 5 years;
- (ii) The GRANTING AUTHORITY make declare **OBSOLESCENCE of the CONCESSION** in case **IDG** < 0.6 is obtained for 6 consecutive quarters or 10 trim on-consecutive quarters.





### **Calculation Methodology and Payment**





- ✓ 6-Month grace period: IDG=1 (obligation to measure remains)
- ✓ Month 7, IDG from the quarter started in month 4 falls upon
- ✓ Monthly measurements (when applicable) and Quarterly Reports.
- ✓ IDG applied on the further months
- ✓ RTi Quarterly Report related to Quarter i
- ✓ Any divergence does not interrupt the payment process, considering that adjustments pursuant to the process of conflict solution are implemented in the monthly compensation after the decision

**Concessionaire measures** indicators and sends RT

IV performs diligence and sends the report to the **Financial Institution** 

**Financial Institution** receives report and starts the payment process

Financial Institution pays to the Concessionaire





#### The Role of the Independent Verifier (IV)



#### Contracting

#### Responsibility of the City hall of Porto Alegre

The contracting shall follow the rules in Law 8.666/93 and shall be re-bidden periodically along the validity of the PPP.

#### Scope of operation (example)

- i. To assess the performance and calculate the monthly remuneration due to the concessionaire from the effective monthly compensation periodically;
- ii. The evaluate the economic-financial balance of the contract and review the marginal cash flow;
- iii. To evaluate the calculation of the adjustment of amounts provided in the contract;
- iv. To check the costs/expenses and main and extraordinary revenues;
- v. To monitor the performance indexes of the concession execution and validate the obtained data;
- vi.To validate all technical and economic-financial data of the requests for ordinary and extraordinary review;
- vii. To analyze the scenario that has given rise to the claim against the contract terms applicable thereto, generating a technical opinion at the end. The technical opinion shall support the economic-financial analysis, in which the contract manager and the independent verifier shall evaluate and dimension, if any, the economic-financial impact of the claim on the project;
- viii. To recommend the parameters for economic-financial re-composition of the contract or for adjustment of the compensation amount, consolidating the results from his/her analysis in a technical-financial report.

### **Contract - risks and responsibilities**



	RISKS AND RESPONSIBILITIES	PUBLIC	PRIVATE
1	Elaboration of the municipal registration of the grid		✓
2	Plans, projects and technology used to comply with the parameters in the technical standards and the contract, including suppression of dark points and repressed demand		$\checkmark$
3	Modernization and expansion of the grid to meet the technical and the contract parameters		✓
4	Investments, costs or additional expenses pursuant to increase of the operational costs and the cost for purchase or maintenance of equipment		✓
5	Highlighted illumination provided in the contract		✓
6	Adjustment of Public Lighting due to street classification along the PPP (vertical growth)		✓
7	Expansion of the grid pursuant to the horizontal growth of the city: expansion of streets, creation of new streets and Operation and maintenance of PL points received from third parties <b>up to the limit of the Credit Bank</b>		✓
8	Extraordinary demands, such as request of additional points or increase of the luminous flow in places, which already meet the standards and the criteria defined in the contract for specific reasons (for example, complementary lighting around a cultural point of interest) up to the limit of the Credit Bank		✓
9	Demand of the Granting Authority of items 7 and 8 above beyond the limit of the Credit Bank	✓	
10	Delay or omission of the Granting Authority in the measures it is responsible for	✓	
11	Technological upgrade to update the contract parameters		✓



### **Contract - risks and responsibilities**



RISKS AND RESPONSIBILITIES		PUBLIC	PRIVATE
11	Extraordinary technology innovation requested by the Granting Authority	✓	
12	Operational relationship with CEEE-D		✓
13	Operational relationship with CEEE-D, when the Granting Authority does not assure its delegation to the private	✓	
15	Consumption reduction targets in the electricity bills		✓
16	Failures to provide the service pursuant to interruption of the power supply	✓	
17	Damages to the equipment pursuant to failures in the power supply		✓
18	Share: Accessory Revenues (up to 15% of the gross revenues) and Asset Alienation (50% - 50% economic gain)	✓	✓

