

1 Q. Reference: Newfoundland and Labrador Hydro's 2009 Capital Budget Application,  
2 Volume II, Tab 21, *Hardwoods Gas Turbine Plant Life Extension Upgrades*.

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4 Please provide, for both Hardwoods and Stephenville gas turbine plants, a table  
5 summarizing by year all capital cost incurred by Hydro at each site since 2007.

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8 A. The following table summarizes by year all actual capital expenditures incurred by  
9 Hydro for Hardwoods and Stephenville Gas Turbine Plants from 2007 to 2015  
10 inclusive.

## Gas Generator Engine Refurbishment – Hardwoods and Stephenville

Project Description	Application Type	Actual Capital Expenditure by Year (\$000)										Total Actual Capital Expenditure
		2007	2008	2009	2010	2011	2012	2013	2014	2015		
<b>Combined Projects</b>												
Gas Turbine Assessments - Hardwoods, Stephenville	Capital Budget Application	\$ 224	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 224
Vibration Monitoring Systems Upgrade - HWD and STV	Management Approval < \$50 K	\$ 34	\$ 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 73
<b>Total Combined Projects</b>		<b>\$ 258</b>	<b>\$ 39</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 297</b>
<b>Stephenville</b>												
Replace Fuel Piping - Stephenville	Capital Budget Application	\$ 145	\$ 114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 258
Replace Automatic Voltage Regulator on Gas Turbine - STV	Capital Budget Application	\$ -	\$ -	\$ 258	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 258
Gas Turbine Refurbishment - Stephenville	Supplemental Application	\$ -	\$ -	\$ -	\$ 1,269	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,269
Upgrade Glycol Systems - Stephenville	Capital Budget Application	\$ -	\$ -	\$ -	\$ 3	\$ 518	\$ 113	\$ 512	\$ -	\$ -	\$ -	\$ 1,147
Replace Drainage Piping - Stephenville Gas Turbine	Management Approval < \$50 K	\$ -	\$ -	\$ -	\$ 72	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72
Upgrade Gas Turbine Operator Console - Stephenville	Capital Budget Application	\$ -	\$ -	\$ -	\$ -	\$ 52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52
Rewind Gas Turbine Alternator - Stephenville	Supplemental Application	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,758	\$ 3,942	\$ -	\$ -	\$ -	\$ 5,700
Upgrade Gas Turbine Plant Life Extension - Stephenville	Capital Budget Application	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,716	\$ -	\$ -	\$ 2,716
Purchase Insulating Blanket - Stephenville Gas Turbine	Management Approval < \$50 K	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35	\$ -	\$ -	\$ 35
Upgrade Gas Turbine Plant Life Extension - Stephenville	Capital Budget Application	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,614	\$ 2,614
<b>Total Stephenville</b>		<b>\$ 145</b>	<b>\$ 114</b>	<b>\$ 258</b>	<b>\$ 1,344</b>	<b>\$ 570</b>	<b>\$ 1,871</b>	<b>\$ 4,454</b>	<b>\$ 2,751</b>	<b>\$ 2,614</b>	<b>\$ 14,119</b>	
<b>Hardwoods</b>												
Replace Fuel Piping - Hardwoods	Capital Budget Application	\$ 167	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 167
Upgrade Operator Console - Hardwood Gas Turbine	Management Approval < \$50 K	\$ 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31
Upgrade Gas Turbine Plant Life Extension - Hardwoods	Capital Budget Application	\$ -	\$ -	\$ 540	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 540
Upgrade Gas Turbine Plant Life Extension - Hardwoods	Capital Budget Application	\$ -	\$ -	\$ -	\$ 705	\$ 1,169	\$ 506	\$ 1,114	\$ -	\$ -	\$ -	\$ 3,493
Hardwoods Gas Turbine Alternator Replacement	Supplemental Application	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,058	\$ -	\$ -	\$ -	\$ 7,058
Purchase Insulating Blanket - Hardwoods Gas Turbine	Management Approval < \$50 K	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33	\$ -	\$ -	\$ 33
Hardwoods Gas Turbine Engine Refurbishment	Supplemental Application	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,252	\$ -	\$ 1,252
<b>Total Hardwoods</b>		<b>\$ 198</b>	<b>\$ -</b>	<b>\$ 540</b>	<b>\$ 705</b>	<b>\$ 1,169</b>	<b>\$ 506</b>	<b>\$ 8,172</b>	<b>\$ 33</b>	<b>\$ 1,252</b>	<b>\$ 12,574</b>	
<b>Grand Total</b>		<b>\$ 601</b>	<b>\$ 152</b>	<b>\$ 798</b>	<b>\$ 2,048</b>	<b>\$ 1,739</b>	<b>\$ 2,377</b>	<b>\$ 12,626</b>	<b>\$ 2,784</b>	<b>\$ 3,866</b>	<b>\$ 26,990</b>	