Fiscal Year 2011 Packwood Annual Operating Budget



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Summary

The Packwood Lake Hydroelectric Project (Packwood), the first electrical generating project undertaken by Energy Northwest, began commercial operation in June 1964. Occupying 660 acres of the Gifford Pinchot National Forest in south central Washington, Packwood consists of a dam at Packwood Lake; a five mile long system of pipeline, tunnels and Penstock; and a 27,500 kilowatt-rated, underground powerhouse located 1,800 feet below the lake elevation. The reservoir is fed by Upper Lake Creek and several small tributaries that rely exclusively on direct rainfall and snow melt for their water supply.

Electrical energy from Packwood is currently sold directly to Snohomish PUD who purchases all of the project output. The sales agreement provides a predetermined rate for all firm delivery, per the contract schedule and the Mid-Columbia based rate for any deliveries above firm, or secondary power. Any revenue in excess of net funding requirements is distributed by Energy Northwest to the 12 members in the subsequent fiscal year or by participants' decision, retained to apply towards future costs.

The total net Fiscal Year 2011 program and capital cost combined is estimated to be \$3,493,000 (Table 1), with associated net funding requirements of \$3,968,000 (Table 5). The difference between total program cost and net funding requirements is due to depreciation and loan retirement (Table 4).

Key Assumptions/Qualifications

- Generation is estimated at 84,640 MWh, which reflects a decrease to the 30year average of the plant output (based on average water year) due to increased by-passed flows as a requirement for relicensing.
- This budget includes the current sale agreement with Snohomish County PUD. This contract is for a one year period ending in October 1 of Fiscal Year 2011, with an option for a one year extension.
- No refund to members is expected in Fiscal Year 2011.
- Capital costs are budgeted at \$1,355,000 (Tables 1 and 5) for Fiscal Year 2011. This is for the turbine upgrade.
- In Fiscal Year 2010, relicensing costs are shown as Capital Costs (Tables 1 and 5).
- Lewis County was declared a disaster area in November 2006 because of torrential rains and flooding (Reference Event No. FEMA-1671-DR-WA). During this event a large slide occurred adjacent to the Packwood Project underground pipeline. Energy Northwest has submitted a "Public Assistance Grant" request to the Washington State Military Department (Emergency Management Division) and Federal Emergency Management Agency (FEMA) for financial aid to stabilize and repair the slide area. FEMA denied the first and second requests for aid to cover the costs of stabilization of the slide area. Energy Northwest will take no further action on this matter. Major repairs were completed in Fiscal Year 2008 to assure stability of the pipeline through the slide area, which cost \$1,025,000. A bank line of credit for \$1,300,000 was approved. In Fiscal Year 2010, the bank line credit balance of \$809,000 was paid off with a \$650,000 draw on a loan from Energy Northwest's General Fund Performance Fee Account and \$159,000 in cash from the project. Packwood's \$650,000 draw brought the loan balance from the Performance Fee Account to \$1,000,000. This budget assumes that \$500,000 of this loan is paid off in Fiscal Year 2011.
- The Packwood project received a grant from the American Recovery & Reinvestment Act of 2009 for a turbine upgrade project in Fiscal Year 2010. The majority of this project will occur in Fiscal Year 2011.

Description		FY 2011 Budget		Original FY 2010 Budget		Variance
Operating Costs						
Operating & Support Services	\$	1,905	\$	1,669	\$	236
Generation Taxes		17 25		19 32		(2)
Depreciation	<u></u>		<u></u>		<u></u>	(7)
Subtotal Operating Costs	<u>\$</u>	1,947	<u>\$</u>	1,720	\$	227
Maintain License and Permits Interest/Financing (Net)	\$	160 31	\$	89 34	\$	71 (3)
Total Cost	\$	2,138	\$	1,843	\$	295
Total Net Generation (MWh)		84,640		88,720		(4,080)
Cost of Power (\$/MWh)	<u>\$</u>	25.26	\$	20.77	\$	4.49
Total Capital Cost	\$	1,355	\$	637	\$	718

Table 1Summary of Operating and Capital Costs(Dollars in Thousands)

Table 2
Summary of Revenues
(Dollars in Thousands)

	FY 2011	Original FY 2010	
Description	 Budget	 Budget	 Variance
Revenues			
Sales for Resale (1)	\$ 2,535	\$ 2,662	\$ (127)
Grant	\$ 600	\$ -	\$ 600
Total Revenues	\$ 3,135	\$ 2,662	\$ 473

Variance - () Unfavorable

Table 3
Summary of Full Time Equivalent Positions

Description	FY 2011 Budget	Original FY 2010 Budget	Variance
Operations & Maintenance	5	4	1
Relicensing		<u> </u>	(1)
Total Positions	5	5	-

(1) Revenues are based on an average annual generation of 84,640 MWh, at a rate that reflects market pricing, of \$29.95/MWh.

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Table 4 Cost-to-Cash Reconciliation (Dollars in Thousands)

	F	Y 2011					0	Deferred		Prior		FY 2011	
		Total	N	Ion-Cash		Non-Cost		Cash		Year		Total	
Description		Cost		Items		Items	Rec	juirements	Cor	nmitments	Cash		
Operating													
O&M and Support Services	\$	1,905	\$	-	\$	-	\$	-	\$	-	\$	1,905	
Generation Taxes		17		-		-		-		-		17	
Depreciation		25		(25)		-		-		-		-	
Subtotal Operating	\$	1,947	\$	(25)	\$	-	\$	-	\$	-	\$	1,922	
Licensing													
Maintain License & Permits	\$	160	\$	-	\$	-	\$	-	\$	-	\$	160	
Subtotal Licensing	\$	160	\$	-	\$	-	\$	-	\$	-	\$	160	
Net Debt Service													
Interest on Loan	\$	29	\$	-	\$	-	\$	-	\$	-	\$	29	
Interest Income		(3)		-		-		-		-		(3)	
Treasury Services		5		-		-		-		-		5	
Loan Repayment		-		-		500		-		-		500	
Subtotal Net Debt Service	\$	31	\$	-	\$	500	\$	-	\$	-	\$	531	
Capital	\$	1,355	\$	-	\$	-	\$	-	\$	-	\$	1,355	
Total Disbursements	\$	3,493	\$	(25)	\$	500	\$	-	\$	-	\$	3,968	
Funding Sources													
Sales for Resale	\$	2,535	\$	-	\$	-	\$	-	\$	-	\$	2,535	
Grant		600		-		-		-		-		600	
Beginning Packwood Funds		-		-		1,073		-		-		1,073	
Total Funding Sources	\$	3,135	\$	-	\$	1,073	\$	-	\$	-	\$	4,208	
Ending Working Capital	\$	(358)	\$	(25)	\$	573	\$	-	\$	-	\$	240	

Table 5 Statement of Funding Requirements (Dollars in Thousands)

Description		FY 2011 Budget		Original FY 2010 Budget		Variance
Operating_						
Operating & Support Services	\$	1,905	\$	1,669	\$	236
Generation Taxes		17		19	-	(2)
Subtotal Operating	\$	1,922	\$	1,688	\$	234
Licensing						
Maintain Licenses & Permits	\$	160	\$	89	\$	71
Subtotal Licensing	\$ \$	160	\$ \$	89	\$ \$	71
Net Debt Service						
Interest Expense	\$	-	\$	-	\$	-
Interest on Bank Loan		29		31		(2)
Interest Income (1)		(3)		(3)		-
Treasury Services		5		6		(1)
Debt Retirement		500		-		500
Subtotal Net Debt Service	\$	531	\$	34	\$	497
Capital	\$	1,355	\$	637	\$	718
Total Funding Requirements	<u>*</u> \$	3,968	<u>↓</u> \$	2,448	<u>\$</u>	1,520
	<u>+</u>		<u>+</u>		<u>*</u>	.,020
Funding Sources						
Sales for Resale	\$	2,535	\$	2,662	\$	(127)
Grant		600		-		600
Beginning Packwood Funds		1,073		290		783
Total Funding Sources	<u>\$</u>	4,208	\$	2,952	<u>\$</u>	1,256
Total Packwood Funds Balance	\$	240	\$	504	\$	(264)

(1) Projected investment income earning rate of 0.625%.

Table 6Monthly Statement of Funding Requirements
(Dollars in Thousands)

													F	Y 2011
Description	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		Total
Beginning Balance	\$ 1,073	\$ 1,226	\$ 1,176	\$ 902	\$ 867	\$ 1,027	\$ 1,213	\$ 1,316	\$ 1,235	\$ 1,029	\$ 967	\$ 1,047	\$	1,073
Receipts														
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600	\$	600
Sales for Resale	325	148	100	190	265	433	383	24	45	138	222	262		2,535
Total Receipts	\$ 325	\$ 148	\$ 100	\$ 190	\$ 265	\$ 433	\$ 383	\$ 24	\$ 45	\$ 138	\$ 222	\$ 862	\$	3,135
Disbursements														
Operations Disbursements														
O&M and Support Services	\$ 124	\$ 190	\$ 244	\$ 219	\$ 100	\$ 112	\$ 274	\$ 100	\$ 119	\$ 120	\$ 120	\$ 183	\$	1,905
Maintain License & Permits	45	3	3	3	2	6	3	2	3	76	2	12		160
Generation Taxes	-	-	-	-	-	-	-	-	-	-	17	-		17
Subtotal Operations	\$ 169	\$ 193	\$ 247	\$ 222	\$ 102	\$ 118	\$ 277	\$ 102	\$ 122	\$ 196	\$ 139	\$ 195	\$	2,082
Debt Service														
Interest Expense	\$ 2	\$ 3	\$ 2	\$ 3	\$ 2	\$ 3	\$ 2	\$ 2	\$ 3	\$ 2	\$ 2	\$ 3	\$	29
Principal Payment on Loan	-	-	125	-	-	125	-	-	125	-	-	125		500
Investment Income	-	-	-	(1)	-	-	-	(1)	-	-	-	(1)		(3)
Treasury Services	-	1	-	-	-	1	-	1	-	1	-	1		5
Subtotal Debt Service	\$ 2	\$ 4	\$ 127	\$ 2	\$ 2	\$ 129	\$ 2	\$ 2	\$ 128	\$ 3	\$ 2	\$ 128	\$	531
Capital	\$ 1	\$ 1	\$ -	\$ 1	\$ 1	\$ -	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1,346	\$	1,355
Total Disbursements	\$ 172	\$ 198	\$ 374	\$ 225	\$ 105	\$ 247	\$ 280	\$ 105	\$ 251	\$ 200	\$ 142	\$ 1,669	\$	3,968
Ending Balance	\$ 1,226	\$ 1,176	\$ 902	\$ 867	\$ 1,027	\$ 1,213	\$ 1,316	\$ 1,235	\$ 1,029	\$ 967	\$ 1,047	\$ 240	\$	240

Table 7Statement of Funds(Dollars in Thousands)

Description	FY 2011 Budget Beginning Balance	Budget Ending	
Working Capital Balance	<u>\$ 1,073</u>	<u>\$ 240</u>	<u>\$ (833</u>)

							g Ran ars in T	-													
Description	Budget Y 2011	F	Y 2012 FY 2013 F		F	FY 2014		FY 2015		FY 2016		Y 2017	F	Y 2018	I	FY 2019	F	Y 2020	F	Y 2021	
Operating Costs																					
Operating & Support Services	\$ 1,742	\$	1,742	\$	1,742	\$	1,742	\$	1,742	\$	1,742	\$	1,742	\$	1,742	\$	1,742	\$	1,742	\$	1,742
Relicensing O&M	163		103		75		117		50		50		45		50		45		50		45
Subtotal Operating Costs	\$ 1,905	\$	1,845	\$	1,817	\$	1,859	\$	1,792	\$	1,792	\$	1,787	\$	1,792	\$	1,787	\$	1,792	\$	1,787
Generation Taxes	\$ 17	\$	19	\$	19	\$	19	\$	19	\$	19	\$	19	\$	19	\$	19	\$	19	\$	19
Depreciation	25		134		134		134		134		134		134		134		134		134		134
Subtotal Other Costs	\$ 1,947	\$	1,998	\$	1,970	\$	2,012	\$	1,945	\$	1,945	\$	1,940	\$	1,945	\$	1,940	\$	1,945	\$	1,940
Maintain License and Permits	\$ 160	\$	160	\$	160	\$	160	\$	160	\$	160	\$	160	\$	160	\$	160	\$	160	\$	160
Interest/Financing (Net)	31		31		31		31		31		(5)		(5)		(5)		(5)		(5)		(5)
Subtotal Program Cost	\$ 2,138	\$	2,189	\$	2,161	\$	2,203	\$	2,136	\$	2,100	\$	2,095	\$	2,100	\$	2,095	\$	2,100	\$	2,095
Escalation on Select Program Costs	\$ -	\$	57	\$	116	\$	176	\$	239	\$	303	\$	369	\$	437	\$	507	\$	580	\$	654
Total Escalated Program Costs	\$ 2,138	\$	2,246	\$	2,277	\$	2,379	\$	2,375	\$	2,403	\$	2,464	\$	2,537	\$	2,602	\$	2,680	\$	2,749
Capital Costs																					
Total Capital Costs	\$ 1,355	\$	84	\$	493	\$	486	\$	35	\$	32	\$	32	\$	32	\$	32	\$	32	\$	32
Subtotal Capital Costs	\$ 1,355	\$	84	\$	493	\$	486	\$	35	\$	32	\$	32	\$	32	\$	32	\$	32	\$	32
Escalation on Capital Costs	\$ -	\$	3	\$	30	\$	45	\$	4	\$	5	\$	6	\$	7	\$	9	\$	10	\$	11
Total Escalated Capital Costs	\$ 1,355	\$	87	\$	523	\$	531	\$	39	\$	37	\$	38	\$	39	\$	41	\$	42	\$	43
Total Un-escalated Costs	\$ 3,493	\$	2,273	\$	2,654	\$	2,689	\$	2,171	\$	2,132	\$	2,127	\$	2,132	\$	2,127	\$	2,132	\$	2,127
Total Escalation on all Costs	\$ -	\$	60	\$	146	\$	221	\$	243	\$	308	\$	375	\$	445	\$	516	\$	589	\$	665
Total Escalated Costs	\$ 3,493	\$	2,333	\$	2,800	\$	2,910	\$	2,414	\$	2,440	\$	2,502	\$	2,577	\$	2,643	\$	2,721	\$	2,792
Sales for Resale	\$ 2,535		\$2,688		\$2,739	\$	2,821	\$	2,906	\$	2,993	\$	3,083	\$	3,175	\$	3,271	\$	3,369	\$	3,470
Grant	600		-		-		-		-		-		-		-		-		-		-
Total Net Generation (MWh)	84,640		87,814		88,872		88,872		88,872		88,872		88,872		88,872		88,872		88,872		88,872
Cost of Power (\$/MWh)	\$ 25.26	\$	25.58	\$	25.62	\$	26.77	\$	26.72	\$	27.04	\$	27.73	\$	28.55	\$	29.28	\$	30.15	\$	30.93

Table 8

Key Assumptions/Qualifications:

Escalation Rate = 1.03 starting FY 2012 for costs and FY 2014 for sales for resale. Cost of power excludes capital costs. At the beginning of FY11 there is an outstanding \$1mm loan.

The project anticipates a reduction of 7,360 MWh as a result of an increase of by-pass flows required by the new Operating License, beginning in 2011.

The increased by-pass flows are expected to reduce revenue by approximately \$225,000 annually, based on a five year average "secondary" market power price of \$48.1/MWh.

Turbine upgrade expected to be completed by Qtr 2 of FY12 increasing generation by 5%.

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