EXHIBIT A

BEFORE THE WASHINGTON UTILITIES & TRANSPORTATION COMMISSION

NW NATURAL SUPPORTING MATERIALS

WA EE PROGRAM COSTS (CURRENT & HISTORICAL)

NWN WUTC Advice No. 22-05 / UG-_____ September 14, 2022

NW NATURAL

EXHIBIT A

Supporting Material

WA EE PROGRAM COSTS (CURRENT & HISTORICAL)

NWN WUTC ADVICE NO. 22-05/ UG-____

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			Billing		R&C Energy	FORECAST y Efficiency Program	ns - Forecast		ERRAL - Gas Actg ficiency Programs	- Deferral		ORICAL - Calculation ficiency Programs	
		PGA		Proposed Amount:		Temporary Increm			Temporary Increm			Allocated to Rate	
		Volumes page,		Revenue Sensitive Multiplier:		add revenue sensit			add revenue sensi			add revenue sensi	
	_	Column D	Column A	Amount to Amortize:		to all residential &	commercial sales		to all residential &	commercial		to all residential &	commerc
					Multiplier	Allocation to RS	Increment	Multiplier		Increment	Multiplier	Allocation to RS	Increme
Schedule 1R	Block	A 271,947	\$1.34747		1.0	K 620.674	L	1.0	K (50.440)	(\$0.02254)	1.0	\$8,957	£ 0.0000
1C		26,596	\$1.36829		1.0	\$20,674 \$1,678	\$0.07602 \$0.06309	1.0	(\$9,148) (\$742)	(\$0.03364) (\$0.02790)	1.0	\$8,957	\$0.0329
2R		59,339,066	\$1.05147		1.0	\$2,649,299	\$0.04465	1.0	(\$1,172,245)	(\$0.02756)	1.0	\$1,147,838	\$0.0275
3 CFS		18,510,467	\$1.02282		1.0	\$739,031	\$0.03993	1.0	(\$327,002)	(\$0.01767)	1.0	\$320,193	\$0.017
3 IFS		468,493	\$0.97858		0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
27		220,539	\$0.78957		1.0	\$7,077	\$0.03209	1.0	(\$3,131)	(\$0.01420)	1.0	\$3,066	\$0.0139
41C Firm Sales	Block 1	1,710,731	\$0.79066		1.0	\$110,089	\$0.03140	1.0	(\$48,712)	(\$0.01389)	1.0	\$47,697	\$0.0136
41C Interr Sales	Block 2 Block 1	2,037,786	\$0.73819 \$0.81381		1.0	ćo	\$0.02767	1.0	ćo	(\$0.01224)	1.0	\$0	\$0.0119
41C Interr Sales	Block 2	0	\$0.76287		1.0	\$0	\$0.02996 \$0.02640	1.0	\$0	(\$0.01326) (\$0.01168)	1.0	\$0	\$0.0129
41C Firm Trans	Block 1	163,493	\$0.37100		0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
	Block 2	280,928	\$0.32688		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
41I Firm Trans	Block 1	0	\$0.36337		0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
	Block 2	0	\$0.32015		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
41I Firm Sales	Block 1	0	\$0.71891		0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
441 late: 5:1:	Block 2	0	\$0.67496		0.0	**	\$0.00000	0.0	**	\$0.00000	0.0		\$0.0000
41I Interr Sales	Block 1 Block 2	0	\$0.74958 \$0.70628		0.0	\$0	\$0.00000 \$0.00000	0.0 0.0	\$0	\$0.00000 \$0.00000	0.0 0.0	\$0	\$0.0000
42C Firm Sales	Block 1	672,392	\$0.70628		1.0	\$25,693	\$0.00000	1.0	(\$11,369)	(\$0.00782)	1.0	\$11,132	\$0.0000
.10 Jaies	Block 2	721,398	\$0.54046		1.0	723,033	\$0.01760	1.0	(711,303)	(\$0.00782)	1.0	,11,1JZ	\$0.0076
	Block 3	191,980	\$0.49586		1.0		\$0.01213	1.0		(\$0.00537)	1.0		\$0.0052
	Block 4	8,502	\$0.46651		1.0		\$0.00970	1.0		(\$0.00429)	1.0		\$0.0042
	Block 5	0	\$0.42739		1.0		\$0.00647	1.0		(\$0.00286)	1.0		\$0.0028
	Block 6	0	\$0.37846		1.0		\$0.00242	1.0		(\$0.00107)	1.0		\$0.0010
42I Firm Sales	Block 1	1,685,063	\$0.51347		0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
	Block 2	1,177,850 242,671	\$0.49624		0.0		\$0.00000	0.0		\$0.00000	0.0 0.0		\$0.0000
	Block 3 Block 4	15,978	\$0.46194 \$0.43938		0.0 0.0		\$0.00000 \$0.00000	0.0 0.0		\$0.00000 \$0.00000	0.0		\$0.0000
	Block 5	0	\$0.40932		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 6	0	\$0.37170		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
42C Firm Trans	Block 1	240,000	\$0.14961		0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
	Block 2	480,000	\$0.13392		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 3	463,625	\$0.10270		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 4	605,238	\$0.08217		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 5	0	\$0.05479		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
42I Firm Trans	Block 6	0	\$0.02054		0.0	ćo	\$0.00000	0.0	ćo	\$0.00000	0.0	\$0	\$0.0000
421 FIRM Trans	Block 1 Block 2	831,868 1,048,771	\$0.14867 \$0.13307		0.0 0.0	\$0	\$0.00000 \$0.00000	0.0	\$0	\$0.00000 \$0.00000	0.0	\$0	\$0.0000
	Block 3	923,544	\$0.10205		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 4	2,446,349	\$0.08165		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 5	1,386,714	\$0.05443		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 6	0	\$0.02041		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
42C Interr Sales	Block 1	235,603	\$0.56372		1.0	\$11,600	\$0.01456	1.0	(\$5,133)	(\$0.00644)	1.0	\$5,026	\$0.0063
	Block 2	440,807	\$0.54503		1.0		\$0.01304	1.0		(\$0.00577)	1.0		\$0.0056
	Block 3	191,593	\$0.50781		1.0		\$0.01000	1.0		(\$0.00442)	1.0		\$0.0043
	Block 4 Block 5	63,452 0	\$0.48334 \$0.45073		1.0 1.0		\$0.00800 \$0.00533	1.0 1.0		(\$0.00354) (\$0.00336)	1.0 1.0		\$0.0034
	Block 6	0	\$0.45073		1.0		\$0.00533	1.0		(\$0.00236) (\$0.00089)	1.0		\$0.002
42I Interr Sales	Block 1	138,034	\$0.54885		0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
	Block 2	98,885	\$0.53172		0.0	+-	\$0.00000	0.0	+2	\$0.00000	0.0	70	\$0.0000
	Block 3	0	\$0.49762		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 4	0	\$0.47520		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 5	0	\$0.44528		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
42C1-1	Block 6	0	\$0.40790		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
42C Inter Trans	Block 1	0	\$0.13990		0.0 0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0 0.0	\$0	\$0.0000
	Block 2 Block 3	0	\$0.12524 \$0.09604		0.0		\$0.00000 \$0.00000	0.0		\$0.00000 \$0.00000	0.0		\$0.0000
	Block 4	0	\$0.07684		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 5	0	\$0.05124		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 6	0	\$0.01920		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
42I Inter Trans	Block 1	762,322	\$0.14206		0.0	\$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
	Block 2	1,416,561	\$0.12716		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 3	1,182,116	\$0.09751		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 4	3,080,777	\$0.07802		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
	Block 5	1,407,909	\$0.05202		0.0		\$0.00000	0.0		\$0.00000	0.0		\$0.0000
43 Firm Trans	Block 6	0	\$0.01950 \$0.00495		0.0	\$0	\$0.00000 \$0.00000	0.0	\$0	\$0.00000	0.0	\$0	\$0.0000
43 Interr Trans		0	\$0.00495		0.0	\$0 \$0	\$0.00000	0.0	\$0	\$0.00000	0.0	\$0 \$0	\$0.0000
ntentionally blank	:	0	Ş0.00 4 53		0.0	30	\$0.00000	0.0	30	Ç0.00000	0.0	30	\$0.000k
otals		105,190,049			\$52,923,627	\$3,565,141		\$52,923,627	(\$1,577,482)		\$52,923,627	\$1,544,636	
Sources for line 2	above:	,,.			,,	,		,	., ,,		,	, ,,	
nputs page					Line 37			Line 45			Line 45		
ariff Schedules:													
					Sched 215			Sched 215			Sched 215		

NW Natural NW Natural
Rates & Regulatory Affairs
2022-2023 PGA Filing - Washington: September Filing
PGA Effects on Average Bill by Rate Schedule
Calculation of Effect on Customer Average Bill by Rate Schedule [1]

B Volumes page, Therms in Monthly Monthly Billing Current R&C Energy Eff. R&C Energy Eff.			Washington PGA Normalized		Normal Therms	Minimum	Current 11/1/2021	11/1/2021	Proposed 11/1/2022	Proposed 11/1/2022	Proposed 11/1/2022
Schedule Block A B C C FP-P(C**C) HeV-P(-C)				Therms in							R&C Energy Ef
Schedule Block A B C D E F G H			Column D	Block	Average use	Charge	Rates		Rates [2]		% Bill Change
18	Schadula	Block	. ,	R	,	n			6		
C		DIOCK									-1.
3 155	1C		26,596	N/A	58.0	\$7.00					-1.
315	2R		59,339,066	N/A	57.0	\$8.00	\$1.05147	\$67.93	\$1.03255		-1.
At Firm Sales Block 1, 71,732 2,000 3,050 57,050 50,7765 50,7276 1,000 1			18,510,467								-1.
Block 1							\$0.97858	\$2,269.80	\$0.97858		0.
Block 2								\$46.11		\$45.69	-0.
TOTAL	41C Firm Sales				3,550.0	\$250.00					
Section Sect			2,037,786	all additional			\$0.73819	63.07F.F4	\$0.72674	62 024 77	
Block 2	41C Inters Sales		0	2.000	0.0	\$350.00	ćn 01201	\$2,975.51	¢0.700E1	\$2,931.77	-1.
Color	41C litteri Sales				0.0	\$230.00					
41 Frim Trans Block 1 163,493 2,000 4,629.0 5980.00 59,37000 59,37100 7074A 289,728 41 strim Trans Block 1 0 2,000 0.0 5900.00 59,36317 500,000 50,03317 500,000 50,0000 50,0000 50,0000 50,0000 50,0000 50,0000 50,0000 50,00000 50,00000 50,00000 50,00000 50,00000 50,00000 50,00000 50,00000 50,00			Ü	all additional			30.70207	\$250.00	Ş0.73028	\$250.00	0.
9 Block 2 289,928 al-additional 50,3068 50,3068 50,3068 52,101.37 1 411 Firm Trans Block 1 0 2,000 0.0 \$500,00 50,0337 \$0,0337 \$500,00 \$0,02015 \$500,00 \$0,02015 \$500,00 \$0,02015 \$500,00 \$0,02015 \$500,00 \$0,02015 \$500,00 \$0,02015	41C Firm Trans		163.493	2.000	4.629.0	\$500.00	\$0.37100	V230.00	\$0.37100	\$250.00	- 0.
A 1 Frem Trains Block 1		Block 2	280,928								
Block 2		TOTAL						\$2,101.37		\$2,101.37	0.
3	41I Firm Trans				0.0	\$500.00					
All Firm Sales Block 1			0	all additional			\$0.32015		\$0.32015		
Slock 2							4	\$500.00		\$500.00	0.
Note	41I Firm Sales				4.0	\$250.00					
A II Interr Sales Slock 1			0	all additional			\$0.67496	ć252.00	\$0.67496	ć2F2 00	
Society Soci	41 Interr Saler		^	2 በበቦ	0.0	\$250.00	\$0.74059	9434.88	\$0.7405°	\$454.68	0.
Commons Comm	-TI IIITEII Jaies				0.0	00.00عب					
A2C Firm Sales Block 1 672,393 20,000 18,879.0 \$1,300.00 \$0,50486 \$0,53570 \$1,000.00 \$0,04586 \$0,5350 \$1,000.00 \$0,04586 \$0,04580 \$0,04586 \$0,04580 \$0,04586 \$0,04580 \$0,04			0	uantional			,0020	\$250.00	Ç0.70028	\$250.00	0.
Block 2	42C Firm Sales		672,392	10,000	18,979.0	\$1,300.00	\$0.56289	,	\$0.55701	,	
Block 4 8,502 100,000 50,46551 50,46529 50,04529 50,											
Block 0 Bloc											
Block O											
TOTAL Color											
421 Firm Sales Block 1, 1,685,063 10,000 26,013.0 \$1,300.00 \$0,51347 \$0,03487 \$0,04624 \$0.46624 \$0.			0	all additional			\$0.37846		\$0.37766	A44 ::	
Block 2	431 Firm Cales		1 000 000	10.000	20.012.0	Ć1 200 00	Ć0 F1247	\$11,781.69	Ć0 F1247	\$11,675.66	-0.
Block 3	421 FITTI SaleS				26,013.0	\$1,300.00					
Block 15,778 100,000 50,43938 50,43938 50,43938 8 8 8 8 8 8 8 8 8											
Block S											
Second S											
42C Firm Trans Block 1			0	all additional			\$0.37170		\$0.37170		
Block 2		TOTAL						\$14,380.99		\$14,380.99	0.
Block 3	42C Firm Trans	Block 1	240,000	10,000	74,536.0	\$1,550.00	\$0.14961		\$0.14961		
Block GoS,238 100,000 S0.08217 S0.08217 S0.08217 S0.08217 S0.08217 S0.08217 S0.08217 S0.08217 S0.08279 S0.05479 S0.05479 S0.05479 S0.05479 S0.05479 S0.02054 S0.02055 S0.											
Block 5											
Block 6											
7 TOTAL 8 421 Firm Trans Block 1 831,868 10,000 69,138.0 \$1,550.00 \$0.14867 \$0.14867 \$0.14867 \$0.13307 \$0.1000 \$0.008165 \$0.00											
			U	all additional			\$0.02054	\$9.794.62	\$0.02054	\$9.794.62	0.
Block 2	421 Firm Trans		831.868	10.000	69.138.0	\$1,550.00	\$0.14867	Ç5,754.0 <u>2</u>	\$0.14867	\$3,734.0 <u>2</u>	0.
Block 3 923,544 20,000 \$0,01205 \$0,0205 \$0,0205 \$0,0543 \$0,05527 \$0,05600 \$0,05781 \$0,05027 \$0,05600 \$0,05078 \$0,05078 \$0,05078 \$0,05078 \$0,05078 \$0,05078 \$0,05078 \$0,05078 \$0,05078 \$0,05078 \$0,05078 \$0,0578					,	+=,					
Block Society Societ		Block 3	923,544	20,000			\$0.10205		\$0.10205		
Block 6		Block 4	2,446,349	100,000			\$0.08165		\$0.08165		
TOTAL											
A A A A A A A A A A			0	all additional			\$0.02041		\$0.02041		
Block 2							4	\$9,301.72		\$9,301.72	0.
Block 3	42C Interr Sales				25,874.0	\$1,300.00					
Block 4											
Block 5											
Block 6											
TOTAL											
Block 2 98,885 20,000 \$0.531.72 \$0.547.52								\$15,589.01		\$15,499.10	-0.
Block 3	42I Interr Sales				19,743.0	\$1,300.00					
Block 4											
Block 5											
Block 5											
No.											
A 2C Inter Trans Block 1			0	an additional			Ç010750	\$11,969.05	Ç0.40730	\$11.969.05	0.
Block 2	42C Inter Trans		0	10.000	0.0	\$1,550.00	\$0.13990	+==,505.03	\$0.13990	+==,505.03	
Block 3											
Block 5			0	20,000			\$0.09604		\$0.09604		
Block 6											
No.											
42 Inter Trans Block 1 762,322 10,000 0.0 \$1,550.00 \$0.14206 \$0.14206 \$0.14206 \$1,000 \$1,000 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.12716 \$0.000 \$0.0000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.0000000 \$0.0000000 \$0.0000000000			0	all additional			\$0.01920	A4	\$0.01920	Ac · ·	
Block 2	4201-2		762.255	10.00-		Ć4 FEO OC	ć0 1 130C	\$1,550.00	60 4 400 -	\$1,550.00	0
Block 3	421 Inter Trans				0.0	\$1,550.00					
Block 4 3,080,777 100,000 \$0,07802											
Block 5 1,407,909 600,000 \$0.05202 \$0.05202											
Block 6											
TOTAL \$1,550.00 \$1,550.00 43 Firm Trans 0 N/A 0.0 \$38,000.00 \$0,00495 \$38,000.00 \$0,00495 \$38,000.00 43 Inter Trans 0 N/A 0.0 \$38,000.00 \$0,00495 \$38,000.00 \$0,00495 \$38,000.00 Intentionally blank											
43 Interr Trans 0 N/A 0.0 \$38,000.00 \$0.00495 \$38,000.00 \$0.00495 \$38,000.00 43 Interr Trans 0 N/A 0.0 \$38,000.00 \$0.00495 \$38,000.00 \$0.00495 \$38,000.00 Intentionally blank								\$1 <u>,</u> 550.00		\$1,550.00	0
43 Interr Trans 0 N/A 0.0 \$38,000.00 \$0.00495 \$38,000.00 \$0.00495 \$38,000.00 Intentionally blank	43 Firm Trans		0	N/A	0.0	\$38,000.00	\$0.00495		\$0.00495		0
	43 Interr Trans										0.
[1] Rate Schedule 41 and 42 customers may choose demand charges at a volumetric rate or based on MDDV. For convenience of presentation, domand charges are											
[1] hate Schedule 41 and 42 customers may choose demand charges at a volumetric rate or based on MDDV. For convenience or presentation, demand charges are included in the calculations for those schedules.	[1] Rate Schedule				narges at a volu	metric rate or	based on MDI	DV. For conveni	ence of presenta	tion, demand char	ges are not

[2] Proposed rates include the effect of removing the current Schedule 215 adjustment and applying the proposed Schedule 215 adjustment. The rate shown is for illustrative purposes only and assumes no other changes to rates occur November 1.

| Sources: | Direct Inputs | per Tariff | per Tariff |

86 87 Rates in summary

NW Natural Rates & Regulatory Affairs 2022-2023 PGA Filing - Washington: September Filing Summary of Deferred Accounts

_	Account	Balance 8/31/2022	Sep-Oct Estimated Activity	Sep-Oct Interest	Estimated Balance 10/31/2022	Estimated Interest During Amortization	Total Estimated Amount for (Refund) or Collection	Amounts Excluded from PGA Filing	Amounts Included in PGA Filing
	A	В	С	D	E _	F	G	Н	I
					E = sum B thru D	3.60%	G = E + F		
1 _							Excl. Rev Sens		
2 _	DSM & LOW INCOME PROGRAMS								
11	186316 WA DSM AMORTIZATION	93,192	(102,434)	309	(8,933)				
12	186318 WA ENERGY EFFICIENCY	(1,128,861)	(341,945)	0	(1,470,806)				
13		(1,035,669)	(444,378)	309	(1,479,739)	(29,013)	(1,508,752)		(1,508,752)
14									
15	186317 WA DSM - HISTORICAL	0	0	0	1,477,339				
16		0	0	0	1,477,339	0	1,477,339		1,477,339
17									

Company: Northwest Natural Gas Company

State: Washington

Description: Washington EE Amortization

Account Number: 186316

Program under Schedule G

Temp Increment under Schedule 215

UG-181053

Debit (Credit)

2	
2	
J	

,								
4	Month/Year	Note	Amortization	Transfers	Interest Rate	Interest	Activity	Balance
5	(a)	(b)	(c)	(d)	(e1)	(e2)	(f)	(g)
6								
204	Nov-21 n	ew (1)	(33,155.13)	1,076,167.05	3.25%	2,869.72	1,045,881.64	1,024,010.14
205	Dec-21		(137,613.68)		3.25%	2,587.01	(135,026.67)	888,983.47
206	Jan-22		(203,649.13)		3.25%	2,131.89	(201,517.24)	687,466.23
207	Feb-22		(163,074.04)		3.25%	1,641.06	(161,432.98)	526,033.25
208	Mar-22		(137,927.47)		3.25%	1,237.90	(136,689.57)	389,343.68
209	Apr-22		(101,639.87)		3.25%	916.84	(100,723.03)	288,620.65
210	May-22		(88,002.67)		3.25%	662.51	(87,340.16)	201,280.49
211	Jun-22		(52,021.28)		3.25%	474.69	(51,546.59)	149,733.90
212	Jul-22		(32,970.63)		3.60%	399.75	(32,570.88)	117,163.02
213	Aug-22		(24,285.82)		3.60%	315.06	(23,970.76)	93,192.26
214	Sep-22 f	orecast	(32,523.05)		3.60%	230.79	(32,292.26)	60,900.00
215	Oct-22 f	orecast	(69,910.49)		3.60%	77.83	(69,832.66)	(8,932.66)

History truncated for ease of viewing

219 **Notes**

216

217 218

220 **1** - Transfer in amounts from accounts 186310 and 186312 approved for amortization.

Company: Northwest Natural Gas Company

State: Washington

Description: Washington EE True-Up Deferral

Account Numl 186318

Program under Schedules G

Temp Increment under Schedule 215

UG-181053

1	Month/Year	Note	Deferral	Transfers	Activity	Balance
2	(a)	(b)	(c)	(d)	(g)	(h)
3						
4	Beginning Balanc	e				
31	Nov-21 NE	W	(349,077.62)	(336,892.66)	(685,970.28)	(405,818.62)
32	Dec-21		(596,921.20)		(596,921.20)	(1,002,739.82)
33	Jan-22		(583,466.35)		(583,466.35)	(1,586,206.17)
34	Feb-22		(448,801.87)		(448,801.87)	(2,035,008.05)
35	Mar-22		681,262.29		681,262.29	(1,353,745.75)
36	Apr-22		(346,401.77)		(346,401.77)	(1,700,147.52)
37	May-22		(212,572.40)		(212,572.40)	(1,912,719.92)
38	Jun-22		938,507.03		938,507.03	(974,212.89)
39	Jul-22		(84,392.88)		(84,392.88)	(1,058,605.77)
40	Aug-22		(70,255.59)		(70,255.59)	(1,128,861.36)
41	Sep-22 for	ecast	(108,687.95)		(108,687.95)	(1,237,549.31)
42	Oct-22 for	ecast	(233,256.59)		(233,256.59)	(1,470,805.90)

Company: Northwest Natural Gas Company

State: Washington

Description: Washington EE Deferral - Historical

Account Number: 186317

Debit (Credit)

					Interest			
	Month/Year	Note	Accumulation	Transfers	Rate	Interest	Activity	Balance
	(a)	(b)	(c)	(d)	(e2)	(e1)	(f)	(g)
1	Beginning Balance							0.00
27	Nov-21		-	(738,669.44)	3.25%	5,517.49	(733,151.95)	2,042,746.09
28	Dec-21		-		3.25%	5,532.44	5,532.44	2,048,278.53
29	Jan-22		-		3.25%	5,547.42	5,547.42	2,053,825.95
30	Feb-22		-		3.25%	5,562.45	5,562.45	2,059,388.40
31	Mar-22		-		3.25%	5,577.51	5,577.51	2,064,965.91
32	Apr-22		-		3.25%	5,592.62	5,592.62	2,070,558.53
33	May-22		-		3.25%	5,607.76	5,607.76	2,076,166.29
34	Jun-22		-		3.25%	5,622.95	5,622.95	2,081,789.24
35	Jul-22		-		3.60%	6,245.37	6,245.37	2,088,034.61
36	Aug-22		-		3.60%	6,264.10	6,264.10	2,094,298.71
37	Sep-22		-		3.60%	6,282.90	6,282.90	2,100,581.61
38	Oct-22		-		3.60%	6,301.74	6,301.74	2,106,883.35
39								

41 History truncated for ease of viewing

1- adjusted for rounding

40

NWN WUTC Advice 22-05 Exhibit A - Supporting Materials Page 7 of 26

NW Natural Rates & Regulatory Affairs

2022-23 Washington: September Filing
Tariff Advice 22-05: Schedule 215 Effects on Revenue

1		<u>Amount</u>
2		
3	<u>Temporary Increments</u>	
4		
5	Removal of Current Temporary Increments	
6	Amortization of Energy Efficiency Programs	(4,924,209)
7		
8	Addition of Proposed Temporary Increments	
9	Amortization of Energy Efficiency Programs	3,532,297
10		
11		
12	TOTAL OF ALL COMPONENTS OF RATE CHANGES	(\$1,391,912)
13		
14		
15		
16	2021 Washington CBR Normalized Total Revenues	\$83,232,693
17		
18	Effect of this filing, as a percentage change	-1.67%

2021 Annual Report NW Natural Washington

ENERGY TRUST OF OREGON
JUNE 1, 2022

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I. Introduction, background, oversight and goals

A. Introduction

This annual report covers 2021, the 12th year that Energy Trust of Oregon provided services and incentives to residential and commercial customers of NW Natural in Washington. It addresses progress toward annual goals, information on expenditures, gas savings, projects completed, incentives paid during the year and highlights of program activity.

B. Background

At the request of NW Natural and following approval granted by the Washington Utilities and Transportation Commission (WUTC), Energy Trust began implementing NW Natural's demand-side management programs in Southwest Washington on October 1, 2009. The first year was viewed as a pilot. In 2011, the WUTC approved NW Natural's use of Energy Trust as implementer of Commercial and Residential conservation programs for NW Natural in Washington.

C. Oversight

The Energy Efficiency Advisory Group (EEAG) was created at the direction of the WUTC to provide advice and oversight for NW Natural and Energy Trust energy-efficiency offerings in Washington. The advisory group is comprised of representatives from NW Natural, Energy Trust, WUTC, Public Counsel Unit of the Washington Attorney General's Office, Energy Project, Alliance of Western Energy Consumers and the NW Energy Coalition.

D. Goals

NW Natural, in collaboration with the EEAG, established performance metrics for 2021. This report presents Energy Trust's performance against those goals. The total savings goal for the portfolio was 399,957 therms. The goal for the Energy Trust programs was 386,680 therms and is comprised of 148,573 therms for residential and 238,107 therms for commercial.

II. Annual report highlights

A. General

- In 2021, Energy Trust achieved 89% of the annual portfolio goal.
- Gas efficiency projects installed in 2021 by NW Natural's Washington customers saved 345,322 annual therms of natural gas—128,309 therms in the commercial sector and 217,013 in the residential sector.
- Shortfalls in the overall goal and sector goals are largely due to construction delays in the commercial sector as a result of supply chain issues and construction cost increases, both of which were market impacts of the COVID-19 pandemic.

B. Commercial sector highlights

- The commercial sector achieved 54% of its annual goal.
- The largest drivers of savings were control upgrade projects located in schools and large office facilities. These projects realized approximately 65,000 therms. The prevalence of controls projects is expected to continue into 2022.
- Roof and wall insulation incentives were also large drivers of savings in 2021, accounting for approximately 30,000 therms. By comparison, these insulation measures contributed less than 1,000 therms in 2020 and 2019.
- COVID-19 continued to impact the market and customers in challenging ways.
 - During Q4, several large projects were delayed into 2022 due to supply chain issues, materials cost increases and labor shortages. Energy Trust expects to realize approximately 120,000 therms from projects postponed to 2022.
 - Equipment and raw materials costs increased in 2021 by 10-20%. In addition, delivery schedules have lengthened by two-to-four months. These delays impacted the completion of building controls upgrades and boiler replacements.
- The program managed the largest projects in the program's history. The program expects to see the prevalence of large projects in the coming years as well. Due to the complexity of these large projects, forecasting can be challenging.
- Bonus incentives were offered for condensing boilers from April 1 to December 31. The boiler incentive motivated customers to install qualifying boilers, despite the decline of boiler savings since 2019.

C. Residential sector highlights

- The residential sector achieved 146% of its annual goal, whereas in 2020 the residential sector achieved 94% of the annual savings goal.
- Savings were driven by strong participation in EPS[™] new construction, heating system upgrades including gas furnaces and gas fireplaces, windows and thermostat offers including smart thermostats and thermostat optimization.
- Strong participation in EPS new construction contributed a higher portion of residential savings in 2021 compared to 2020, reflecting a construction backlog from 2020 being built in a compressed timeframe.
 Approximately 30% of residential savings came from EPS new construction in 2021, compared to 25% in 2020.

- Only 20 showerheads were recognized in 2021, compared to the goal of 417. This variance occurred in part due to the delayed launch of the Energy Saver Kits to 2022.
- Smart thermostat marketing campaigns were highly effective and brought in 66% more smart thermostat savings than in 2020, with the promotion of direct ship incentives generating the greatest thermostat activity seen to date in Washington. As a result of collaborative messaging with NW Natural, 299 thermostat transactions were recognized over the course of several days.
- Thermostats and thermostat optimization contributed approximately 20% of all residential savings in 2021 due to the continued promotion of direct ship and the introduction of incentives for a new lowcost thermostat model by Google that made smart thermostats more affordable than previous years.
- Bonus incentives for gas furnaces in Q1 were highly effective, bolstering savings from heating system upgrades by 19% compared to 2020. Regional trade allies promoted the incentives leading to a sharp increase in projects between February and April. The gas furnace bonus incentive also had a lasting impact on gas furnace activity for the remainder of 2021, despite the bonus ending in March.
- 2021 saw the highest number of project submissions compared to the last four years with virtually no cooling season slowdown typically seen in July, August and September.
- Incentives for rental properties were used more in 2021 than any year prior, with three times the number of gas furnace projects in rentals than in 2020 (8 in 2020, 24 in 2021). The \$1,000 incentive for gas furnaces in rentals drove a measurable increase in participation among rental properties, as did incentives for smart thermostats. Targeted outreach to rental organizations such as the Clark County Rental Association and Vancouver's Green Apartment Living helped promote these incentives to new property owners and management companies. Gas furnace projects in rentals saw a 300% increase in quantity, with 8 occurring in 2020, and 24 occurring in 2021.
- One new savings source and one new market channel were introduced in 2021.
 - The New Manufactured Homes offer, which incentivizes the sale of ENERGY STAR® certified manufactured homes, was launched through a series of outreach initiatives but did not produce any gas-heated new homes in 2021.
 - The Community Partner Funding offer was introduced to a number of nonprofit and serviceoriented organizations in Clark County. Early discussions for Community Partner Funding laid groundwork for conversations to continue in 2022, but no related savings were claimed in 2021.
- The program worked with builders, verifiers and trades people to assist the market in transitioning to residential building code changes in early 2021. The program launched new incentive offerings in Q4 to provide opportunities for all builders of gas homes to participate.

D. Trade Ally Network highlights

• By the end of 2021, **370 trade allies served Washington**, up from 345 in 2020. This includes 121 trade allies based in Washington.

E. Program evaluations

• Energy Trust finalized the 2018-19 New Buildings Impact evaluation

This report can be found online at https://energytrust.org/wp-content/uploads/2021/10/2018-19-New-Buildings-Program-Evaluation Final wSR.pdf

• Energy Trust finalized the Existing Buildings 2019 Impact Evaluation

This report can be found online at https://energytrust.org/wp-content/uploads/2021/09/Existing-Buildings-PY2019-Impact-Evaluation-Report-wSR.pdf

• 2020 Fast Feedback Annual Report

This report can be found online at

https://www.energytrust.org/wp-content/uploads/2021/05/Energy-Trust-2020-Fast-Feedback-End-of-Year-Report-FINAL.pdf

• Oregon Commercial and Industrial Boiler Market Characterization Memo

This report can be found online at https://www.energytrust.org/wp-content/uploads/2021/05/EnergyTrust CIGasBoilerMarketResearch-Memo FINAL.pdf

• Energy Trust finalized the Oregon Commercial and Industrial Boiler Market Characterization report

This report can be found online at https://energytrust.org/wp-content/uploads/2021/05/EnergyTrust CIGasBoilerMarketResearch-Memo FINAL.pdf

Energy Trust finalized the Low Flow Gas Showerhead Analysis

This report can be found online at https://www.energytrust.org/wp-content/uploads/2021/01/ShowerheadAnalysisFinalwSR.pdf

F. Washington Utilities and Transportation Commission performance metrics

The tables below compare results to 2021 goals, as established in NW Natural's Energy Efficiency Plan for Washington.

2021 Summary compared to goals

Program	2021 Therm Goal	2021 Actual Therm Savings
Residential Incentive Program	148,573	217,013
Commercial Incentive Program	238,107	128,309
Low-Income Energy Efficiency	3,410	3,568
NEEA Market Transformation	9,867	11,423
Total	399,957	360,313

2021 Energy Trust results compared to goals

Metric	Goal	2021	Total Annual	Q1 results	Q2 results	Q3 results	Q4 results
Therms Saved	386,680		345,322	52,172	122,960	62,964	107,227
Total Program Expenditures	\$3,322,803	\$	3,069,312	\$682,019	\$941,612	\$606,543	\$839,138
Average Levelized Cost Per Therm	Less than \$0.65	\$	0.63	\$ 0.86	\$ 0.61	\$ 0.65	\$ 0.53
Utility Cost at Portfolio Level	Greater than 1.00	\$	2.31	Reported annually	Reported annually	Reported annually	Reported annually

2020 Energy Trust results compared to goals (for reference)

Metric	Goal	202	0 Total Annual	C	(1 results	(Q2 results	(Q3 results	Q4 results
Therms Saved	339,331		320,170		25,412		48,450		44,658	201,651
Total Program Costs	\$2,579,667	\$	2,363,539	\$	360,998	\$	533,823	\$	446,759	\$ 1,021,960
Average Levelized Cost Per Therm	Less than \$0.65	\$	0.59	\$	0.92	\$	0.69	\$	0.76	\$ 0.47
Utility Cost at Portfolio Level	Greater than 1.00	\$	2.31		Reported annually		Reported annually		Reported annually	Reported annually

2021 Utility Cost Test and Total Resource Cost Test benefit/cost ratios by program

Program	Utility Cost Test Benefit/Cost Ratio	Total Resource Cost Test Benefit/Cost Ratio
Commercial Programs	2.96	2.71
Residential Programs	2.78	1.59
Total NW Natural Washington Energy Trust Programs*	2.84	1.85
NW Natural Low Income Program (only)	1.88	1.72
Total NW Natural Washington Programs	2.82	1.85
Total Washington Portfolio**	2.88	1.90

^{*} Does not include NEEA or WALIEE expenses.
** Includes costs associated with NEEA's gas market transformation efforts. NEEA results reflect one-year savings and costs only.

2020 Utility Cost Test and Total Resource Cost Test benefit/cost ratios by program (for reference)

Program	Utility Cost Test Benefit/Cost Ratio	Total Resource Cost Test Benefit/Cost Ratio
Commercial Programs	2.44	2.40
Residential Programs	2.72	1.40
Total NW Natural Washington Energy Trust Programs*	2.63	1.61
NW Natural Low Income Program (only)	1.69	1.43
Total NW Natural Washington Programs	2.62	1.61
Total Washington Portfolio**	2.57	1.60

III. Annual results

A. Activity highlights—sites served

	Q1	Q2	Q3	Q4	Total
Commercial					
Food Service	4	5	10	8	27
HVAC	2	4	2	8	16
Study	4	7	2	6	19
Water Heating	1	2	2	2	7
Weatherization	-	2	3	-	5

	Q1	Q2	Q3	Q4	Total
Residential					
EPS new construction	180	104	97	184	565
HVAC	156	193	161	308	818
HVAC Controls	245	537	94	69	945
Water Heating	11	7	7	13	38
Weatherization	55	60	88	104	307

B. Revenue

Source	Annual actual revenue	Annual budgeted revenue
NW Natural	\$ 3,000,874	\$ 3,000,874

C. Expenditures

		Annual actual	A	nnual budgeted	Budget
		expenditures		expenditures	variance
Commercial	Commercial	\$ 900,456	\$	1,457,759	\$ 557,302
	Commercial administration	\$ 47,370	\$	73,513	\$ 26,143
	Commercial Total	\$ 947,826	\$	1,531,271	\$ 583,445
Residential	Residential	\$ 2,015,459	\$	1,705,525	\$ -309,934
Nesidelitial	Residential administration	\$ 106,027	\$	86,007	\$ -20,019
	Residential Total	\$ 2,121,485	\$	1,791,532	\$ -329,953
	Total expenditures	\$ 3,069,312	\$	3,322,803	\$ 253,492

D. Incentives paid

					Percer	nt incentives/
	Ann	ual actual incentives	A	annual actual expenditures	•	expenditures
Commercial	\$	420,820	\$	947,826		44%
Residential	\$	1,398,609	\$	2,121,485		66%
Total Incentives	\$	1,819,429	\$	3,069,312		59%

Incentives paid account for approximately 70% of annual program expenses when total program expenses
are adjusted down by 15% to account for costs that a utility-delivered program would recover through
rates.

E. Savings

		Annual savings therms	Annual goal therms	Percent achieved	Levelized cost/therm
	Existing Buildings - custom	64,908	164,843	39%	
Commercial	Existing Buildings - standard	57,224	48,782	117%	
Commercial	New Buildings - custom	-	4,703	-	
	New Buildings - standard	6,178	19,778	31%	
	Commercial total	128,309	238,107	54%	\$ 0.60
	Home retrofit	133,250	86,957	153%	
Residential	Midstream and retail	14,544	9,957	146%	
Residential	Small multifamily	2,811	1,666	169%	
	EPS new construction	66,408	49,993	133%	
	Residential total	217,013	148,573	146%	\$ 0.65
	Total	345,322	386,680	89%	\$ 0.63

Appendix 1: Energy efficiency measure counts and savings

Table 1: Residential sector measures³

		Measures	Total therms
Category	Measure	installed	saved
EPS new construction		564	66,408
	EPS new construction total	564	66,408
HVAC	Furnace	762	69,963
TIVAC	Gas fireplace	2,146	17,495
	HVAC total	2,908	87,458
HVAC controls	Thermostat	945	35,938
	Thermostat Optimization	10	6,370
	HVAC controls total	955	42,308
Water heating	Tank water heater	2	51
water neating	Tankless water heater	39	2,964
	Other total	41	3,015
	Ceiling insulation	30	2,934
Weatherization	Floor Insulation	8	369
Weatherization	Wall insulation	3	61
	Windows	433	9,522
	Weatherization total	474	12,887
Other	Energy Saver Kit	12	248
Other	Other	1	4,689
	Other total	13	4,937
Grand total		4,955	217,013

³ Totals may not match Table E due to rounding.

Table 2: Commercial sector measures⁴

		Measures	Total therms
Category	Measure	installed	saved
Foodservice	Fryer	43	16,494
roouservice	Oven	2	190
	Foodservice total	45	16,685
HVAC	Boiler	11	10,732
IIVAC	Building controls	5	64,908
	HVAC total	16	75,639
Study	Study	19	-
	Study total	19	-
Water heating	Aerator	97	190
water neating	Tank water heater	6	6,080
	Water heating total	103	6,270
Weatherization	Ceiling insulation	5	29,639
Weatherization	Wall insulation	1	76
	Weatherization total	6	29,715
Grand Total		189	128,309

⁴ Totals may not match Table E due to rounding.

Appendix 2: Customer satisfaction

Energy Trust conducted short web and phone surveys of NW Natural customers in Washington who participated in Energy Trust programs in 2021 to determine their satisfaction with Energy Trust. Results from 184 residential customers and four commercial customers indicate a generally high level of customer satisfaction. Most residential customers in Washington were satisfied with their overall program experience, but a small proportion were neutral or dissatisfied with regard to the turnaround time to receive their incentive and the incentive application form.

Table 1: NW Natural Washington residential customer satisfaction 2021

Residential (n=184)	Dissatisfied	Neutral	Satisfied
Overall experience	3%	5%	92%
Incentive application form	3%	2%	94%
Turnaround time to receive incentive	10%	14%	76%

Energy Trust surveyed four commercial customers in Washington who participated in 2021. All respondents were satisfied with their overall program experience, incentive amount, ease of applying for the incentive, performance of their project, interaction with program representatives and turnaround time to receive the incentive.

Table 2: NW Natural Washington commercial customer satisfaction 2021

Commercial (n=13)	Dissatisfied	Neutral	Satisfied
Overall experience	0%	0%	100%
Incentive amount	0%	0%	100%
Ease of applying for incentive	0%	0%	100%
Interaction with program representative	0%	0%	100%
Performance of project or system	0%	0%	100%
Turnaround time to receive incentive	0%	0%	100%

NW Natural Internal Audit Summary

NW Natural's Internal Audit performed a review of the program costs relating to Energy Trust's administration of the Company's Washington energy efficiency programs. This annual review is performed at the request of the Washington Utilities and Transportation Commission.

Specifically, Internal Audit reviewed a sampling of transactions (including accruals) to:

- Determine if the program expenses (including allocations) were in accordance with the Energy Trust's policy and current Energy Efficiency agreement.
- Assess if the transactions were supported, recorded in the correct program period, correctly classified, and related to NW Natural territories and NW Natural non-industrial customers.
- Ensure that incentive details were properly accounted for.

There were no exceptions noted during this review. As such, it appears that accumulated cost activity billed to the NW Natural Washington EE Program is being properly administered and accounted for.

Washington Market Transformation 2021 Program Results

In 2021 NW Natural participated in the Northwest Energy Efficiency Alliance's (NEEA) Gas Collaborative to support regional Market Transformation. Funding is on a regional basis and invoiced based on actuals spent for work on the 5-year plan. There were no activities specific to NW Natural in 2021. A summary of the NEEA funder memo can be found on the following pages.

Market Transforn	nation	Budget	Actual
NEEA	Total	\$ 88,148	\$88,148

Market Transformation	Reported Therm Savings
Program Measures	-
Codes & Standards Measures	11,423
Total Savings	11,423

2021 Savings Estimate Summary

NEEA estimates NW Natural's 2021 annual natural gas energy savings associated with its initiatives is 11,423 Annual Therms⁵ (Table 1). These savings are above the NEEA baseline⁶ and exclude an estimate of savings that NW Natural and local utilities claim through locally run programs. NEEA allocates energy savings based on funder share for voluntary programs and an estimate of service area shares for codes and state standards.

Table 1: 2021 Annual Report Net Market Effects Savings Estimates (Annual Therms)

Program	Gas Program Measures (Net Market Effects)
Residential Codes	11,087
Commercial Codes	336
Total Savings	11,423

Net Market Effects = Total Regional Savings - Local Program Savings - Baseline Savings

Regional Gas Savings Portfolio

NEEA is in its third year of reporting natural gas savings. Annual gas savings will increase over time as programs in the portfolio advance into full-scale market development and as new programs are added. **Commercial Codes:**

NEEA provides technical expertise and data to support adoption of codes. The 2021 savings come from work on Washington State Energy Code - Commercial (WESC-C) 2018, which went into effect in February 2021. The savings analysis comes from NORESCO. The final report should be published in Q2 2022.

⁵ The term Annual Therms refers to the fact that NEEA reports first-year savings only in order to represent a sustained reduction in load. ⁶ NEEA estimates Baseline as the savings that would have occurred without NEEA, utility, the Bonneville Power Administration, and the

Energy Trust of Oregon's market intervention.

Residential New Construction Codes:

WSEC 2018 code went into effect in February 2021 and saves on average 16% more energy than WSEC 2015. NEEA started counting savings in August 2021 to allow time to build under the new code. One barrier to the savings analysis is the lack of information on how the code will change building practices with regard to fuel selection. NEEA is collecting permit data as part of the ongoing Washington Residential Post Code Adoption Market Research study and results from the study will be available by June. Early results from the study indicate that the share of gas-fueled homes permitted under the WSEC 2018 could be as low as 12% and the 2021 savings have been adjusted downward to reflect this change.

Allocation Methodology

NEEA allocates code savings for gas measures using a service area approach. The approach uses EIA residential consumer sales for Residential Codes and nonresidential volume for Commercial Codes (Table 2). For voluntary programs, NEEA allocates regional savings (Idaho, Montana, Oregon and Washington) using shares of investment by funder. These shares vary by funding cycle. Savings from previous investments receive the previous funder share. Savings from current investments receive the current funder share. Table 3 shows the funder shares.

Table 2: State Code Savings Allocation Share

Sector	WA	OR	ID
Residential	6.62%	0.00%	0.00%
Commercial	4.15%	0.00%	0.00%

Table 3: NW Natural Funder Share

Business Plan	Gas Funding Share
2019	2.73%
2020-2024	3.11%

Gas Measure Analysis

2021 Regional Engagement

The Regional Technical Forum (RTF) is an advisory committee to the Northwest Power and Conservation Council that meets monthly to review analysis and make decisions on methodologies for estimating energy efficiency savings. With funding and support from gas utilities, including NW Natural, the RTF began considering gas measures in 2020. 2021 marks the second year that the RTF has been adding gas measures to their portfolio. New additions in 2021 include commercial cooking measure applications, residential gas water heaters, and residential gas furnaces. NW Natural participated in subcommittee meetings to provide relevant input for the development of the RTF's gas measures. The list of active measures and analysis can be found on the RTF website: https://rtf.nwcouncil.org/measures/

Regional Technic	cal Forum	Budget	Actual
RFT	Total	\$ 10,300	\$10,300

Washington Low Income Energy Efficiency Program 2021 Program Results

NW Natural partners with Clark County's Community Development Office to serve Clark County customers and Washington Gorge Action Programs (WAGAP) serving Skamania and Klickitat counties to administer its Washington Low Income Energy Efficiency (WALIEE) program. While offerings are available in Skamania and Klickitat counties, the agency that serves these counties did not provide services to any customers through WALIEE during 2021. Results below are specific to Clark County's Department of Community Services.

Program year 2021 saw recovery from COVID-19 related impacts to operations. While homes served was still down from pre-shutdown numbers, the number of homes served met the goal outlined in the 2021 EE Plan.

In WAGAP's territory, staffing and limited customers have been the historical challenge for the program's gas efforts. In 2019 Community Action Council of Lewis, Mason & Thurston Counties (CACLMT) was selected to provide services in WAGAP's territory. NW Natural continued engagement with the Energy Project and CACLMT, to help address these issues and support gas customers and projects.

The agencies are allotted 15% of reimbursable job costs for administrative costs and allowed an average of \$1,000 per home for Health, Safety, and Repairs (HSR), which are not subject to cost effectiveness tests. A WALIEE job could cost the program no more than the base \$7,992 plus the Low-Income Program Adjustment of \$5,508 for a total of \$13,500. Projects in 2021 averaged \$6,575 per home.

Measure Analysis

The figure below provides a breakdown of weatherization occurrences by measure, as well as the associated annual therms savings.

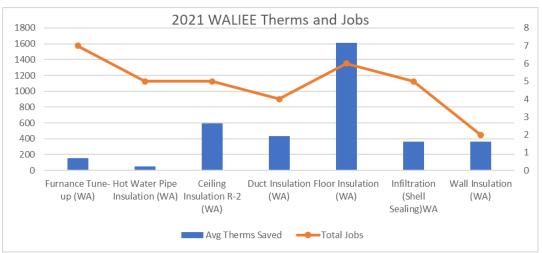


Figure 1: Measure Occurrence and Savings

2016-2021 Efficiency Results

Efficiency Metric	2021	2020	2019	2018	2017	2016
Homes served	11	3	22	16	13	16
Average Reimbursement per home ⁷	\$4,996	\$4,436	\$8,657	\$5,739	\$5,305	\$4,807
Total Reimbursed	\$54,960	\$13,308	\$190,457	\$91,828	\$68,965	\$76,918
Average estimated therms saved per home ⁸	324	377	918	474	472	378
Total estimated therms saved	3,568	1,132	20,170	7,578	6,132	6,048
Estimated Cost per therm	\$15.40	\$11.76	\$9.44	\$12.12	\$11.25	\$12.72

Performance Metrics

2021 Performance Metric	Goal	Actual
Homes served	10	11
Max reimbursement per home (Actual figure = avg per home)	\$7,992	\$4,996
Adjustment Program Max (Actual figure =avg per home)	\$5,508	\$0
Average estimated therms saved per home ⁹	341	324
Total estimated therms saved	3,410	3,568
Total Expenditure	\$157,624	\$72,326

NW Natural continues to be optimistic that the work with stakeholders and better utilization of data will result in future growth of the WALIEE program. The progress has led to additional pilots and programs, which are anticipated to help development of the program which continues to be positive.

Low Income Furnace Tune-ups

The program began in January of 2020, and after its pilot year was moved to be included in the WALIEE program in 2021. The offering, while reaching a small number of customers, met its objective of quickly serving those customers and helping them stay safe and warm. NW Natural did not conduct any pilots or trial programs in 2021.

⁷ Note reimbursed costs only reflect NWN's contribution for home weatherization. HSR and Admin are excluded.

⁸ An impact evaluation has not been conducted on these homes so the actual per therm savings has not been verified. The therm estimates are based on modeling software estimates which convert financial savings to therm savings.