

1 Q. **Volume I: 2018 Capital Projects Overview**

2 Please provide the percentage breakdown of the gas turbine expenditures as
 3 requested in PUB-NLH-01 for the last 5 years.

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5 A. The following is the breakdown of the actual 2013-2016 and planned 2017 gas
 6 turbine expenditures indicating the percent of total per year for each plant.

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Stephenville Gas Turbine

Project Description	Actual Capital Expenditure by Year (\$000)				
	2013	2014	2015	2016	2017F
Upgrade Glycol Systems	\$ 512	\$ -	\$ -	\$ -	\$ -
Rewind Gas Turbine Alternator	\$ 3,942	\$ -	\$ -	\$ -	\$ -
Upgrade Gas Turbine Plant Life Extension	\$ -	\$ 2,716	\$ -	\$ -	\$ -
Purchase Insulating Blanket	\$ -	\$ 35	\$ -	\$ -	\$ -
Upgrade Gas Turbine Plant Life Extension	\$ -	\$ -	\$ 2,614	\$ -	\$ -
Gas Turbine Life Extension	\$ -	\$ -	\$ -	\$ 3,107	\$ -
Refurbish Gas Turbine Engine (#202204)	\$ -	\$ -	\$ -	\$ 422	\$ -
Replace Fuel Piping	\$ -	\$ -	\$ -	\$ 6	\$ -
Purchase Shaker Table	\$ -	\$ -	\$ -	\$ 16	\$ -
Gas Turbine Life Extension	\$ -	\$ -	\$ -	\$ -	\$ 591
Refurbish Gas Turbine Engine (#202204)	\$ -	\$ -	\$ -	\$ -	\$ 94
Replace Fuel Piping	\$ -	\$ -	\$ -	\$ -	\$ 155
Gas Turbine Tools Procurement	\$ -	\$ -	\$ -	\$ -	\$ 38
Purchase Capital Spares	\$ -	\$ -	\$ -	\$ -	\$ 85
Total Stephenville	\$ 4,454	\$ 2,751	\$ 2,614	\$ 3,551	\$ 964
Percent of Total Annual Expenditures	35%	68%	19%	33%	17%

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Hardwoods Gas Turbine

Project Description	Actual Capital Expenditure by Year (\$000)				
	2013	2014	2015	2016	2017F
Upgrade Gas Turbine Plant Life Extension	\$ 1,114	\$ -	\$ -	\$ -	\$ -
Hardwoods Gas Turbine Alternator Replacement	\$ 7,058	\$ -	\$ -	\$ -	\$ -
Purchase Insulating Blanket	\$ -	\$ 33	\$ -	\$ -	\$ -
Gas Turbine Engine Refurbishment	\$ -	\$ -	\$ 1,252	\$ -	\$ -
Refurbish Gas Turbine Engine (#202205)	\$ -	\$ -	\$ -	\$ 2,116	\$ -
Replace Fuel Piping	\$ -	\$ -	\$ -	\$ 6	\$ -
Procure Flow Meter	\$ -	\$ -	\$ -	\$ 7	\$ -
Procure Vibration Analyzer	\$ -	\$ -	\$ -	\$ 22	\$ -
Install Station Service Artificial Neutral	\$ -	\$ -	\$ -	\$ 42	\$ -
Overhaul Snow Door	\$ -	\$ -	\$ -	\$ 51	\$ -
Refurbish Gas Turbine Engine (#202205)	\$ -	\$ -	\$ -	\$ -	\$ 414
Replace Fuel Piping	\$ -	\$ -	\$ -	\$ -	\$ 144
Gas Turbine Life Extension	\$ -	\$ -	\$ -	\$ -	\$ 302
Gas Turbine Tools Procurement	\$ -	\$ -	\$ -	\$ -	\$ 44
Purchase Capital Spares	\$ -	\$ -	\$ -	\$ -	\$ 100
Total Hardwoods	\$ 8,172	\$ 33	\$ 1,252	\$ 2,244	\$ 1,005
Percent of Total Annual Expenditures	64%	1%	9%	21%	18%

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Holyrood Gas Turbine

Project Description	Actual Capital Expenditure by Year (\$000)				
	2013	2014	2015	2016	2017F
100 MW Combustion Turbine	\$ -	\$ 110	\$ 9,323	\$ -	\$ -
Inspect and O/H Combustion Turbine	\$ -	\$ -	\$ -	\$ 4,738	\$ -
TOTAL	\$ -	\$ 110	\$ 9,323	\$ 4,738	\$ -
Percent of Total Annual Expenditures	0%	3%	68%	44%	0%

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Happy Valley Gas Turbine

Project Description	Actual Capital Expenditure by Year (\$000)				
	2013	2014	2015	2016	2017F
Upgrade Gas Turbine Controls	\$ 61	\$ 1,129	\$ -	\$ -	\$ -
Replace Alternator Stub Shaft	\$ -	\$ -	\$ 484	\$ -	\$ -
Install Transfer Switch	\$ -	\$ -	\$ -	\$ 148	\$ -
Overhaul Gas Turbine	\$ -	\$ -	\$ -	\$ -	\$ 3,715
TOTAL	\$ 61	\$ 1,129	\$ 484	\$ 148	\$ 3,715
Percent of Annual Expenditures	0%	28%	4%	1%	65%

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Total Gas Turbines (2013-2017F)

	Actual Capital Expenditure by Year (\$000)				
	2013	2014	2015	2016	2017F
	Total Gas Turbines	\$ 12,687	\$ 4,023	\$ 13,673	\$ 10,682