



# Transformation & Restructuring of the Puerto Rico Electric Power Authority

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#### **Discussion Topics**

- Introduction—Lisa Donahue
- PREPA Background
- CRO Mandate
- PREPA Challenges
- PREPA Initiatives
- Fuel Discussion
- Regulatory/Environmental Compliance
- Vision For PREPA



#### Introduction

- Puerto Rico Electric Power Authority's (PREPA) Chief Restructuring Officer selected by PREPA Governing Board in September 2014
- Managing Director and global leader of the Turnaround and Restructuring Practice at AlixPartners, a global business and advisory firm
- Prior to appointment as PREPA's Chief Restructuring Officer helped turn around a number of other power companies including:
  - Calpine Corp. an independent power producer operating in Texas, California, Canada and Mexico
  - Atlantic Power Corp. a publicly traded power and infrastructure company
  - SemGroup, L.P. a mid-stream oil & gas, pipeline, storage and commodity trading company
- Each company faces different challenges All assignments have one thing in common Transform the business
  operation and restructure the company's financial condition to secure a self sustaining company.
- Outlay the current status of PREPA, the transformation and the ultimate recovery plan





#### **PREPA Background**

- Prior to CRO arrival, PREPA had reached a financial crisis in the summer of 2014
- This crisis did not arise overnight factors that led to the crisis:
  - Combination of recurring negative cash flows
  - Ongoing recession
  - Outdated generation facilities
  - Substantial debt maturities
  - Inability to access the capital markets which created a severe financial and liquidity crisis that threatened PREPA's ability to operate, including its ability to continue purchasing fuel to run its power plants and provide electricity to Puerto Rico
- Facing a deadline to pay nearly \$700 million to fuel line lenders in mid-August PREPA entered into forbearance agreements with its fuel line lenders and other key financial creditors, including insurers and bondholders controlling more than 60% of PREPA's \$8.3 billion of outstanding power revenue bonds (the "Forbearing Creditors")
- The Forbearance Agreements were the first step in addressing PREPA's financial situation by:
  - Setting a framework for a consensual path towards PREPA's restructuring
  - Proving operational flexibility by permitting PREPA to use construction reserve funds for operating purposes
  - \* Increasing PREPA's liquidity by removing any obligation to make sinking fund payments totaling nearly \$45 million each month
- The breathing space afforded under the Forbearance Agreements has allowed PREPA to begin the work necessary to turnaround its operations and develop a new business and operating plan
- Since the Forbearance Agreements were originally entered into in August 2014, they have been extended through April 30th and we expect they will be extended again



#### CRO Mandate

- Selected by PREPA's governing board as chief restructuring officer in September 2014 after a robust search process, including interviewing several potential candidates
- Direct report to the Board and working alongside PREPA's management and serve at the discretion of the Board
- The CRO is broadly responsible for developing and implementing PREPA's financial and operational restructuring, on terms approved by PREPA's Governing Board
- As part of achieving a financial and operational restructuring, these are some of the CRO's specific responsibilities:
  - Developing a business plan
  - Implementing revenue improvement and cost reduction plans
  - Overseeing and implementing cash and liquidity management activities
  - Improving PREPA's ability to analyze, track and collect accounts receivable
  - Improving PREPA's capital expenditure plan
  - Developing a plan to improve PREPA's generation, transmission, distribution and other operations



#### **PREPA Challenges**

- Once a crown jewel of Puerto Rico, PREPA's situation has deteriorated over the years to become one of the island's most challenged public corporations
- These challenges include:
  - Lack of institutionalized processes and procedures
  - Outdated systems and information technology ("IT")
  - Frequent changes of employee positions and responsibilities with each electoral cycle -staffing decisions are made often without regard for prior experience or expertise given the nature of PREPA's role in the political process
  - Customer collection history is poor due to unreliable and outdated billing systems and because PREPA does not take sufficient actions to collect
  - Theft of power remains high and costly
  - Generation infrastructure is old and outdated results in an unusually high rate of forced outages and reliance on expensive fuel



#### PREPA Plant – Costa Sur Built 1962-1973





#### PREPA Plant – Palo Seco Built 1960-1970





#### **PREPA Challenges Continued**

- Inventory controls are below industry standards
- Procurement practices focus on a large number of small vendors, with payments to over 14,000 entities in fiscal year 2014
- Three-quarters of PREPA's vehicle fleet is technically obsolete PREPA's maintenance and repair shops are focused on breakdowns and as a result routinely fall behind on preventative maintenance
- \* PREPA has limited visibility into fleet movements because it has no central tracking or performance measures
- PREPA's IT systems are not integrated resulting in duplicate data, poor data utilization, and poor data quality
- PREPA's customer service infrastructure is disorganized and ineffective
- Safety remains a serious issue







#### **PREPA Initiatives**



In addition to annual savings of \$200-400 million the team is also executing on initiatives generating an incremental \$200-300 million of one time savings

Initiatives generating benefits of approximately \$130 million have been implemented to date



#### **Transformation of PREPA: Milestones and Timeline**





#### The Fuel Supply Chain Varies Across the Different Power Units



**Main Generation Units** 



#### **Proposed Generation - Fuels Forecasting Approach**

costs

The output is a shared forecast



13



## **Fuel Forecasting Tool Has Been In Use Since October**

Extract dispatch model by unit										1	
					DAILY LOG						
				YEAR: 2014	MONTH: 10 DA	Y: 5	WD7	Y: 1		_	
				12440. 2014	FUEL	LOW	LOW	HGH	HGH		
	CAP	MW	MBTU	HRATE	COST	LIM	REG	REG	LIM	HRS	ŚMWH
CC S JUAN 5	220	4,776.62	36,092.71	7,556.11	804,289.90	100	140	200	220	24	\$168.
S JUAN 7	100	2,007.48	21,824.93	10,871.78	344,113.60	50	70	90	100	24	\$171.
S JUAN 8	100	2,040.00	20,150.24	9,877.56	317,709.00	50	70	90	100	24	\$155.
S JUAN 9	100	1,923.64	19,404.79	10,087.51	305,955.30	50	70	90	100	24	\$159.
P SECO 1	85	1,320.00	13,579.11	10,287.20	215,228.90	40	40	55	55	24	\$163.
P SECO 2	85	1,664.91	16,810.88	10,097.12	266,452.60	40	40	78	78	24	\$160.
AGUIRRE 2	450	6,038.87	63,707.78	10,549.61	1,039,392.00	180	230	390	450	24	\$172.
ECO 1-2	530	10,868.21	110,242.50	10,143.58	519,760.20	180	254	507	507	24	\$47.
AES	510	5,448.00	53,383.51	9,798.73	309,298.80	180	200	227	227	24	\$56.
C CYCLE GT 1-1	55	150.00	1,964.00	13,093.37	43,494.87		50	50	50	3	\$289.
AERO MAYA 1	55	275.00	2,829.23	10,288.13	63,705.92		55	55	55	5	\$231.
AERO MAYA 2	55	81.00	979.05	12,087.15	22,045.47		27	27	27	3	\$272.
AERO MAYA 3	55	275.00	2,827.67	10,282.44	63,670.64		55	55	55	5	\$231.
AERO MAYA 4	55	220.00	2,279.78	10,362.65	51,333.85		55	55	55	4	\$233.
SOUCON5 75%	410	9,077.52	88,194.43	9,715.69	1,352,285.00	180	230	390	410	24	\$148.
SOUCON6 75%	410	9,301.89	89,633.66	9,636.06	1,374,353.00	180	230	390	410	24	\$147.

Generate fuel	consumption	by unit
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Plant	Aguirre	Aguirre	Palo Sec	Palo Seco	: San Juan	San Juan	San Juan
	AGUIRR	AGUIRR	P SECO	P SECO	S JUAN	S JUAN	S JUAN
Unit	E 1	E 2	1	2	7	8	9
Fuel	# 6	# 6	# 6	# 6	# 6	# 6	# 6
Consumption per HR	510	510	122.5	122.5	137.4	137.4	137.4
5-Oct	0	12,240	2,940	2,940	3,298	3,298	3,298
6-Oct	0	12,240	2,940	2,940	3,298	3,298	3,298
7-Oct	0	12,240	2,940	2,940	3,298	3,298	3,298
8-Oct	0	12,240	2,940	2,940	3,298	3,298	3,298
9-Oct	0	12,240	2,940	2,940	3,298	3,298	3,298
10-Oct	0	12,240	2,940	2,940	3,298	3,298	3,298
11-Oct	0	12,240	2,940	2,940	3,298	3,298	3,298

Fuel Oil (# 6)											
Date Aguirre Palo Seco San Juan Costa Sur Sub Total											
5-Oct	12,240	5,880	9,893	6,665	34,678						
6-Oct	12,240	5,880	9,893	6,665	34,678						
7-Oct	12,240	5,880	9,893	6,665	34,678						
8-Oct	12,240	5,880	9,893	6,665	34,678						
9-Oct	12,240	5,880	9,893	6,665	34,678						
10-Oct	12,240	5,880	9,893	6,665	34,678						
11-Oct	12,240	5,880	9,893	6,665	34,678						
12-Oct	12,240	5,880	9,893	6,665	34,678						
13-Oct	12,240	5,880	9,893	6,665	34,678						
14-Oct	12,240	5,880	9,893	6,665	34,678						
15-Oct	12,240	5,880	9,893	6,665	34,678						
16-Oct	12,240	5,880	9,893	6,665	34,678						
17-Oct	12,240	5,880	9,893	6,665	34,678						

Generate	e fuel foreca	st with mini	mum
inventory	y levels and	target batch	n sizes

	Aguirre				Palo Seco				
	Cons.	Inventory	·	Suggeste	Cons.	Inventory		Suggeste	
Date	Forecast	Balance	Inv. Days	d order	Forecast	Balance	Inv. Days	d Order	
		300,000		0		100,000		0	
5-Oct	12,240	287,760	24	0	5,880	94,120	16	0	
6-Oct	12,240	275,520	23	0	5,880	88,240	15	0	
7-Oct	12,240	263,280	22	0	5,880	82,360	14	80000	
8-Oct	12,240	251,040	21	0	5,880	156,480	27	0	
9-Oct	12,240	238,800	20	0	5,880	150,600	26	0	
10-Oct	12,240	226,560	19	0	5,880	144,720	25	0	
11-Oct	12,240	214,320	18	0	5,880	138,840	24	0	
12-Oct	12,240	202,080	17	0	5,880	132,960	23	0	
13-Oct	12,240	189,840	16	0	5,880	127,080	22	0	
14-Oct	12,240	177,600	15	68000	5,880	121,200	21	0	
15-Oct	12,240	233,360	19	0	5,880	115,320	20	0	
16-Oct	12,240	221,120	17	0	5,880	109,440	19	0	
17-Oct	12,240	208,880	15	0	5,880	103,560	18	0	
18-Oct	12,240	196,640	13	68000	5,880	97,680	17	0	

# Save \$3-4M in Annual Cost of Capital And A One Time \$36M by Maintaining Inventory levels the LTM August 2014 Average Inventory Levels





Maintain inventory levels aligned with expected units consumption Includes a one time reduction of \$36M

#### Fuel Market Changes Have Created Significant Cost Arbitrage Between the Different Fuel Sources





• Fuel arbitrage is opportunistic but it can be capitalized given the way the indexes behave in the market place

1) Costa Sur NG pricing is until March  $31^{st}$ , 2015



#### **Sourcing Strategy**





## **Regulatory Compliance – The Puerto Rico Energy & Relief Act (Act 57)**

- PREPA is making significant progress towards addressing local and federal regulatory requirements
- To comply with its obligations under Act 57, PREPA has contracted with Siemens
  - Siemens is assembling a comprehensive integrated resource plan that addresses generation, transmission, distribution, and fuel options
  - The Siemens integrated resource plan is an essential building block for PREPA's overall recovery plan, and will be used to update and refine PREPA's long-term business plan and financial forecasts

PREPA is on schedule to meet the July 1, 2015 filing deadline required by Act 57

Act 57 also requires that PREPA participate in a rate review process –

PREPA has contracted with Navigant Consulting to complete a rate review study

Navigant's work is another key building block that will allow PREPA to update and refine the work it has already completed on its long-term business plan and financial forecasts



#### **Environmental Compliance**

- PREPA has also taken a series of steps towards an executable compliance plan for federal environmental regulatory standards, including the Mercury and Air Toxics Standards, commonly referred to as the "MATS"
- PREPA anticipates that 8 of its 14 units subject to MATS will comply with the standards by the applicable deadline of April 16, 2015
- Four units likely will not be able to comply with the MATS by the applicable deadline: Palo Seco units 3 4, and San Juan units 9 10
  - On December 3, 2014, PREPA requested a one-year extension of the MATS compliance deadline for the four units at Palo Seco and San Juan
  - The request was recently denied by the Puerto Rico Environmental Quality Board as PREPA's compliance plans for those units are still in formative stages
  - The preliminary plan for these units—which is part of the Siemens IRP work—is to replace them with new, more-efficient unit(s)
  - Construction of the new unit(s) will require capital, but will also result in significant cost savings and emissions reductions, by burning cleaner fuel and burning less of it



#### **Vision For PREPA**

#### Vision – TRANSFORM PREPA INTO A MODERN AND SELF-SUSTAINING UTLITY AND REDUCE THE ALL –IN RATE CHARGED TO CONSUMERS OVER TIME

An overview of the plan to achieve this vision includes:

- I. Mechanisms to allow PREPA to operate more independently
  - ✓ Make PREPA an efficient and effective place to work that can plan and staff itself beyond the next election cycle
  - ✓ Focus must be on improving its ability to meet the immediate and long-term needs of its customers
  - ✓ PREPA's board and management structure will need to be independent and focused on best business practices
- II. Create financial stability
  - ✓ Sustainable capital structure
  - ✓ Robust capital investment program to modernize PREPA's generation facilities and transmission and distribution network
- III. Update PREPA's rate structure
  - ✓ The new rate will reflect actual operating costs, capital expenditures, financing costs, and realized revenue
- IV. A strategy and roadmap to comply with MATS and other EPA regulations, critical components to make PREPA environmentally compliant
- V. Recommendations to revise the procedures governing contributions in lieu of taxes ("CILT"), and improvements to PREPA's collection mechanisms
- VI. Diversify PREPA's fuel supply mix over time to decrease commodity price risk
  - ✓ More modern units will give PREPA more flexibility to maximize its use of renewables Eventually reducing customer costs and result in a more reliable and secure system
- VII. Continued implementation of the operational improvements across PREPA

### The CRO Team is Progressing Multiple Work Streams In Collaboration With PREPA To Transform The Utility







# **Questions?**