Derivatives Use Report

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Hedging Summary

Introduction

As determined by the University of Illinois System (the System) Derivatives Use Policy (The Policy) which was approved by the Board of Trustees in July 2010 and updated November 2014, the System's exposure to an individual counterparty is measured by the Net Termination Exposure (NTE). The Prairieland Energy, Inc. (PEI) Board of Directors approved a PEI-specific derivatives use policy at their October 20, 2014 meeting (The PEI Policy) and updated December 2017. The PEI Policy is similar to the System policy, but also provides requirements for physical delivery transactions (which apply to the PEI forward purchase contracts). This report provides information on the System's financial position and potential obligations should there be an early termination of any or all of its existing financial and physical derivative transactions, including positions held by PEI. This is a snapshot of counterparty exposure, only as it relates to derivatives.

Counterparty Financial Health

The Policy requires regular due diligence reviews of the financial strength of System/PEI counterparties. It is the responsibility of the departments that originate each hedging transaction to review the related counterparties regularly in compliance with \$12 of the Policy.

Bond credit ratings are used as a proxy for counterparty financial strength. The Policy requires an A-/A3 (S&P / Moody's) rating to qualify as a counterparty. The financial institutions JPMorgan Chase Bank, Morgan Stanley, and Deutsche Bank (credit support provider for Loop Financial Products) all meet this requirement. Morgan Stanley and Deutsche Bank's split ratings of BBB+/A3 and A-/Baa2 respectively only meet the qualification with one rating agency. The Capital Financing office should continue to monitor the financial condition and outlook of their counterparties.

The PEI Policy requires an A-/A3 rating to qualify for OTC financial transactions and a BBB-/Baa3 or BB+/Ba1 with LOC for physical delivery transactions. The energy companies all meet the PEI Policy qualifying credit rating for physical delivery transactions. TransAlta however has a split rating of BBB-/Ba1. Rail Splitter is not rated and therefore provided a \$2.5 million LOC from HSBC Bank which is rated AA-/Aa3 (previous LOC with Comerica Bank ended). EDF is not rated by S&P but is rated Baa2 by Moody's. FC Stone is not rated, but the futures transaction is an exchange traded derivative with InterContinental Exchange (ICE), therefore, per the PEI Policy, the use of a nationally recognized exchange is sufficient to demonstrate the counterparty's qualifications. ICE is rated A/A2. PEI should continue to monitor the financial condition and outlook of their counterparties.

System Total NTE

The combined current notional value of these derivative agreements is \$81.34 million. Should there be <u>immediate</u> termination of all agreements, the combined NTE for all outstanding agreements is a negative \$6.94 million, unfavorable to the System (SWAP NTE negative \$3.66 and utilities NTE negative \$3.28). The overall immediate risk of termination is low since the counterparties have no ability to terminate these transactions unilaterally unless certain triggers are met (see Financial Hedging NTE - Interest Rate Swaps).

Financial Hedging NTE (Interest Rate Swaps)

The aggregate mark-to-market value or total NTE of all interest rate swaps is a negative \$3.66 million, which would be a liability of the System to each of the swap counterparties if the swaps were terminated. The immediate risk of all swaps terminating is low since the counterparties cannot unilaterally terminate these contracts unless certain triggers are met, including: (i) a University of Illinois System default, or (ii) the long-term rating on the System's bonds is withdrawn, suspended or reduced below BBB+/Baa1 on the UIC SC 2008 and reduced below BBB/Baa2 on the HSFS 2008 bonds.

All University of Illinois System bond ratings and the State of Illinois are listed below.

System	Moody's	Outlook	S&P	Outlook
AFS	A1	Negative	A-	Stable
COPs	A 1	Negative	A-	Stable
UIC South Campus	A2	Negative	A-	Stable
HSFS	Baa1	Negative	A-	Stable
State of IL GO	Baa3	Negative	BBB-	Stable

Financial Hedging NTE (Futures - Energy Commodity Transactions, Financially Settled)

The total NTE of all PEI futures contracts is a negative \$0.30 million, unfavorable to PEI/the System. If all of the agreements were terminated PEI would have an obligation to FC Stone.

Hedging Summary

Physical Hedging NTE (Forward Purchases - Energy Commodity Transactions, Physical Delivery)

The total NTE of all physical energy hedges is a negative \$2.98 million, unfavorable to PEI/the System. If all of the agreements were terminated PEI would have an obligation to BP, EDF, Exelon, TransAlta, Shell and Railsplitter of \$0.21 million, \$0.04 million, \$0.05 million, \$0.02 million, \$0.27 million, and \$2.39 million respectively.

Counterparty Concentration

Current notional/contract values with all counterparties are below The Policy limit.

Material Events¹

None reported.

Summary of Collateral Posted by the System (Thresholds)

With respect to the System, the threshold requirement in all of the interest rate swap agreements is infinite, which means the University of Illinois System is never required to post collateral. Threshold requirements are not addressed in the energy forward purchases contracts, except for Shell and TransAlta which are \$10 million each, the same as the System guarantee. Margin exposure (total equity) with INTL FC Stone Financial is \$285,196.

The System does provide guaranty agreements to PEI's energy commodity vendors including \$10 million each with Shell, TransAlta, and BP Canada Energy Marketing Corp., \$5 million with Exelon, \$2.5 million to Rail Splitter, and \$3 million to EDF. System guarantees with Sequent Energy Management for \$12.5 million and NRG for \$1.25 million were terminated in September 2017. The System also provided a \$2 million guarantee to PJM Interconnection for physical procurement at UIC and a \$1 million guarantee to MISO for physical procurement at UIUC but both are unrelated to physical or financial hedging.

Summary of Collateral Held by the System (Thresholds)

The collateral requirements for counterparties on the interest rate swaps are more risk tolerant than The Policy (see table below). All of the swap agreements were approved by the Board of Trustees and executed prior to The Policy.

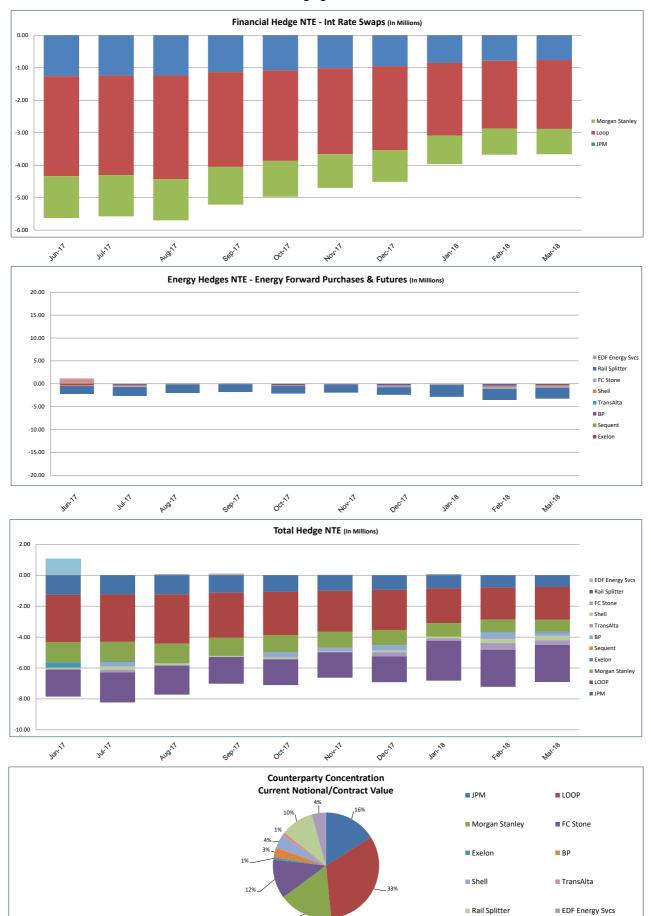
The contracts with Exelon, BP, Rail Splitter, and EDF do not address collateral thresholds with bond rating triggers. Exelon, BP, and EDF provide recourse through Credit or Adequate Assurances provisions if reasonable grounds exist regarding unsatisfactory creditworthiness or performance. It is incumbent upon PEI to request Performance Assurance if a rating change triggers the Policy collateral requirements. This provision allows PEI to be proactive, and not necessarily wait for a downgrade event before requesting Performance Assurance. Rail Splitter has provided a \$2.5 million LOC from HSBC Bank. The Shell and TransAlta contracts provide bond rating triggered collateral thresholds in line with The PEI Policy, however, not to exceed the parental company guarantee.

Collateral Requirements of Counterparties / Thresholds

The Policy The PEI Policy							
Counterparty Credit Rating S&P / Moody's	Maximum NTE - Net of Collateral FINANCIAL	Maximum NTE - Net of Collateral PHYSICAL					
AAA / Aaa Category	\$35 million	\$35 million					
AA / Aa Category	\$30 million	\$30 million					
A / A Category	\$20 million	\$20 million					
BBB+ / Baa1 or Below	\$0 million	NA					
///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////					
BBB/Baa Category		\$10 million					
BB+/Ba1 or Below		\$0 million					

Interest Rate Swaps							
Counterparty Credit Rating S&P / Moody's	Maximum NTE - Net of Collateral						
A / A2 and above	Infinite						
A-/A3	\$10 million						
BBB+ / Baa1 or Below	\$0 million						

¹Items reflected in the Material Events section relate to the Policy requirements and may not conform to material events for financial reporting.



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			Rated Entity/	Bond Rating	Derivative		Underlying Asset /	Ori		Current Notional / Contract	Market Value (in	*MTM or NTE	System Guarantee Limit	Counterparty Threshold (Collateral
Org	Responsible Unit	Counterparty	Exchange	(S&P / Moody's)	Туре	Expires	Liability		n Millions)	(in Millions)	Millions)	(in Mill)	(in Mill)	Requirements)
	Rate Swaps):		Qual	ifying Rating A-	/ A3									
	Capital	Morgan Stanley Capital Services,												Rating
System	Financing Capital	Inc. JP Morgan Chase	Morgan Stanley JP Morgan Chase	BBB+/A3	Int Rate Swap	1/15/2022	•	\$	27.40	13.34		(0.78)		Triggers Rating
System	Financing Capital	Bank, N.A. Loop Financial	Bank, N.A. Deutsche Bank AG	A+ / Aa3	Int Rate Swap	1/15/2022	UIC SC 2008	\$	26.85	13.04		(0.76)		Triggers Rating
System	Financing	Products, I, LLC	(CSP)	A- / Baa2	Int Rate Swap	10/1/2026	HSFS 2008 SUBTOTAL SWAPS	\$	40.88 95.13	26.36 52.74		(2.12) (3.66)		Triggers
(PEI Futu	res Contracts):	INTL FOCtors	InterCentinental		Future		Nat Gas Mult							
PEI	Utilities Admin	INTL FCStone Financial Inc.	InterContinental Exchange (ICE)	A / A2	Futures Contract	6/30/2018	FY2018	\$	0.95	0.13	0.12	(0.01)		
						6/30/2019	Nat Gas Mult FY2019	\$	4.31	4.31	4.23	(0.08)		
						6/30/2020	Nat Gas Mult FY2020	\$	2.86	2.86	2.74	(0.12)		
						6/30/2021	Nat Gas Mult FY2021	\$	1.35	1.35	1.28	(0.07)		
						6/30/2022	Nat Gas Mult FY2022	\$	0.70	0.70	0.69	(0.01)		
						6/30/2023	Nat Gas Mult FY2023	\$	0.36	0.36	0.35	(0.01)		
						SUBTOTA	L Futures FCStone	\$	10.53	9.71	9.41	(0.30)		
Physic	al Hedges		0	alifying Rating		SUB	TOTAL FINANCIAL	\$	105.66	62.45		(3.96)		
-	rgy Forward Pur	chases):	BBB-/Baa3	B or BB+/Ba1 wit	h LOC									
		BP Canada Energy			Forward		Natural Gas							
PEI	Utilities Admin	Marketing Corp.	Inc. (PCG)	A- / A2	Purchase	6/30/2018	Mult FY18 SUBTOTAL BP	\$	10.55 10.55	2.42 2.42	2.21 2.21	(0.21) (0.21)	10.00	Adequate
		EDF Energy	EDF Trading		Forward		Nat Gas Mult							Assurance
PEI	Utilities Admin	Services, LLC	Limited (PCG)	NR / Baa2	Purchase	6/30/2019	FY2019	\$	3.52	3.52	3.48	(0.04)		
							SUBTOTAL EDF	\$	3.52	3.52	3.48	(0.04)	3.00	Adequate Assurance
		Exelon Generation	Exelon Generation		Forward		Electricity Mult							
PEI	Utilities Admin	Company LLC	Company LLC	BBB / Baa2	Purchase	6/30/2018	FY18	\$	0.66	0.16	0.14			
						6/30/2019	Electricity Mult FY19	\$	0.44	0.44	0.41			
							SUBTOTAL Exelon	\$	1.10	0.60	0.55	(0.05)	5.00	Credit Assurance
		TransAlta Energy	TransAlta Corp		Forward		Electricity Mult							
PEI	Utilities Admin	Marketing (US) Inc.	(PCG)	BBB- / Ba1	Purchase	6/30/2018	FY18 Electricity Mult	\$	0.99	0.34	0.33			
						6/30/2019	FY19 Electricity Mult	\$	0.41	0.41	0.40			
						6/30/2022	FY22	\$	0.13	0.13	0.13			
						SU	BTOTAL TransAlta	\$	1.53	0.88	0.86	(0.02)	10.00	Rating Triggers
		Shell Energy North	Shell Energy North		Forward		Electricity Mult							
PEI	Utilities Admin	America (US), L.P.		A / A3	Purchase	6/30/2018	FY18	\$	3.95	0.92	0.84			
						6/30/2019	Electricity Mult FY19	\$	1.61	1.61	1.50			
						6/30/2020	Electricity Mult FY20	\$	0.57	0.57	0.51			
						6/30/2021	Electricity Mult FY21	\$	0.24	0.24	0.22			
						0/00/2021	SUBTOTAL Shell		6.37	3.34	3.07	(0.27)	10.00	Rating
/DEL Bon	owahlaa):													Triggers
	ewables):	Rail Splitter Wind			Forward		Electricity Mult							
PEI	Utilities Admin		(LOC)	AA- / Aa3	Purchase	6/30/2018		\$	0.96	0.25				
						6/30/2019	FY19	\$	0.96	0.96				
						6/30/2020	Electricity Mult FY20	\$	0.96	0.96				
							Electricity Mult							
						6/30/2021	FY21 Electricity Mult	\$	0.96	0.96				
						6/30/2022	FY22	\$	0.96	0.96				
						6/30/2023	Electricity Mult FY23	\$	0.96	0.96				
						6/30/2024	Electricity Mult FY24	\$	0.96	0.96				
							Electricity Mult							
						6/30/2025	FY25 Electricity Mult	\$	0.96	0.96				
						6/30/2026	FY26	\$	0.96	0.96				
						6/30/2027	Electricity Mult FY27	\$	0.20	0.20				
							OTAL Renewables		8.84	8.13	5.74	(2.39)	2.50	LOC
						SUB	TOTAL PHYSICALS	\$	31.91	18.89	15.91	(2.98)		
	Total						GRAND TOTAL	¢	137.57	81.34		(6.94)		•

*Negative termination value means the System or PEI is obligated to the counterparty (transaction is "underwater").

CSP - Credit Support Provider LOC - Letter of Credit provided PCG - Parental Company Guarantee provided WR - Withdrawn Rating