CenterPoint Energy considers this entire tab as trade secret work product

$ 100.00 | 0.2469 | 0

	Total Bills	Avg Cust	Volumes aft Curtail	MDQ	CIP Exempt Volumes	Current Basic Charge	Current Demand Charge	Trans Basic Addition	Current MR Rev/Min Vol Revenue	Current Volumetric Market Rate	Current Volumetric Rate	Current Basic	Current Demand	Current Trans	Current Market Rate Volumetric	Current Volumetric	Current CCRC	Current GAP	Total Current	Gas	Revenue	MDQ	
																			(t=j+m+n+o+p+q+r+s)				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i= b x $100)	(j)	(k)	(l= w/o CCRC	(m= b x g)	(n)	(o)	(p)	(q)	(r)	(s)		(t)	(u= s+ t)	(v)	
Residential	10,205,565	850,464	75,250,159		-	$9.50			$0		$2.5624	$96,952,868		$0	$0	$192,821,007	$18,579,264	$0	$308,353,139	451,959,980	760,313,119		2.8093
Commercial/Industrial – A	333,143	27,762	2,186,984		-	$15.00					$3.5523	$4,997,145		$0	$0	$7,768,823	$539,966	$0	$13,305,935	13,135,245	26,441,179		3.7992
Commercial/Industrial – B	251,852	20,988	6,156,328		-	$26.00					$2.1317	$6,548,152		$0	$0	$13,123,444	$1,519,997	$0	$21,191,594	36,975,522	58,167,115		2.3786
Commercial/Industrial – C - Sales	265,150	22,096	40,458,461		-	$65.00					$1.5951	$17,234,750		$0	$0	$64,535,291	$9,989,194	$0	$91,759,235	242,997,562	334,756,797		1.8420
Commercial/Industrial – C - Transport	4,956	413	835,456		-	$165.00		$495,600			$1.5951	$817,740		$495,600	$0	$1,332,636	$206,274	$0	$2,852,250	-	2,852,250		1.8420
Small Volume Dual Fuel – A Sales	3,320	277	1,247,093		-	$80.00			$0		$1.4203	$265,574		$0	$0	$1,771,246	$307,907		$2,344,728	5,819,186	8,163,914		1.6672
Small Volume Dual Fuel – A Transport	292	24	109,635		-	$180.00		$29,184	$0		$1.4203	$52,531		$29,184	$0	$155,714	$27,069		$264,498		264,498		1.6672
Small Volume Dual Fuel – B Sales	657	55	981,283		-	$125.00			$0		$1.3008	$82,080		$0	$0	$1,276,453	$242,279		$1,600,812	4,218,512	5,819,324		1.5477
Small Volume Dual Fuel – B Transport	123	10	183,991		-	$225.00		$12,312	$0		$1.3008	$27,702		$12,312	$0	$239,335	$45,427		$324,776		324,776		1.5477
Large Volume – Firm Sales - Std	300	25	1,172,532	8,448	-	$1,250.00	6.3303				$0.6634	$375,000	$641,703	$0	$0	$777,858	$289,498	$0	$2,084,059	6,722,987	8,807,046	101,370	0.9103
Large Volume - Firm Transport -Std	384	32	2,471,033	13,099	-	$1,350.00	6.3303	$38,400			$0.6634	$518,400	$995,078	$38,400	$0	$1,639,284	$610,098	$0	$3,801,259		3,801,259	157,180	0.9103
Large Volume - Firm Transport - MR	144	12	25,320,724	1,767,861	22,705,066	$1,350.00		$14,400	$9,073,146	$0.1337	$0.1337	$194,400		$14,400	$3,385,381	$0	$645,806	$0	$13,313,133		13,313,133	21,214,330	0.3806
Large Volume Dual Fuel – Sales - Std	616	51	1,781,152			$1,250.00					$0.6634	$769,500		$0	$0	$1,181,616	$439,766		$2,390,882	8,311,210	10,702,093		0.9103
Large Volume Dual Fuel – Sales - MR	108	9	1,651,517			$1,250.00			$81,491	$0.6697	$0.6697	$135,000		$0	$1,106,021	$0	$407,760		$1,730,272	7,706,311	9,436,582		0.9166
Large Volume Dual Fuel – Transport - Std	447	37	3,860,147		664,257	$1,350.00		$44,688	$0		$0.6634	$603,288		$44,688	$0	$2,560,822	$789,065		$3,997,863		3,997,863		0.9103
Large Volume Dual Fuel – Transport - MR	144	12	12,296,743		8,547,674	$1,350.00		$14,400	$3,502	$0.2603	$0.2603	$194,400		$14,400	$3,200,842	$0	$925,645		$4,338,790		4,338,790		0.5072
Total	11,067,200	922,267	175,963,239	1,789,408	31,916,998			$648,984	$9,158,139			$129,768,530	$1,636,780	$648,984	$7,692,244	$289,183,530	$35,565,017	$0	$473,653,224	777,846,514	1,251,499,739		
				1,976,592																			

TARGET REVENUE APPORTIONMENT (from "t")

NON-VOLUMETRIC INCREASES

	Non-Gas Revenue under Current rates	Non-Gas Revenue eligible for increase	Target Increase / (Decrease)	Target Revenue Requirements	Target % Revenue Increase	% Increase in Customer Charge	Increase in Basic Charge	Increase in Demand Charge		Increase in Basic Revenue	Increase In Demand Revenue	Increase In CCRC Revenue	Change In GAP Revenue	Total Non-volumetric Increase
	(w=t)		(x)	(y=w+x)	(z=y/w-1)	(aa)	(ab g x aa)	(ac=h x aa)		(ad=b x ab)	(ae=e x ac)	(af=d x diff (aj))	(ag=d x diff (ak))	(ah=ad+ae+af+ag)
Residential	308,353,139	308,353,139	54,604,442	362,957,581	17.7%	15.8%	1.50			15,308,348		5,530,887	-	20,839,234
Commercial/Industrial – A	13,305,935	13,305,935	2,356,270	15,662,204	17.7%	46.7%	7.00			2,332,001		160,743	-	2,492,744
Commercial/Industrial – B	21,191,594	21,191,594	3,752,695	24,944,288	17.7%	23.1%	6.00			1,511,112		452,490	-	1,963,602
Commercial/Industrial – C - Sales	91,759,235	91,759,235	16,249,103	108,008,338	17.7%	0.0%	-			-		2,973,697	-	2,973,697
Commercial/Industrial – C - Transport	2,852,250	2,852,250	505,088	3,357,338	17.7%	0.0%	-			-		61,406	-	61,406
Small Volume Dual Fuel – A Sales	2,344,728	2,344,728	415,214	2,759,942	17.7%	0.0%	-			-		91,661		91,661
Small Volume Dual Fuel – A Transport	264,498	264,498	46,838	311,336	17.7%	0.0%	-			-		8,058		8,058
Small Volume Dual Fuel – B Sales	1,600,812	1,600,812	283,478	1,884,290	17.7%	0.0%	-		this is used to split increase for LV Firm Dem/Vol	-		72,124		72,124
Small Volume Dual Fuel – B Transport	324,776	324,776	57,513	382,289	17.7%	0.0%	-			-		13,523		13,523
Large Volume – Firm Sales	2,084,059	2,084,059	369,054	2,453,112	17.7%	10.0%	125.00	**0.53127**	1.1210	37,500	53,855	86,181	-	177,536
Large Volume - Firm Transport	17,114,392	4,655,865	824,480	17,938,872	4.8%	9.3%	125.00	**0.53127**		66,000	83,512	373,872	-	523,384
Large Volume Dual Fuel – Sales	4,121,154	2,933,642	519,501	4,640,655	12.6%	9.3%	125.00			90,450		252,301		342,751
Large Volume Dual Fuel – Transport	8,336,653	5,132,308	908,850	9,245,503	10.9%	10.0%	125.00			73,660		510,455		584,315
	473,653,224	456,802,841	80,892,526	554,545,750	17.1%					19,419,271	137,367	10,587,399	-	30,144,036
			80,892,526											

2024 CCRC & GAP BUDGET

	CCRC	GAP
(ai)	(aj)	(ak)
budget	$50,043,051	$0
Sales volume	156,204,297	128,530,954
NEW CCRC factor	0.3204	-
current factor	0.2469	0
difference	0.0735	-
Change	$14,478,034	-
	41%	#DIV/0!

2025 CCRC & GAP BUDGET

	CCRC	GAP
(ai)	(aj)	(ak)
budget	$53,505,854	$0
Sales volume	157,037,932	129,254,699
NEW CCRC factor	0.3407	-
current factor	0.3204	0
difference	0.0203	-
Change	($1,197,993,885)	-
	-96%	#DIV/0!

DETERMINE VOLUMETRIC INCREASE

	Total Non-volumetric Increase	Target Increase / (Decrease)	Volumes aft Curtail	Balance to Recover in Volumetric Rates	Standard Rate Volumes Eligible for Increase	Increase in Volumetric Charge w/o CCRC
	(al=ah)	(am=x)	(an=d)	(ao=am-al)	(ap from d)	(aq)
Residential	20,839,234	54,604,442	75,250,159	33,765,208	75,250,159	0.44870
Commercial/Industrial – A	2,492,744	2,356,270	2,186,984	(136,475)	2,186,984	(0.06250)
Commercial/Industrial – B	1,963,602	3,752,695	6,156,328	1,789,092	6,156,328	0.29070
Commercial/Industrial – C (Sales Svc+Trans)	3,035,103	16,754,191	41,293,917	13,719,088	41,293,917	0.33220
Small Volume Dual Fuel – A Sales Svc + Trans	99,719	462,052	1,356,728	362,333	1,356,728	0.26710
Small Volume Dual Fuel – B Sales Svc + Trans	85,648	340,991	1,165,274	255,343	1,165,274	0.21910
Large Volume (F / S+T)	700,920	1,193,533	28,964,289	492,614	3,643,566	0.13520
Large Volume (DF / S+T)	927,066	1,428,352	19,589,560	501,286	5,641,299	0.08890
Total	30,144,036	80,892,526	175,963,239	50,748,490		

8,000	used to iterate the Demand Charge increase to keep LV rate the same. DELETE FROM FINAL			
80,000,000	323,913	(168,701)	306,068	1.1837

CenterPoint Energy
Docket No. G-008/GR-21-____

$ 100.00 | 0.32040 | -

	Total Bills	Avg Customers	Volumes	MDQ	CIP Exempt Volumes	Proposed Basic	Proposed Demand	Trans Add	MR Rev/Min Vol	Volumetric Market Rate	Volumetric Rate (bc)	Basic	Demand	Trans	Volumetric - Market	Volumetric - Standard	CCRC	GAP	Total Proposed
													(cn=ce x ch x 12)				(cr= [cd-ce] x rate)		
(ca)	(cb=b)	(cc=c)	(cd=d)	(ce=e)	(cf=f)	(cg= g+ab)	(ch=h+ac)	(ci = cb x $100)	(cj = j)	(ck=k)	(cl= l+aq)	(cm = cb x cg)		(co = cl)	(cp =cd x ck)	(cq =cd x cl)	(cs= cd x rate)		(cq=cj + sum(cm-cs)
Residential	10,205,565	850,464	-	-	$11.00				$0	-	3.0111	112,261,215		-	-	226,585,754	24,110,151	-	362,957,120	$3.3315
Commercial/Industrial – A	333,143	27,762	-	-	$22.00				$0	-	3.4898	7,329,146		-	-	7,632,137	700,710	-	15,661,992	$3.8102
Commercial/Industrial – B	251,852	20,988	-	-	$32.00				$0	-	2.4224	8,059,264		-	-	14,913,089	1,972,487	-	24,944,840	$2.7428
Commercial/Industrial – C - Sales	265,150	22,096	-	-	$65.00				$0	-	1.9273	17,234,750		-	-	77,975,592	12,962,891	-	108,173,233	$2.2477
Commercial/Industrial – C - Transport	4,956	413	-	-	$165.00			$495,600	$0	-	1.9273	817,740		495,600	-	1,610,174	267,680	-	3,191,195	$2.2477
Small Volume Dual Fuel – A Sales	3,320	277	-	-	$80.00				$0	-	1.6874	265,574		-	-	2,104,345	399,569		2,769,488	$2.0078
Small Volume Dual Fuel – A Transport	292	24	-	-	$180.00			$29,184	$0	-	1.6874	52,531		29,184	-	184,997	35,127		301,839	$2.0078
Small Volume Dual Fuel – B Sales	657	55	-	-	$125.00				$0	-	1.5199	82,080		-	-	1,491,452	314,403		1,887,935	$1.8403
Small Volume Dual Fuel – B Transport	123	10	-	-	$225.00			$12,312	$0	-	1.5199	27,702		12,312	-	279,647	58,951		378,612	$1.8403
Large Volume – Firm Sales - Std	300	25	8,448	-	$1,375.00	6.8616			$0	-	0.7986	412,500	$695,557	-	-	936,384	375,679	-	2,420,121	$1.1190
Large Volume - Firm Transport -Std	384	32	13,099	-	$1,475.00	6.8616		$38,400	$0	-	0.7986	566,400	$1,078,589	38,400	-	1,973,367	791,719	-	4,448,476	$1.1190
Large Volume - Firm Transport - MR	144	12	1,767,861	22,705,066	$1,475.00			$14,400	$9,073,146	0.1337		212,400		14,400	3,385,381	-	838,057	-	13,523,383	$0.3204
Large Volume Dual Fuel – Sales - Std	616	51	-	-	$1,375.00				$0	-	0.7523	846,450		-	-	1,339,960	570,681		2,757,092	$1.0727
Large Volume Dual Fuel – Sales - MR	108	9	-	-	$1,375.00				$81,491	0.6697		148,500		-	1,106,021	-	529,146		1,865,158	$0.3204
Large Volume Dual Fuel – Transport - Std	447	37	-	664,257	$1,475.00			$44,688	$0	-	0.7523	659,148		44,688	-	2,903,989	1,023,963		4,631,788	$1.0727
Large Volume Dual Fuel – Transport - MR	144	12	-	8,547,674	$1,475.00			$14,400	$3,502	0.2603		212,400		14,400	3,200,842	-	1,201,202		4,632,346
																			$0.3204
Total	11,067,200	922,267	175,963,239		31,916,998		8.4%	648,984	9,158,139		22.9%	149,187,801		648,984	7,692,244	339,930,889	46,152,416	-	554,544,619
check -enter	11,076,098		189,205,082		33,000,785		8.4%		$10,794,915		22.9%	134,390,281							
check - calc	8,898		13,241,843		1,083,788				$1,636,776			14,797,520							

(da)	(db=t)	(dc=dd-db)	(dd=cq)	(de=dd/db-1)	(df=dc % of total)	(dg= cg)	(dh=ch)	(di = cl + new CCRC)	(dj = di + new GAP)	(dk = di or dj)	
	FINAL REVENUE APPORTIONMENT AS PROPOSED					FINAL PROPOSED RATES					
	Non-Gas Revenue under Current rates	Proposed Increase / (Decrease)	Proposed Revenue Requirements	Proposed % Revenue Increase	% of Total Increase	Basic Charge	Demand Charge	"Delivery Charge" (w/CCRC)	Rate w/ GAP	Rate for CARD	
Residential	308,353,139	54,603,981	362,957,120	17.7%	67.5%	$11.00		3.3315	3.3315	3.3315	18.6%
Commercial/Industrial – A	13,305,935	2,356,058	15,661,992	17.7%	2.9%	$22.00		3.8102	3.8102	3.8102	0.3%
Commercial/Industrial – B	21,191,594	3,753,247	24,944,840	17.7%	4.6%	$32.00		2.7428	2.7428	2.7428	15.3%
Commercial/Industrial – C - Sales	91,759,235	16,413,998	108,173,233	17.9%	20.3%	$65.00		2.2477	2.2477	2.2477	22.0%
Commercial/Industrial – C - Transport	2,852,250	338,945	3,191,195	11.9%	0.4%	$265.00		2.2477	2.2477	2.2477	22.0%
Small Volume Dual Fuel – A Sales	2,344,728	424,760	2,769,488	18.1%	0.5%	$80.00		2.0078		2.0078	20.4%
Small Volume Dual Fuel – A Transport	264,498	37,342	301,839	14.1%	0.0%	$280.00		2.0078		2.0078	20.4%
Small Volume Dual Fuel – B Sales	1,600,812	287,123	1,887,935	17.9%	0.4%	$125.00		1.8403		1.8403	18.9%
Small Volume Dual Fuel – B Transport	324,776	53,836	378,612	16.6%	0.1%	$325.00		1.8403		1.8403	18.9%
Large Volume – Firm Sales	2,084,059	336,062	2,420,121	16.1%	0.4%	$1,375.00	6.8616	1.1190	1.1190	1.1190	22.9%
Large Volume - Firm Transport	17,114,392	857,467	17,971,859	5.0%	1.1%	$1,575.00	6.8616	1.1190	1.1190	1.1190	22.9%
Large Volume Dual Fuel – Sales	4,121,154	501,096	4,622,250	12.2%	0.6%	$1,375.00		1.0727		1.0727	17.8%
Large Volume Dual Fuel – Transport	8,336,653	927,482	9,264,134	11.1%	1.1%	$1,575.00		1.0727		1.0727	17.8%
	473,653,224	80,891,395	554,544,619	17.1%	100.0%						

			9.50			2.8093 Current Rate
			15.00			3.7992
		(32,991)	26.00			2.3786
		32,988	65.00			1.8420
		(18,406)	265.00			1.8420
		18,631	80.00			1.6672
			280.00			1.6672
			125.00			1.5477
			325.00			1.5477
			1,250.00	6.3303	8.4%	0.9103
			1,450.00	6.3303	8.4%	0.9103
			1,350.00			0.9103
			1,350.00			0.9103
	6.2%					
	11.5%					

TRANSFER TO CARD MODEL:	1	2	3	4	5	6	7	8	9	10	11	12	13
Proposed Rates:	Res	C/I - A	C/I - B	C/I - C, Sales	C/I - C, Trans	SVDF - A, Sales	SVDF - A, Trans	SVDF - B, Sales	SVDF - B, Trans	Lg Firm - Sales	Lg Firm - Trans	LVDF - Sales	LVDF - Trans
Customer Charge Per Month	$11.00	$22.00	$32.00	$65.00	$265.00	$80.00	$280.00	$125.00	$325.00	$1,375.00	$1,575.00	$1,375.00	$1,575.00
Demand Charge										$6.8616	$6.8616		
Usage Charge per Mcf (incl. GAP)	$3.33150	$3.81020	$2.74280	$2.24770	$2.24770	$2.00780	$2.00780	$1.84030	$1.84030	$1.11900	$1.11900	$1.07270	$1.07270

ASSUMPTIONS:

$37.5 Million
Evenly Apportion Increase
No increase in Residential Basic Chg- All others as requested

Docket No. G-008/GR-23-173
SCHEDULES SHOWING ALL BILLING DETERMINANTS
Proposed: #REF!

Schedule E-2
Information Requirement
Minn. R.7825.4300(B)

SCHEDULES SHOWING ALL BILLING DETERMINANTS
CALCULATION OF PRESENT AND FINAL BILLING RATE REVENUE BY CLASS

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	
	Rate Class			Present Rates			Proposed Rates		Revenue Change	Increase Including CIP/GAP	Increase Without CIP	Increase Margin Only	Model
	Residential - Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue					Non-Gas Rev. Apportionment
1		Customer Bills	10,302,629	$9.50	$97,874,971	Customer Bills	$9.50	$97,874,971	0				
2		Total Sales	76,136,576	$8.8154	$671,174,372	Total Sales	$9.18	$699,070,814	27,896,441				
3		Total Revenue			$769,049,343	Total Revenue		$796,945,784	27,896,441	3.6%	2.9%	7.6%	58.24%
4													
5		Demand	76,136,576	$1.3399	$102,015,398	Demand	$1.34	$102,015,398	0				
6		Commodity	76,136,576	$4.6662	$355,268,491	Commodity	$4.67	$355,268,491	0				
7		**Cost of Gas**	**76,136,576**	$6.0061	**$457,283,889**	**Cost of Gas**	$6.0061	$457,283,889	**0**				
8	**Does not include CCRA**	Delivery Chrg B4 CCRC	76,136,576	$2.5624	$195,092,362	Delivery Chrg B4 CCRC	$2.86	$217,392,765	22,300,403				
9	**Does not include CCRA**	CCRC	76,136,576	$0.2469	$18,798,121	CCRC	$0.32	$24,394,159	5,596,038				
10		**Delivery Charge Total**	**76,136,576**	**$2.8093**	**$213,890,483**	**Delivery Charge Total**	**$3.1757**	$241,786,924	**27,896,441**				
11		GAP	76,136,576	$0.0000	$0	GAP	$0.00	$0	0				
12		**Total Billing Rate**	**76,136,576**	**$8.8154**	**$671,174,372**	**Total Billing Rate**	**$9.1818**	$699,070,814	27,896,441				
13													
14	**Commercial A - Sales Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				
15		Customer Bills	331,201	$15.00	$4,968,015	Customer Bills	$17.00	$5,630,417	662,402				
16		Total Sales	2,207,473	$9.8053	$21,644,935	Total Sales	$10.03	$22,132,927	487,992				
17		Total Revenue			$26,612,950	Total Revenue		$27,763,344	1,150,394	4.3%	3.7%	7.7%	2.03%
18													
19		Demand	2,207,473	$1.3399	$2,957,793	Demand	$1.34	$2,957,793	0				
20		Commodity	2,207,473	$4.6662	$10,300,511	Commodity	$4.67	$10,300,511	0				
21		**Cost of Gas**	**2,207,473**	$6.0061	**$13,258,304**	**Cost of Gas**	$6.0061	$13,258,304	0				
22		Delivery Chrg B4 CCRC	2,207,473	$3.5523	$7,841,606	Delivery Chrg B4 CCRC	$3.70	$8,167,349	325,742				
23		CCRC	2,207,473	$0.2469	$545,025	CCRC	$0.32	$707,274	162,249				
24		**Delivery Charge Total**	**2,207,473**	**$3.7992**	**$8,386,631**	**Delivery Charge Total**	**$4.0203**	$8,874,623	487,992				
25		GAP	2,207,473	$0.0000	$0	GAP	$0.00	$0	0				
26		**Total Billing Rate**	**2,207,473**	**$9.8053**	**$21,644,935**	**Total Billing Rate**	**$10.0264**	$22,132,927	487,992				
27													
28	**Comm/Ind B - Sales Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				
29		Customer Bills	254,099	$26.00	$6,606,574	Customer Bills	$28.00	$7,114,772	508,198				
30		Total Sales	6,215,199	$8.3847	$52,112,579	Total Sales	$8.88	$55,161,756	3,049,177				
31		Total Revenue			$58,719,153	Total Revenue		$62,276,528	3,557,375	6.1%	5.3%	15.6%	4.55%
32													
33		Demand	6,215,199	$1.3399	$8,327,745	Demand	$1.34	$8,327,745	0				
34		Commodity	6,215,199	$4.6662	$29,001,362	Commodity	$4.67	$29,001,362	0				
35		**Cost of Gas**	**6,215,199**	$6.0061	**$37,329,107**	**Cost of Gas**	$6.0061	$37,329,107	0				
36		Delivery Chrg B4 CCRC	6,215,199	$2.1317	$13,248,940	Delivery Chrg B4 CCRC	$2.55	$15,841,299	2,592,360				
37		CCRC	6,215,199	$0.2469	$1,534,533	CCRC	$0.32	$1,991,350	456,817				
38		**Delivery Charge Total**	**6,215,199**	**$2.3786**	**$14,783,472**	**Delivery Charge Total**	**$2.8692**	$17,832,649	3,049,177				
39		GAP	6,215,199	$0.0000	$0	GAP	$0.00	$0	0				
40		**Total Billing Rate**	**6,215,199**	**$8.3847**	**$52,112,579**	**Total Billing Rate**	**$8.8753**	$55,161,756	3,049,177				
41													
1	**Comm/Ind C - Sale Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				
2		Customer Bills	268,371	$65.00	$17,444,115	Customer Bills	$65.00	$17,444,115	0				
3		Total Sales	40,225,283	$7.8481	$315,692,047	Total Sales	$8.37	$336,581,037	20,888,990				
4		Total Revenue			$333,136,162	Total Revenue		$354,025,152	20,888,990	6.3%	5.4%	22.0%	25.87%
5													
6		Demand	40,225,283	$1.3399	$53,897,857	Demand	$1.34	$53,897,857	0				
7		Commodity	40,225,283	$4.6662	$187,699,218	Commodity	$4.67	$187,699,218	0				
8		**Cost of Gas**	**40,225,283**	$6.0061	**$241,597,075**	**Cost of Gas**	$6.0061	$241,597,075	0				
9		Delivery Chrg B4 CCRC	40,225,283	$1.5951	$64,163,350	Delivery Chrg B4 CCRC	$2.04	$82,095,781	17,932,431				
10		CCRC	40,225,283	$0.2469	$9,931,622	CCRC	$0.32	$12,888,181	2,956,558				
11		**Delivery Charge Total**	**40,225,283**	**$1.8420**	**$74,094,972**	**Delivery Charge Total**	**$2.3613**	$94,983,962	20,888,990				
12		GAP	40,225,283	$0.0000	$0	GAP	$0.00	$0	0				
13		**Total Billing Rate**	**40,225,283**	**$7.8481**	**$315,692,047**	**Total Billing Rate**	**$8.3674**	$336,581,037	20,888,990				
14													
15	**Comm/Ind C - Transport Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				
16		Customer Bills	4,956	$165.00	$817,740	Customer Bills	$165.00	$817,740	0				
17		Total Sales	823,818	$1.8420	$1,517,472	Total Sales	$2.36	$1,945,280	427,808				
18		Total Revenue			$2,335,212	Total Revenue		$2,763,020	427,808	18.3%	15.7%	17.2%	0.20%
19													
20		Demand	823,818	$0.0000	$0	Demand	$0.00	$0	0				
21		Commodity	823,818	$0.0000	$0	Commodity	$0.00	$0	0				
22		**Cost of Gas**	**823,818**	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0				
23		Delivery Chrg B4 CCRC	823,818	$1.5951	$1,314,071	Delivery Chrg B4 CCRC	$2.04	$1,681,329	367,258				
24		CCRC	823,818	$0.2469	$203,401	CCRC	$0.32	$263,951	60,551				
25		**Delivery Charge Total**	**823,818**	**$1.8420**	**$1,517,472**	**Delivery Charge Total**	**$2.3613**	$1,945,280	427,808				
26		GAP	823,818	$0.0000	$0	GAP	$0.00	$0	0				
27		**Total Billing Rate**	**823,818**	**$1.8420**	**$1,517,472**	**Total Billing Rate**	**$2.3613**	$1,945,280	427,808				
28													
29	**Total Commercial / Industrial - Firm**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				
30													
31		Customer Bills	858,627		$29,018,704	Customer Bills		$31,007,044	$1,170,600				
32		Total Sales	49,471,773		$389,449,561	Total Sales		$415,821,000	$24,853,966				
33		Total Revenue			$418,468,265	Total Revenue		$446,828,044	$26,024,566				
	SVDF A--Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				
1		Customer Bills	3,320	$80.00	$265,574	Customer Bills	$80.00	$265,574	0				
2		Total Sales	1,243,663	$6.3334	$7,876,616	Total Sales	$6.66	$8,285,142	408,526				
3		MR Revenue		$0.0000	$0	MR Revenue		$0 *	0				
4		Total Revenue			$8,142,190	Total Revenue		$8,550,716	408,526	5.0%	3.9%	15.6%	0.62%
5													
6		Demand	1,243,663	$0.0000	$0	Demand	$0.00	$0	0				
7		Commodity	1,243,663	$4.6662	$5,803,181	Commodity	$4.67	$5,803,181	0				
8		**Cost of Gas**	**1,243,663**	$4.6662	**$5,803,181**	**Cost of Gas**	$4.6662	$5,803,181	0				
9		Delivery Chrg B4 CCRC	1,243,663	$1.4203	$1,766,375	Delivery Chrg B4 CCRC	$1.68	$2,083,491	317,117				
10		CCRC	1,243,663	$0.2469	$307,060	CCRC	$0.32	$398,470	91,409				
11		**Delivery Charge Total**	**1,243,663**	**$1.6672**	**$2,073,435**	**Delivery Charge Total**	**$1.9957**	$2,481,961	408,526				
12		GAP	0	$0.0000	$0	GAP	$0.00	$0	0				
13		**Total Billing Rate**	**1,243,663**	**$6.3334**	**$7,876,616**	**Total Billing Rate**	**$6.6619**	$8,285,142	408,526				
14													
15	**SVDF A--Sales Service Economic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				
16		Customer Bills	5,416	$80.00	$433,306	Customer Bills	$80.00	$433,306	0				
17		Total Sales	2,029,134	$6.3334	$12,851,320	Total Sales	$6.49	$13,177,925	326,604				
18		MR Revenue		$0.0000	$0	MR Revenue		$0 *	0				
19		Total Revenue			$13,284,626	Total Revenue		$13,611,230	326,604	2.5%	1.3%	5.4%	0.99%
20													
21		Demand	2,029,134	$0.0000	$0	Demand	$0.00	$0	0				
22		Commodity	2,029,134	$4.6662	$9,468,347	Commodity	$4.67	$9,468,347	0				
23		**Cost of Gas**	**2,029,134**	$4.6662	**$9,468,347**	**Cost of Gas**	$4.6662	$9,468,347	0				
24		Delivery Chrg B4 CCRC	2,029,134	$1.4203	$2,881,980	Delivery Chrg B4 CCRC	$1.51	$3,059,443	177,463				
25		CCRC	2,029,134	$0.2469	$500,993	CCRC	$0.32	$650,135	149,141	Weighted Average			
26		**Delivery Charge Total**	**2,029,134**	**$1.6672**	**$3,382,973**	**Delivery Charge Total**	**$1.8282**	$3,709,577	326,604	$1.891818344			
27		GAP	0	$0.0000	$0	GAP	$0.00	$0	0				
28		**Total Billing Rate**	**2,029,134**	**$6.3334**	**$12,851,320**	**Total Billing Rate**	**$6.4944**	$13,177,925	326,604				
	SVDF A--Transport		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				
1		Customer Bills	292	$180.00	$52,531	Customer Bills	$180.00	$52,531	0				
2		Total Sales	109,333	$1.6672	$182,280	Total Sales	$1.92	$210,158	27,878				
3		MR Revenue			$0	MR Revenue		$0 *	0				
4		Total Revenue			$234,811	Total Revenue		$262,690	27,878	11.9%	11.9%	13.4%	0.02%
5													
6		Demand	109,333	$0.0000	$0	Demand	$0.00	$0	0				
7		Commodity	109,333	$0.0000	$0	Commodity	$0.00	$0	0				
8		**Cost of Gas**	109,333	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0				
9		Delivery Chrg B4 CCRC	109,333	$1.4203	$155,286	Delivery Chrg B4 CCRC	$1.68	$183,164	27,878				
10		CCRC	109,333	$0.2469	$26,994	CCRC	$0.25	$26,994	0				
11		**Delivery Charge Total**	109,333	**$1.6672**	**$182,280**	**Delivery Charge Total**	**$1.9222**	$210,158	27,878				
12		GAP	0	$0.0000	$0	GAP	$0.00	$0	0				
13		Total Billing Rate	109,333	**$1.6672**	**$182,280**	Total Billing Rate	**$1.9222**	$210,158	27,878				
14													
15	**SVDF A--Transport Econcomic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change				

16		Customer Bills	476	$180.00	$85,709	Customer Bills	$180.00	$85,709		0			
17		Total Sales	178,385	$1.6672	$297,404	Total Sales	$1.83	$326,117		28,712			
18		MR Revenue			$0	MR Revenue		$0	*	0			
19		Total Revenue			$383,113	Total Revenue		$411,825		28,712			
20													
21		Demand	178,385	$0.0000	$0	Demand	$0.00	$0		0			
22		Commodity	178,385	$0.0000	$0	Commodity	$0.00	$0		0			
23		**Cost of Gas**	178,385	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0			
24		Delivery Chrg B4 CCRC	178,385	$1.4203	$253,361	Delivery Chrg B4 CCRC	$1.51	$268,962		15,601			
25		CCRC	178,385	$0.2469	$44,043	CCRC	$0.32	$57,155		13,111	Weighted Average		
26		**Delivery Charge Total**	178,385	**$1.6672**	**$297,404**	**Delivery Charge Total**	**$1.8282**	$326,117		28,712	$1.863888344		
27		GAP	0	$0.0000	$0	GAP	$0.00	$0		0			
28		Total Billing Rate	178,385	**$1.6672**	**$297,404**	Total Billing Rate	**$1.8282**	$326,117		28,712			
29													
30	**SVDF A--Sales Service + Transport**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change			
31		Customer Bills	9,504		837,120	Customer Bills		837,120	*	0			
32		Total Sales	3,560,516		21,207,620	Total Sales		21,999,341	*	791,721			
33		MR Revenue			0	MR Revenue		0	*	0			
34		Total Revenue			$22,044,740	Total Revenue		$22,836,461		791,721	3.6%		1.67%

	SVDF B--Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change			
1		Customer Bills	657	$125.00	$82,080	Customer Bills	$125.00	$82,080		0			
2		Total Sales	989,190	$6.2139	$6,146,726	Total Sales	$6.54	$6,468,022		321,296			
3		MR Revenue						$0	*	0			
4		Curtailment	-29,346	$6.2139	($182,352)	Curtailment	$6.54	($191,884)	*	(9,532)			
5		Total Revenue			$6,046,454	Total Revenue		$6,358,218		311,764	5.2%	4.0%	18.1%	0.46%
6													
7		Demand	959,844	$0.0000	$0	Demand	$0.00	$0		0			
8		Commodity	959,844	$4.6662	$4,478,824	Commodity	$4.67	$4,478,824		0			
9		**Cost of Gas**	959,844	$4.6662	**$4,478,824**	**Cost of Gas**	$4.6662	$4,478,824		0			
10		Delivery Chrg B4 CCRC	959,844	$1.3008	$1,248,565	Delivery Chrg B4 CCRC	$1.55	$1,489,780		241,215			
11		CCRC	959,844	$0.2469	$236,985	CCRC	$0.32	$307,534		70,549			
12		**Delivery Charge Total**	959,844	**$1.5477**	**$1,485,550**	**Delivery Charge Total**	**$1.8725**	$1,797,314		311,764			
13		GAP	0	$0.0000	$0	GAP	$0.00	$0		0			
14		Total Billing Rate	959,844	**$6.2139**	**$5,964,374**	Total Billing Rate	**$6.5387**	$6,276,138		311,764			
15													
16	**SVDF B--Sales Service Economic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change			
17		Customer Bills	1,071	$125.00	$133,920	Customer Bills	$125.00	$133,920		0			
18		Total Sales	1,613,941	$6.2139	$10,028,869	Total Sales	$6.31	$10,183,963		155,094			
19		MR Revenue						$0	*	0			
20		Curtailment	-47,880	$6.2139	($297,522)	Curtailment	$6.31	($302,123)	*	(4,601)			
21		Total Revenue			$9,865,267	Total Revenue		$10,015,759		150,492			
22													
23		Demand	1,566,061	$0.0000	$0	Demand	$0.00	$0		0			
24		Commodity	1,566,061	$4.6662	$7,307,554	Commodity	$4.67	$7,307,554		0			
25		**Cost of Gas**	1,566,061	$4.6662	**$7,307,554**	**Cost of Gas**	$4.6662	$7,307,554		0			
26		Delivery Chrg B4 CCRC	1,566,061	$1.3008	$2,037,132	Delivery Chrg B4 CCRC	$1.40	$2,187,625		150,492			
27		CCRC	1,566,061	$0.2469	$386,660	CCRC	$0.25	$386,660		0	Weighted Average		
28		**Delivery Charge Total**	1,566,061	**$1.5477**	**$2,423,793**	**Delivery Charge Total**	**$1.6438**	$2,574,285		150,492	$1.730706199		
29		GAP	0	$0.0000	$0	GAP	$0.00	$0		0			
30		Total Billing Rate	1,566,061	**$6.2139**	**$9,731,347**	Total Billing Rate	**$6.3100**	$9,881,839		150,492			

	Total SVDF B--Transport		Test-Year Units	Present Rates	Test-Year Revenues	Customer Bills	Proposed Rates	Final Revenue		Change			
1		Customer Bills	123	$225.00	$27,702	Total Sales	$225.00	$27,702		0			
2		Total Sales	185,473	$1.5477	$287,057	Total Revenue	$1.87	$347,300		60,243			
3		MR Revenue			$0			$0	*	0			
4		Curtailment	0		$0			$0	*				
5		Total Revenue			$314,759			$375,002		60,243	19.1%	14.8%	17.3%	0.03%
6													
7		Demand	185,473	$0.0000	$0	Demand	$0.00	$0		0			
8		Commodity	185,473	$0.0000	$0	Commodity	$0.00	$0		0			
9		**Cost of Gas**	185,473	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0			
10		Delivery Chrg B4 CCRC	185,473	$1.3008	$241,263	Delivery Chrg B4 CCRC	$1.55	$287,874		46,611			
11		CCRC	185,473	$0.2469	$45,793	CCRC	$0.32	$59,426		13,632			
12		**Delivery Charge Total**	185,473	**$1.5477**	**$287,057**	**Delivery Charge Total**	**$1.8725**	$347,300		60,243			
13		GAP	0	$0.0000	$0	GAP	$0.00	$0		0			
14		**Total Billing Rate**	185,473	**$1.5477**	**$287,057**	**Total Billing Rate**	**$1.8725**	$347,300		60,243			
15													
16	**Total SVDF B--Transport Economic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues	Customer Bills	Proposed Rates	Final Revenue		Change			
17		Customer Bills	201	$225.00	$45,198	Total Sales	$225.00	$45,198		0			
18		Total Sales	302,614	$1.5477	$468,356	Total Revenue	$1.72	$519,678		51,322			
19		MR Revenue			$0			$0	*	0			
20		Curtailment			$0			$0	*				
21		Total Revenue			$513,554			$564,876		51,322			
22													
23		Demand	302,614	$0.0000	$0	Demand	$0.00	$0		0			
24		Commodity	302,614	$0.0000	$0	Commodity	$0.00	$0		0			
25		**Cost of Gas**	302,614	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0			
26		Delivery Chrg B4 CCRC	302,614	$1.3008	$393,640	Delivery Chrg B4 CCRC	$1.40	$422,720		29,080			
27		CCRC	302,614	$0.2469	$74,715	CCRC	$0.32	$96,958		22,242	Weighted Average		
28		**Delivery Charge Total**	302,614	**$1.5477**	**$468,356**	**Delivery Charge Total**	**$1.7173**	$519,678		51,322	$1.776276199		
29		GAP	0	$0.0000	$0	GAP	$0.00	$0		0			
30		**Total Billing Rate**	302,614	**$1.5477**	**$468,356**	**Total Billing Rate**	**$1.7173**	$519,678		51,322			
31													
32	**SVDF B--Sales Service + Transport**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change			
33		Customer Bills	2,052		$288,900	Customer Bills		$288,900		0			
34		Total Sales	3,013,992		$16,451,133	Total Sales		$17,024,954		573,821			
35		MR Revenue			$0	MR Revenue		$0		0			
36		Total Revenue			$16,740,033	Total Revenue		$17,313,854		573,821	3.4%		1.27%

	Large General Firm Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change			
1		Customer Bills	300	$1,250.00	$375,000	Customer Bills	$1,550.00	$465,000		90,000			
2		Total Sales	1,175,316	$5.5765	$7,805,869	Total Sales	$5.81	$8,084,536	*	278,668			
3		Demand Delivery (x 12)	8,448	$6.3303	$641,700	Demand Delivery	$6.33	$641,703		3			
4		CCRC Exempt Volumes	0			CCRC Exempt Volumes							
5		Total Revenue			$8,822,569	Total Revenue		$9,191,239		368,670	4.2%	3.2%	15.7%	0.67%
6													
7		Demand (peak x 12))	8,448	$12.3480	$1,251,717	Demand	$12.35	$1,251,717		0			
8		Commodity	1,175,316	$4.6662	$5,484,262	Commodity	$4.67	$5,484,262		0			
9		**Cost of Gas**		$4.6662	**$6,735,978**	**Cost of Gas**	$4.6662	**$6,735,978**		0			
10		Delivery Chrg B4 CCRC	1,175,316	$0.6634	$779,705	Delivery Chrg B4 CCRC	$0.83	$971,987		192,282			
11		CCRC	1,175,316	$0.2469	$290,186	CCRC	$0.32	$376,571		86,386			
12		**Delivery Charge Total**		**$0.9103**	**$1,069,891**	**Delivery Charge Total**	**$1.1474**	**$1,348,558**		278,668			
13		GAP	1,175,316	$0.0000	$0	GAP	$0.00	$0		0		$1,711,591	
14		**Total Billing Rate**	1,175,316	**$5.5765**	**$7,805,869**	**Total Billing Rate**	**$5.8136**	$8,084,536		278,668			
15													
16	**Large Volume Firm Transportation Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change			
17		Customer Bills	384	$1,350.00	$518,400	Customer Bills	$1,650.00	$633,600		115,200			
18		Total Sales	2,471,033	$0.9103	#REF!	Total Sales	$1.15	$2,835,264	*	#REF!			
19		Demand Delivery (x 12)	13,099	$6.3303	$995,076	Demand Delivery	$6.33	$995,078		2			
20		CCRC Exempt Volumes	0			CCRC Exempt Volumes							
21	**456**	Total Revenue			#REF!	Total Revenue		$4,463,941		#REF!	#REF!	#REF!	16.5%	0.33%
22													
23		Demand (peak x 12))	13,099	#REF!	#REF!	Demand	$0.00	$0		#REF!			
24		Commodity	2,471,033	$0.0000	$0	Commodity	$0.00	$0		0			
25		**Cost of Gas**		$0.0000	**#REF!**	**Cost of Gas**	$0.0000	**$0**		#REF!			
26		Delivery Chrg B4 CCRC	2,471,033	$0.6634	$1,639,284	Delivery Chrg B4 CCRC	$0.83	$2,043,545		404,261			
27		CCRC	2,471,033	$0.2469	$610,098	CCRC	$0.32	$791,719		181,621			
28		**Delivery Charge Total**		**$0.9103**	**$2,249,382**	**Delivery Charge Total**	**$1.1474**	**$2,835,264**		585,882			
29		GAP	2,471,033	$0.0000	$0	GAP	$0.00	$0		0			
30		**Total Billing Rate**	2,471,033	**$0.9103**	**#REF!**	**Total Billing Rate**	**$1.1474**	$2,835,264		#REF!			

1	**Large Volume Firm Transportation - MR**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change			
2		Customer Bills	144	$1,350.00	$194,400	Customer Bills	$1,650.00	$237,600		43,200			
3		Total Sales	25,328,869		$4,034,287	Total Sales		$4,424,701	*	390,415			
4		Demand Delivery	1,767,861		$8,904,236 *	Demand Delivery		$8,904,236	*	0			
5		MR Adj / Min Vol			$168,910	MR Adj / Min Vol		$168,910					
6		CCRC Exempt Volumes	22,705,066			CCRC Exempt Volumes	na			0			
7		Total Revenue			$13,301,833	Total Revenue		$13,735,447		433,615	3.3%	1.8%	1.9%	1.00%
8													
9		Demand (peak x 12))	1,767,861	$0.0000	$0	Demand	$0.00	$0		0			
10		Commodity	25,328,869	$0.0000	$0	Commodity	$0.00	$0		0			
11		**Cost of Gas**	25,328,869	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0			
12		Delivery Chrg B4 CCRC	25,328,869	$0.1337	$3,386,470	Delivery Chrg B4 CCRC	$0.14	$3,584,035		197,565			
13		CCRC	2,623,802	$0.2469	$647,817	CCRC	$0.32	$840,666		192,849			
14		**Delivery Charge Total**	25,328,869	**$0.3806**	**$4,034,287**	**Delivery Charge Total**	**NA**	$4,424,701		390,415		20%	

15		GAP	0	NA	$0	GAP	$0.0000	$0		0				
16		**Total Billing Rate**	25,328,869		**$4,034,287**	**Total Billing Rate**		$4,424,701		390,415				
17														
18	**Total Large Volume**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change				
19	**Firm**	Customer Bills	828		$1,087,800	Customer Bills		$702,600 *		(385,200)				
20	**(Sales+Transport)**	Total Sales	28,975,218		#REF!	Total Sales		$12,509,238 *		#REF!				
21		Demand Delivery / MR Adj			$10,709,922 *	Demand Delivery		$9,545,939 *		(1,163,983)				
22		CCRC Exempt Volumes	22,705,066			CCRC Exempt Volumes								
23		Total Revenue			#REF!	Total Revenue		$22,757,776		#REF!		#DIV/0!		1.66%
	Large Volume Dual Fuel-Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change				
1		Customer Bills	616	$1,250.00	$769,500	Customer Bills	$1,550.00	$954,180		184,680				
2		Total Sales	1,838,068	$5.5765	$10,015,674	Total Sales	$5.81	$10,447,975		432,301				
3		Curtailment	-47,691	$0.6634	($31,638)	Curtailment	$0.83	($39,440)		(7,802)				
4		Total Revenue			$10,753,536	Total Revenue		$11,362,715		609,178	5.7%	4.4%	24.4%	0.83%
5														
6		Demand	1,790,377	$0.0000	$0	Demand	$0.00	$0		0				
7		Commodity	1,790,377	$4.6662	$8,354,256	Commodity	$4.67	$8,354,256		0				
8		**Cost of Gas**	1,790,377	$4.6662	**$8,354,256**	**Cost of Gas**	$4.6662	$8,354,256		0				
9		Delivery Chrg B4 CCRC	1,790,377	$0.6634	$1,187,736	Delivery Chrg B4 CCRC	$0.83	$1,480,642		292,906				
10		CCRC	1,790,377	$0.2469	$442,044	CCRC	$0.32	$573,637		131,593				
11		**Delivery Charge Total**	1,790,377	**$0.9103**	**$1,629,780**	**Delivery Charge Total**	**$1.1474**	$2,054,278		424,498				
12		GAP	0	$0.0000	$0	GAP	$0.00	$0		0				
13		**Total Billing Rate**	1,790,377	**$5.5765**	**$9,984,036**	**Total Billing Rate**	**$5.8136**	$10,408,535		424,498				
14														
15	**Large Volume Dual Fuel-Sales Service-Econ Curtail**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change				
16		Customer Bills	1,004	$1,250.00	$1,255,500	Customer Bills	$1,550.00	$1,556,820		301,320				
17		Total Sales	2,998,952	$5.5765	$16,341,363	Total Sales	$5.73	$16,798,682		457,319				
18		Curtailment	-77,811	$0.6634	($51,620)	Curtailment	$0.74	($57,915)		(6,295)				
19		Total Revenue			$17,545,243	Total Revenue		$18,297,588		752,344				
20														
21		Demand	2,921,141	$0.0000	$0	Demand	$0.00	$0		0				
22		Commodity	2,921,141	$4.6662	$13,630,629	Commodity	$4.67	$13,630,629		0				
23		**Cost of Gas**	2,921,141	$4.6662	**$13,630,629**	**Cost of Gas**	$4.6662	$13,630,629		0				
24		Delivery Chrg B4 CCRC	2,921,141	$0.6634	$1,937,885	Delivery Chrg B4 CCRC	$0.74	$2,174,205		236,320				
25		CCRC	2,921,141	$0.2469	$721,230	CCRC	$0.32	$935,934		214,704	Weighted Average			
26		**Delivery Charge Total**	2,921,141	**$0.9103**	**$2,659,115**	**Delivery Charge Total**	**$1.0647**	$3,110,139		451,024	$1.0961260000			
27		GAP	0	$0.0000	$0	GAP	$0.00	$0		0				
28		**Total Billing Rate**	2,921,141	**$5.5765**	**$16,289,743**	**Total Billing Rate**	**$5.7309**	$16,740,768		451,024				
	Large Volume Dual Fuel--MR-Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change				
1		Customer Bills	108	$1,250.00	$135,000	Customer Bills	$1,550.00	$167,400		32,400				
2		Total Sales	1,737,398		$9,539,683 *	Total Sales		$9,756,377 *		216,694				
3		CCRC Exempt Volumes	0			CCRC Exempt Volumes								
4		MR Adj/ Minimum Volume			$81,491 *	Minimum Volume		$81,491 *		0				
5		Curtailment	-32,538	$0.6697	($21,791)	Curtailment	$0.72	($23,502) *		(1,711)				
6		Total Revenue			$9,734,383	Total Revenue		$9,981,766		247,383	2.5%	1.3%	9.0%	0.73%
7														
8		Demand	1,704,860	$0.0000	$0	Demand	$0.00	$0		0				
9		Commodity	1,704,860	$4.6662	$7,955,217	Commodity	$4.67	$7,955,217		0				
10		**Cost of Gas**	1,704,860	$4.6662	**$7,955,217**	**Cost of Gas**	$4.6662	$7,955,217		0				
11		Delivery Chrg B4 CCRC	1,704,860	$0.6697	$1,141,745	Delivery Chrg B4 CCRC	$0.72	$1,231,420		89,676				
12		CCRC	1,704,860	$0.2469	$420,930	CCRC	$0.32	$546,237		125,307				
13		**Delivery Charge Total**	1,704,860	**NA**	**$1,562,675**	**Delivery Charge Total**	**NA**	$1,777,657		214,983				
14		GAP	0	$0.0000	$0	GAP	$0.00	$0		0				
15		**Total Billing Rate**	1,704,860	**$5.5828**	**$9,517,892**	**Total Billing Rate**	**$5.7089**	$9,732,875		214,983				
16														
17	**Total Large Volume**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change				
18	**Dual Fuel Sales**	Customer Bills	1,728	$1,250.00	$2,160,000	Customer Bills	$1,550.00	$2,678,400 *		518,400				
19	**Service, incl.**	Total Sales	6,574,418		$35,896,720 *	Total Sales	$5.81	$37,003,034 *		1,106,314				
20	**Market Rate**	Minimum Volume			$81,491 *	Minimum Volume		$81,491 *		0				
21		CCRC Exempt Volumes	0			CCRC Exempt Volumes								
22		Curtailment	(158,040)		($105,049) *	Curtailment	$5.81	($120,857) *		(15,809)				
23		Total Revenue			$38,033,162	Total Revenue		$39,642,068		1,608,905	4.2%	1.6%		2.90%
	Large Volume Dual Fuel-Transport		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change				
1		Customer Bills	447	$1,350.00	$603,288	Customer Bills	$1,650.00	$737,352		134,064				
2		Total Sales	3,956,202	$0.9103	$3,414,477	Total Sales	$1.15	$4,296,867		882,391				
3		CCRC Exempt Volumes	664,257			CCRC Exempt Volumes				0				
4		MR - Minimum Volume Adj			$0 *	Minimum Volume/Demand		$0 *		0				
5		Curtailment	-92,544	$0.6634	($61,394)	Curtailment	$0.83	($76,534) *		(15,140)				
6		Total Revenue			$3,956,371	Total Revenue		$4,957,685		1,001,314	25.3%	19.4%	24.2%	0.36%
7														
8		Demand	3,863,658	$0.0000	$0	Demand	$0.00	$0		0				
9		Commodity	3,863,658	$0.0000	$0	Commodity	$0.00	$0		0				
10		**Cost of Gas**	3,863,658	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0				
11		Delivery Chrg B4 CCRC	3,863,658	$0.6634	$2,563,151	Delivery Chrg B4 CCRC	$0.83	$3,195,245		632,094				
12		CCRC	3,199,401	$0.2469	$789,932	CCRC	$0.32	$1,025,088		235,156				
13		**Delivery Charge Total**	3,863,658	**$0.9103**	**$3,353,083**	**Delivery Charge Total**	**$1.1474**	$4,220,333		867,250				
14		GAP	0	$0.0000	$0	GAP	$0.00	$0		0				
15		**Total Billing Rate**	3,863,658	**$0.9103**	**$3,353,083**	**Total Billing Rate**	**$1.1474**	**$4,220,333**		867,250				
16														
17	**Large Volume Dual Fuel-Transport Econ Curtail**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change				
18		Customer Bills	729	$1,350.00	$984,312	Customer Bills	$1,650.00	$1,203,048		218,736				
19		Total Sales	6,454,856	$0.9103	$5,570,988	Total Sales	$1.06	$6,476,861		905,873				
20		CCRC Exempt Volumes	1,083,788			CCRC Exempt Volumes				0				
21		MR - Minimum Volume Adj			#REF! *	Minimum Volume/Demand		$2 *		#REF!				
22		Curtailment	-150,994	$0.6634	($100,169)	Curtailment	$0.74	($112,385) *		(12,215)				
23		Total Revenue			#REF!	Total Revenue		$7,567,527		#REF!				
24														
25		Demand	6,303,863	$0.0000	$0	Demand	$0.00	$0		0				
26		Commodity	6,303,863	$0.0000	$0	Commodity	$0.00	$0		0				
27		**Cost of Gas**	6,303,863	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0				
28		Delivery Chrg B4 CCRC	6,303,863	$0.6634	$4,181,983	Delivery Chrg B4 CCRC	$0.74	$4,691,965		509,982				
29		CCRC	5,220,075	$0.2469	$1,288,836	CCRC	$0.32	$1,672,512		383,676	Weighted Average			
30		**Delivery Charge Total**	6,303,863	**$0.9103**	**$5,470,819**	**Delivery Charge Total**	**$1.0647**	$6,364,477		893,658	$1.041041421			
31		GAP	0	$0.0000	$0	GAP	$0.00	$0		0				
32		**Total Billing Rate**	6,303,863	**$0.9103**	**$5,470,819**	**Total Billing Rate**	**$1.0647**	**$6,364,477**		893,658		1,748,045		
												$560,073.59		
	Large Volume Dual Fuel- MR- Transport		Test-Year Units	Present Rates			Proposed Rates	Final Revenue		Change				
1		Customer Bills	144	$1,350.00	$194,400	Customer Bills	$1,650.00	$237,600		43,200				
2		Total Sales	12,509,690		$4,181,918 *	Total Sales		$4,665,135 *		483,217				
3		CCRC Exempt Volumes	8,547,674			CCRC Exempt Volumes								
4		MR - Minimum Volume Adj		na	$3,502 *	Minimum Volume	na	$3,502 *		0				
5		Curtailment	-212,947	$0.2603	($55,430) *	Curtailment	$0.28	($58,965) *		(3,535)				
6		Total Revenue			$4,324,390	Total Revenue		$4,847,272		522,883	12.1%	5.7%	7.3%	0.35%
7														
8		Demand	12,296,743	$0.0000	$0	Demand	$0.00	$0		0				
9		Commodity	12,296,743	$0.0000	$0	Commodity	$0.00	$0		0				
10		**Cost of Gas**	12,296,743	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0				
11		Delivery Chrg B4 CCRC	12,296,743	$0.2603	$3,200,842	Delivery Chrg B4 CCRC	$0.28	$3,404,968		204,126				
12		CCRC	3,749,069	$0.2469	$925,645	CCRC	$0.32	$1,201,202		275,557				
13		**Delivery Charge Total**	12,296,743	**NA**	**$4,126,487**	**Delivery Charge Total**	**NA**	$4,606,170		479,683				
14		GAP	0	$0.0000	$0	GAP	$0.00	$0		0				
15		**Total Billing Rate**	12,296,743	**$0.5072**	**$4,126,487**	**Total Billing Rate**	**$0.5973**	$4,606,170		479,683				
16														
17	**Total Large Volume Dual Fuel Transport**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change				
18		Customer Bills	1,320	$1,350.00	$1,782,000	Customer Bills	$1,650.00	$2,178,000 *		396,000				
19		Total Sales	22,920,749	$0.9103	$13,167,382 *	Minimum Volume	$1.1474	$15,438,864 *		2,271,481				
20	**(DF Transport +**	CCRC Exempt Volumes	10,295,719			CCRC Exempt Volumes		*		0				
21	**MR Transport)**	Minimum Volume/Demand			#REF! *			$3,504 *		#REF!				
22		Curtailment	(456,485)		($216,993) *			($247,884) *		(30,891)				
23		Total Revenue			#REF!	Total Revenue		$17,372,484		#REF!	#REF!	#REF!		1.27%
	Total Company Revenue Results		Test-Year Units		Test-Year Revenues			Final Revenue		Change				
1		**Customer Bills**	**11,176,688**		**$ 133,867,235**	**Customer Bills**		**$ 136,200,635**		**$2,333,400**				
2		**Total Thruput (B4 curtail)**	**190,730,468**		**#REF!**	**Total Sales**		**$ 1,222,196,516**		**#REF!**				
3		**CCRC Exempt Volumes**	**33,000,785**			**CCRC Exempt Volumes**								
4		**Demand Delivery**			**$ 10,541,012**			**$ 10,541,016**		**4**				
5		**Min. Vol/MR adjust**			**$ 253,903**	**Demand Del/Min. Vol/MR**		**$ 253,903**		**0**				
6		Curtailment	**(691,751)**		**$ (801,917)**	Curtailment		**$ (862,749)**		**(60,832)**				
7		**Total Revenue**	**190,038,717**		**#REF!**	**Total Revenue**		**$ 1,368,329,321**		**#REF!**	#REF!	#REF!	11.2%	100.00%
8														
9		Demand (Firm Sales)	125,959,848		#REF!	Demand		$ 168,450,511		#REF!				

10		Commodity (after curtail)	138,174,928	$ 644,751,850	Commodity	$ 644,751,850	0		
11		**Cost of Gas**		#REF!	**Cost of Gas**	$ 813,202,361	#REF!		
12		Delivery Chrg B4 CCRC	190,038,717	$ 310,656,730	Delivery Chrg B4 CCRC	$ 357,939,595	47,282,864		
13		CCRC (less exempt)	157,037,932	$ 38,772,665	CCRC	$ 50,191,812	11,419,147		
14		**Delivery Charge Total**		$ 349,429,396	**Delivery Charge Total**	$ 408,131,406	58,702,011		
15		GAP (Firm only)	**129,254,699**	$ -	GAP	$ -	0		
16		Total Revenue		#REF!	**Total Billing Rate**	$ 1,221,333,767	#REF!		
17									
18									
19			Natural Gas Sales Service Revenue	$ 1,271,711,876		$ 1,328,380,038	56,668,161		4.5%
20			Transport Revenue	#REF!	$320,649,728.66	$ 39,949,286	#REF!	#REF!	
21			Total Revenue	#REF!		$ 1,368,329,323	#REF!	#REF!	
22									
23			Net Margin Revenue 1/	$ 494,091,545		$ 555,126,960	61,035,415		12.4%
24									
25			Volumetric Margin Revenue 2/	$ 360,224,311		$ 418,926,325	58,702,015		16.3%
26									
27		1/ incl Basic, Delivery, CCRC, GAP and Demand/Min Vol							
28		2/ incl Delivery, CCRC, GAP and Demand/Min Vol. Does NOT include Basic Charge Revenue							
	Firm SALES SERVICE								
		Customer Bills	11,156,600	$127,268,675		$128,529,275	1,260,600		
	(Excludes Firm Transpor	**Total FIRM Sales**	125,959,848	$1,068,429,802		$1,121,031,069	52,601,267		
		CCRC Exempt Volumes							
		Demand Margin		$641,700		$641,703	3		
		Curtailment							
		Total Revenue		1,196,340,177		1,250,202,047	53,861,869		
		Demand		$168,450,511		$168,450,511	0		
		Commodity		$587,753,842		$587,753,842	0		
		Cost of Gas		$756,204,353		$756,204,353	0		
		Delivery Chrg B4 CCRC	(volumetric only)	$281,125,963		$324,469,181	43,343,218		
		CCRC		$31,099,486		$40,357,535	9,258,049		
		Delivery Charge Total		$312,225,449		$364,826,716	52,601,267		
		GAP	(Does not include Firm Transport)	$0		$0	0		
		Total Revenue		$1,068,429,802		$1,121,031,069	52,601,267		
	LARGE VOLUME SALES (FIRM + SALES + TRANS)								
		Customer Bills	3,876	$ 5,029,800		$ 6,192,600	1,162,800		
		Total Large Volume Sales	58,470,385	#REF!		$ 67,786,399	#REF!		
		CCRC Exempt Volumes	33,000,785				0		
		Demand Margin		$ 10,541,012		$ 10,541,016	4		
		Min Volume/ Adj		$ 253,903		$ 253,903	0		
		Curtailment	(614,525)	$ (322,042)		$ (368,741)	(46,699)		
		Total Revenue		#REF!		$ 84,405,177	#REF!	#REF!	
		Demand		#REF!		$1,251,717	#REF!		
		Commodity		$35,424,364		$35,424,364	0		
		Cost of Gas		#REF!		$36,676,081	#REF!		
		Delivery Chrg B4 CCRC	(volumetric only)	$20,018,799		$22,778,012	2,759,212		
		CCRC		$6,136,718		$7,963,566	1,826,848		
		Delivery Charge Total		$26,155,517		$30,741,578	4,586,060		
		GAP		$0		$0	0		
		Total Revenue		#REF!		$67,417,658	#REF!		

Docket No. G-008/GR-23-173
SCHEDULES SHOWING ALL BILLING DETERMINANTS
Proposed: $ 60,776,002

SCHEDULES SHOWING ALL BILLING DETERMINANTS
CALCULATION OF PRESENT AND FINAL BILLING RATE REVENUE BY CLASS

Rate Class

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
			Present Rates				Proposed Rates		Revenue Change
	Residential - Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	
1		Customer Bills	10,205,565	$9.50	$96,952,868	Customer Bills	$9.50	$96,952,868	0
2		Total Sales	75,250,159	$8.8154	$663,360,252	Total Sales	$9.1818	$690,931,910	27,571,658
3		Total Revenue			$760,313,119	Total Revenue		$787,884,777	27,571,658
4									
5		Demand	75,250,159	$1.3399	$100,827,688	Demand	$1.3399	$100,827,688	0
6		Commodity	75,250,159	$4.6662	$351,132,292	Commodity	$4.6662	$351,132,292	0
7		**Cost of Gas**	**75,250,159**	$6.0061	**$451,959,980**	**Cost of Gas**	$6.0061	$451,959,980	**0**
8	**Does not include CCRA**	Delivery Chrg B4 CCRC	75,250,159	$2.5624	$192,821,007	Delivery Chrg B4 CCRC	$2.8553	$214,861,779	22,040,772
9	**Does not include CCRA**	CCRC	75,250,159	$0.2469	$18,579,264	CCRC	$0.3204	$24,110,151	5,530,887
10		**Delivery Charge Total**	**75,250,159**	**$2.8093**	**$211,400,272**	**Delivery Charge Total**	**$3.1757**	$238,971,930	**27,571,658**
11		GAP	75,250,159	$0.0000	$0	GAP	$0.0000	$0	0
12		**Total Billing Rate**	**75,250,159**	**$8.8154**	**$663,360,252**	**Total Billing Rate**	**$9.1818**	$690,931,910	27,571,658
13									
14	**Commercial A - Sales Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
15		Customer Bills	333,143	$15.00	$4,997,145	Customer Bills	$17.00	$5,663,431	666,286
16		Total Sales	2,186,984	$9.8053	$21,444,034	Total Sales	$10.0264	$21,927,496	483,462
17		Total Revenue			$26,441,179	Total Revenue		$27,590,927	1,149,748
18									
19		Demand	2,186,984	$1.3399	$2,930,340	Demand	$1.3399	$2,930,340	0
20		Commodity	2,186,984	$4.6662	$10,204,905	Commodity	$4.6662	$10,204,905	0
21		**Cost of Gas**	**2,186,984**	$6.0061	**$13,135,245**	**Cost of Gas**	$6.0061	$13,135,245	0
22		Delivery Chrg B4 CCRC	2,186,984	$3.5523	$7,768,823	Delivery Chrg B4 CCRC	$3.6999	$8,091,542	322,719
23		CCRC	2,186,984	$0.2469	$539,966	CCRC	$0.3204	$700,710	160,743
24		**Delivery Charge Total**	**2,186,984**	**$3.7992**	**$8,308,790**	**Delivery Charge Total**	**$4.0203**	$8,792,252	483,462
25		GAP	2,186,984	$0.0000	$0	GAP	$0.0000	$0	0
26		**Total Billing Rate**	**2,186,984**	**$9.8053**	**$21,444,034**	**Total Billing Rate**	**$10.0264**	$21,927,496	483,462
27									
28	**Comm/Ind B - Sales Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
29		Customer Bills	251,852	$26.00	$6,548,152	Customer Bills	$28.00	$7,051,856	503,704
30		Total Sales	6,156,328	$8.3847	$51,618,963	Total Sales	$8.8753	$54,639,258	3,020,295
31		Total Revenue			$58,167,115	Total Revenue		$61,691,114	3,523,999
32									
33		Demand	6,156,328	$1.3399	$8,248,864	Demand	$1.3399	$8,248,864	0
34		Commodity	6,156,328	$4.6662	$28,726,658	Commodity	$4.6662	$28,726,658	0
35		**Cost of Gas**	**6,156,328**	$6.0061	**$36,975,522**	**Cost of Gas**	$6.0061	$36,975,522	0
36		Delivery Chrg B4 CCRC	6,156,328	$2.1317	$13,123,444	Delivery Chrg B4 CCRC	$2.5488	$15,691,249	2,567,804
37		CCRC	6,156,328	$0.2469	$1,519,997	CCRC	$0.3204	$1,972,487	452,490
38		**Delivery Charge Total**	**6,156,328**	**$2.3786**	**$14,643,442**	**Delivery Charge Total**	**$2.8692**	$17,663,736	3,020,295
39		GAP	6,156,328	$0.0000	$0	GAP	$0.0000	$0	0
40		**Total Billing Rate**	**6,156,328**	**$8.3847**	**$51,618,963**	**Total Billing Rate**	**$8.8753**	$54,639,258	3,020,295
41									
1	**Comm/Ind C - Sale Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
2		Customer Bills	265,150	$65.00	$17,234,750	Customer Bills	$65.00	$17,234,750	0
3		Total Sales	40,458,461	$7.8481	$317,522,047	Total Sales	$8.3674	$338,532,126	21,010,079
4		Total Revenue			$334,756,797	Total Revenue		$355,766,876	21,010,079
5									
6		Demand	40,458,461	$1.3399	$54,210,292	Demand	$1.3399	$54,210,292	0
7		Commodity	40,458,461	$4.6662	$188,787,270	Commodity	$4.6662	$188,787,270	0

8		**Cost of Gas**	**40,458,461**	$6.0061	**$242,997,562**	**Cost of Gas**	$6.0061	$242,997,562	0
9		Delivery Chrg B4 CCRC	40,458,461	$1.5951	$64,535,291	Delivery Chrg B4 CCRC	$2.0409	$82,571,673	18,036,382
10		CCRC	40,458,461	$0.2469	$9,989,194	CCRC	$0.3204	$12,962,891	2,973,697
11		**Delivery Charge Total**	**40,458,461**	**$1.8420**	**$74,524,485**	**Delivery Charge Total**	**$2.3613**	$95,534,564	21,010,079
12		GAP	40,458,461	$0.0000	$0	GAP	$0.0000	$0	0
13		**Total Billing Rate**	**40,458,461**	**$7.8481**	**$317,522,047**	**Total Billing Rate**	**$8.3674**	$338,532,126	21,010,079
14									
15	**Comm/Ind C - Transport Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
16		Customer Bills	4,956	$165.00	$817,740	Customer Bills	$165.00	$817,740	0
17		Total Sales	835,456	$1.8420	$1,538,910	Total Sales	$2.3613	$1,972,762	433,852
18		Total Revenue			$2,356,650	Total Revenue		$2,790,502	433,852
19									
20		Demand	835,456	$0.0000	$0	Demand	$0.0000	$0	0
21		Commodity	835,456	$0.0000	$0	Commodity	$0.0000	$0	0
22		**Cost of Gas**	**835,456**	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0
23		Delivery Chrg B4 CCRC	835,456	$1.5951	$1,332,636	Delivery Chrg B4 CCRC	$2.0409	$1,705,082	372,446
24		CCRC	835,456	$0.2469	$206,274	CCRC	$0.3204	$267,680	61,406
25		**Delivery Charge Total**	**835,456**	**$1.8420**	**$1,538,910**	**Delivery Charge Total**	**$2.3613**	$1,972,762	433,852
26		GAP	835,456	$0.0000	$0	GAP	$0.0000	$0	0
27		**Total Billing Rate**	**835,456**	**$1.8420**	**$1,538,910**	**Total Billing Rate**	**$2.3613**	$1,972,762	433,852
28									
29	**Total Commercial / Industrial - Firm**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
30									
31		Customer Bills	855,101		$28,780,047	Customer Bills		$30,767,777	$1,169,990
32		Total Sales	49,637,229		$390,585,045	Total Sales		$417,071,643	$24,947,688
33		Total Revenue			$419,365,092	Total Revenue		$447,839,420	$26,117,678

	SVDF A--Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	3,320	$80.00	$265,574	Customer Bills	$80.00	$265,574	0
2		Total Sales	1,247,093	$6.3334	$7,898,340	Total Sales	$6.6619	$8,307,992	409,653
3		MR Revenue		$0.0000	$0	MR Revenue		$0 *	0
4		Total Revenue			$8,163,914	Total Revenue		$8,573,567	409,653
5									
6		Demand	1,247,093	$0.0000	$0	Demand	$0.0000	$0	0
7		Commodity	1,247,093	$4.6662	$5,819,186	Commodity	$4.6662	$5,819,186	0
8		**Cost of Gas**	**1,247,093**	$4.6662	**$5,819,186**	**Cost of Gas**	$4.6662	$5,819,186	0
9		Delivery Chrg B4 CCRC	1,247,093	$1.4203	$1,771,246	Delivery Chrg B4 CCRC	$1.6753	$2,089,238	317,991
10		CCRC	1,247,093	$0.2469	$307,907	CCRC	$0.3204	$399,569	91,661
11		**Delivery Charge Total**	**1,247,093**	**$1.6672**	**$2,079,154**	**Delivery Charge Total**	**$1.9957**	$2,488,806	409,653
12		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
13		**Total Billing Rate**	**1,247,093**	**$6.3334**	**$7,898,340**	**Total Billing Rate**	**$6.6619**	$8,307,992	409,653
14									
15	**SVDF A--Sales Service Economic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
16		Customer Bills	5,416	$80.00	$433,306	Customer Bills	$80.00	$433,306	0
17		Total Sales	2,034,731	$6.3334	$12,886,765	Total Sales	$6.4944	$13,214,270	327,505
18		MR Revenue		$0.0000	$0	MR Revenue		$0 *	0
19		Total Revenue			$13,320,070	Total Revenue		$13,647,575	327,505
20									
21		Demand	2,034,731	$0.0000	$0	Demand	$0.0000	$0	0
22		Commodity	2,034,731	$4.6662	$9,494,461	Commodity	$4.6662	$9,494,461	0
23		**Cost of Gas**	**2,034,731**	$4.6662	**$9,494,461**	**Cost of Gas**	$4.6662	$9,494,461	0
24		Delivery Chrg B4 CCRC	2,034,731	$1.4203	$2,889,928	Delivery Chrg B4 CCRC	$1.5078	$3,067,881	177,952
25		CCRC	2,034,731	$0.2469	$502,375	CCRC	$0.3204	$651,928	149,553
26		**Delivery Charge Total**	**2,034,731**	**$1.6672**	**$3,392,303**	**Delivery Charge Total**	**$1.8282**	$3,719,808	327,505
27		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
28		**Total Billing Rate**	**2,034,731**	**$6.3334**	**$12,886,765**	**Total Billing Rate**	**$6.4944**	$13,214,270	327,505

	SVDF A--Transport		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	292	$180.00	$52,531	Customer Bills	$180.00	$52,531	0
2		Total Sales	109,635	$1.6672	$182,783	Total Sales	$1.9222	$210,738	27,955
3		MR Revenue			$0	MR Revenue		$0 *	0

4		Total Revenue			$235,314	Total Revenue		$263,269	27,955
5									
6		Demand	109,635	$0.0000	$0	Demand	$0.0000	$0	0
7		Commodity	109,635	$0.0000	$0	Commodity	$0.0000	$0	0
8		**Cost of Gas**	109,635	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0
9		Delivery Chrg B4 CCRC	109,635	$1.4203	$155,714	Delivery Chrg B4 CCRC	$1.6753	$183,669	27,955
10		CCRC	109,635	$0.2469	$27,069	CCRC	$0.2469	$27,069	0
11		**Delivery Charge Total**	109,635	**$1.6672**	**$182,783**	**Delivery Charge Total**	**$1.9222**	$210,738	27,955
12		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
13		Total Billing Rate	109,635	**$1.6672**	**$182,783**	Total Billing Rate	**$1.9222**	$210,738	27,955
14									
15	**SVDF A--Transport Econcomic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
16		Customer Bills	476	$180.00	$85,709	Customer Bills	$180.00	$85,709	0
17		Total Sales	178,877	$1.6672	$298,224	Total Sales	$1.8282	$327,016	28,792
18		MR Revenue			$0	MR Revenue		$0 *	0
19		Total Revenue			$383,933	Total Revenue		$412,725	28,792
20									
21		Demand	178,877	$0.0000	$0	Demand	$0.0000	$0	0
22		Commodity	178,877	$0.0000	$0	Commodity	$0.0000	$0	0
23		**Cost of Gas**	178,877	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0
24		Delivery Chrg B4 CCRC	178,877	$1.4203	$254,060	Delivery Chrg B4 CCRC	$1.5078	$269,704	15,644
25		CCRC	178,877	$0.2469	$44,165	CCRC	$0.3204	$57,312	13,147
26		**Delivery Charge Total**	178,877	**$1.6672**	**$298,224**	**Delivery Charge Total**	**$1.8282**	$327,016	28,792
27		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
28		Total Billing Rate	178,877	**$1.6672**	**$298,224**	Total Billing Rate	**$1.8282**	$327,016	28,792
29									
30	**SVDF A--Sales Service + Transport**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
31		Customer Bills	9,504		837,120	Customer Bills		837,120 *	0
32		Total Sales	3,570,336		21,266,111	Total Sales		22,060,016 *	793,905
33		MR Revenue			0	MR Revenue		0 *	0
34		Total Revenue			$22,103,231	Total Revenue		$22,897,136	793,905

	SVDF B--Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	657	$125.00	$82,080	Customer Bills	$125.00	$82,080	0
2		Total Sales	981,283	$6.2139	$6,097,596	Total Sales	$6.5387	$6,416,323	318,727
3		MR Revenue						$0 *	0
4		Curtailment	(77,226)	$6.2139	($479,875)	Curtailment	$6.5387	($504,958) *	(25,084)
5		Total Revenue			$5,699,801	Total Revenue		$5,993,445	293,644
6									
7		Demand	904,057	$0.0000	$0	Demand	$0.0000	$0	0
8		Commodity	904,057	$4.6662	$4,218,512	Commodity	$4.6662	$4,218,512	0
9		**Cost of Gas**	904,057	$4.6662	**$4,218,512**	**Cost of Gas**	$4.6662	$4,218,512	0
10		Delivery Chrg B4 CCRC	904,057	$1.3008	$1,175,998	Delivery Chrg B4 CCRC	$1.5521	$1,403,193	227,196
11		CCRC	904,057	$0.2469	$223,212	CCRC	$0.3204	$289,660	66,448
12		**Delivery Charge Total**	904,057	**$1.5477**	**$1,399,209**	**Delivery Charge Total**	**$1.8725**	$1,692,853	293,644
13		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
14		Total Billing Rate	904,057	**$6.2139**	**$5,617,721**	Total Billing Rate	**$6.5387**	$5,911,365	293,644
15									
16	**SVDF B--Sales Service Economic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
17		Customer Bills	1,071	$125.00	$133,920	Customer Bills	$125.00	$133,920	0
18		Total Sales	1,601,041	$6.2139	$9,948,709	Total Sales	$6.3100	$10,102,563	153,854
19		MR Revenue						$0 *	0
20		Curtailment	0	$6.2139	$0	Curtailment	$6.3100	$0 *	0
21		Total Revenue			$10,082,629	Total Revenue		$10,236,483	153,854
22									
23		Demand	1,601,041	$0.0000	$0	Demand	$0.0000	$0	0
24		Commodity	1,601,041	$4.6662	$7,470,778	Commodity	$4.6662	$7,470,778	0
25		**Cost of Gas**	1,601,041	$4.6662	**$7,470,778**	**Cost of Gas**	$4.6662	$7,470,778	0
26		Delivery Chrg B4 CCRC	1,601,041	$1.3008	$2,082,634	Delivery Chrg B4 CCRC	$1.3969	$2,236,488	153,854
27		CCRC	1,601,041	$0.2469	$395,297	CCRC	$0.2469	$395,297	0
28		**Delivery Charge Total**	1,601,041	**$1.5477**	**$2,477,931**	**Delivery Charge Total**	**$1.6438**	$2,631,785	153,854
29		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0

30		Total Billing Rate	1,601,041	**$6.2139**	**$9,948,709**	Total Billing Rate	**$6.3100**	$10,102,563		153,854
	Total SVDF B--Transport		Test-Year Units	Present Rates	Test-Year Revenues	Customer Bills	Proposed Rates	Final Revenue		Change
1		Customer Bills	123	$225.00	$27,702	Total Sales	$225.00	$27,702		0
2		Total Sales	183,991	$1.5477	$284,762	Total Revenue	$1.8725	$344,524		59,761
3		MR Revenue			$0			$0	*	0
4		Curtailment			$0			$0	*	
5		Total Revenue			$312,464			$372,226		59,761
6										
7		Demand	183,991	$0.0000	$0	Demand	$0.0000	$0		0
8		Commodity	183,991	$0.0000	$0	Commodity	$0.0000	$0		0
9		**Cost of Gas**	183,991	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
10		Delivery Chrg B4 CCRC	183,991	$1.3008	$239,335	Delivery Chrg B4 CCRC	$1.5521	$285,573		46,238
11		CCRC	183,991	$0.2469	$45,427	CCRC	$0.3204	$58,951		13,523
12		**Delivery Charge Total**	183,991	**$1.5477**	**$284,762**	**Delivery Charge Total**	**$1.8725**	$344,524		59,761
13		GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
14		**Total Billing Rate**	183,991	**$1.5477**	**$284,762**	**Total Billing Rate**	**$1.8725**	$344,524		59,761
15										
16	**Total SVDF B--Transport Economic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues	Customer Bills	Proposed Rates	Final Revenue		Change
17		Customer Bills	201	$225.00	$45,198	Total Sales	$225.00	$45,198		0
18		Total Sales	300,195	$1.5477	$464,612	Total Revenue	$1.7173	$515,524		50,912
19		MR Revenue			$0			$0	*	0
20		Curtailment			$0			$0	*	
21		Total Revenue			$509,810			$560,722		50,912
22										
23		Demand	300,195	$0.0000	$0	Demand	$0.0000	$0		0
24		Commodity	300,195	$0.0000	$0	Commodity	$0.0000	$0		0
25		**Cost of Gas**	300,195	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
26		Delivery Chrg B4 CCRC	300,195	$1.3008	$390,494	Delivery Chrg B4 CCRC	$1.3969	$419,342		28,848
27		CCRC	300,195	$0.2469	$74,118	CCRC	$0.3204	$96,183		22,064
28		**Delivery Charge Total**	300,195	**$1.5477**	**$464,612**	**Delivery Charge Total**	**$1.7173**	$515,524		50,912
29		GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
30		**Total Billing Rate**	300,195	**$1.5477**	**$464,612**	**Total Billing Rate**	**$1.7173**	$515,524		50,912
31										
32	**SVDF B--Sales Service + Transport**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
33		Customer Bills	2,052		$288,900	Customer Bills		$288,900		0
34		Total Sales	2,989,284		$16,315,804	Total Sales		$16,873,975		558,171
35		MR Revenue			$0	MR Revenue		$0		0
36		Total Revenue			$16,604,704	Total Revenue		$17,162,875		558,171
	Large General Firm Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
1		Customer Bills	300	$1,250.00	$375,000	Customer Bills	$1,550.00	$465,000		90,000
2		Total Sales	1,172,532	$5.5765	$7,790,343	Total Sales	$5.8136	$8,068,351	*	278,007
3		Demand Delivery (x 12)	8,448	$6.3303	$641,700	Demand Delivery	$6.3303	$641,703		3
4		CCRC Exempt Volumes	0			CCRC Exempt Volumes				
5		Total Revenue			$8,807,043	Total Revenue		$9,175,053		368,010
6										
7		Demand (peak x 12))	8,448	$12.3480	$1,251,717	Demand	$12.3480	$1,251,717		0
8		Commodity	1,172,532	$4.6662	$5,471,270	Commodity	$4.6662	$5,471,270		0
9		**Cost of Gas**		$4.6662	**$6,722,987**	**Cost of Gas**	$4.6662	**$6,722,987**		0
10		Delivery Chrg B4 CCRC	1,172,532	$0.6634	$777,858	Delivery Chrg B4 CCRC	$0.8270	$969,684		191,826
11		CCRC	1,172,532	$0.2469	$289,498	CCRC	$0.3204	$375,679		86,181
12		**Delivery Charge Total**		**$0.9103**	**$1,067,356**	**Delivery Charge Total**	**$1.1474**	**$1,345,364**		278,007
13		GAP	1,172,532	$0.0000	$0	GAP	$0.0000	$0		0
14		**Total Billing Rate**	1,172,532	**$5.5765**	**$7,790,343**	**Total Billing Rate**	**$5.8136**	$8,068,351		278,007
15										
16	**Large Volume Firm Transportation Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
17		Customer Bills	384	$1,350.00	$518,400	Customer Bills	$1,650.00	$633,600		115,200
18		Total Sales	2,471,033	$0.9103	$2,249,382	Total Sales	$1.1474	$2,835,264	*	585,882
19		Demand Delivery (x 12)	13,099	$6.3303	$995,076	Demand Delivery	$6.3303	$995,078		2
20		CCRC Exempt Volumes	0			CCRC Exempt Volumes				
21	**456**	Total Revenue			$3,762,858	Total Revenue		$4,463,941		701,084
22										

23		Demand (peak x 12))	13,099	$0.0000	$0	Demand	$0.0000	$0	0
24		Commodity	2,471,033	$0.0000	$0	Commodity	$0.0000	$0	0
25		**Cost of Gas**		$0.0000	**$0**	**Cost of Gas**	$0.0000	**$0**	0
26		Delivery Chrg B4 CCRC	2,471,033	$0.6634	$1,639,284	Delivery Chrg B4 CCRC	$0.8270	$2,043,545	404,261
27		CCRC	2,471,033	$0.2469	$610,098	CCRC	$0.3204	$791,719	181,621
28		**Delivery Charge Total**		**$0.9103**	**$2,249,382**	**Delivery Charge Total**	**$1.1474**	**$2,835,264**	585,882
29		GAP	2,471,033	$0.0000	$0	GAP	$0.0000	$0	0
30		**Total Billing Rate**	2,471,033	**$0.9103**	**$2,249,382**	**Total Billing Rate**	**$1.1474**	$2,835,264	585,882

1	**Large Volume Firm Transportation - MR**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
2		Customer Bills	144	$1,350.00	$194,400	Customer Bills	$1,650.00	$237,600	43,200
3		Total Sales	25,320,724		$4,031,187	Total Sales		$4,420,939 *	389,752
4		Demand Delivery	1,767,861		$8,904,236 *	Demand Delivery		$8,904,236 *	0
5		MR Adj / Min Vol			$168,910	MR Adj / Min Vol		$168,910	
6		CCRC Exempt Volumes	22,705,066			CCRC Exempt Volumes	na		0
7		Total Revenue			$13,298,733	Total Revenue		$13,731,685	432,952
8									
9		Demand (peak x 12))	1,767,861	$0.0000	$0	Demand	$0.0000	$0	0
10		Commodity	25,320,724	$0.0000	$0	Commodity	$0.0000	$0	0
11		**Cost of Gas**	25,320,724	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0
12		Delivery Chrg B4 CCRC	25,320,724	$0.1337	$3,385,381	Delivery Chrg B4 CCRC	$0.1415	$3,582,882	197,502
13		CCRC	2,615,658	$0.2469	$645,806	CCRC	$0.3204	$838,057	192,251
14		**Delivery Charge Total**	25,320,724	**$0.3806**	**$4,031,187**	**Delivery Charge Total**	**NA**	$4,420,939	389,752
15		GAP	0	**NA**	$0	GAP	$0.0000	$0	0
16		**Total Billing Rate**	25,320,724		**$4,031,187**	**Total Billing Rate**		$4,420,939	389,752
17									
18	**Total Large Volume**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
19	**Firm**	Customer Bills	828		$1,087,800	Customer Bills		$702,600 *	(385,200)
20	**(Sales+Transport)**	Total Sales	28,964,289		$14,070,912	Total Sales		$12,489,290 *	(1,581,622)
21		Demand Delivery / MR Adj			$10,709,922 *	Demand Delivery		$9,545,939 *	(1,163,983)
22		CCRC Exempt Volumes	22,705,066			CCRC Exempt Volumes			
23		Total Revenue			$25,868,634	Total Revenue		$22,737,829	(3,130,805)

	Large Volume Dual Fuel-Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	616	$1,250.00	$769,500	Customer Bills	$1,550.00	$954,180	184,680
2		Total Sales	1,828,843	$5.5765	$9,964,231	Total Sales	$5.8136	$10,394,344	430,113
3		Curtailment	(47,691)	$0.6634	($31,638)	Curtailment	$0.8270	($39,440)	(7,802)
4		Total Revenue			$10,702,093	Total Revenue		$11,309,084	606,991
5									
6		Demand	1,781,152	$0.0000	$0	Demand	$0.0000	$0	0
7		Commodity	1,781,152	$4.6662	$8,311,210	Commodity	$4.6662	$8,311,210	0
8		**Cost of Gas**	1,781,152	$4.6662	**$8,311,210**	**Cost of Gas**	$4.6662	$8,311,210	0
9		Delivery Chrg B4 CCRC	1,781,152	$0.6634	$1,181,616	Delivery Chrg B4 CCRC	$0.8270	$1,473,013	291,396
10		CCRC	1,781,152	$0.2469	$439,766	CCRC	$0.3204	$570,681	130,915
11		**Delivery Charge Total**	1,781,152	**$0.9103**	**$1,621,382**	**Delivery Charge Total**	**$1.1474**	$2,043,694	422,311
12		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
13		**Total Billing Rate**	1,781,152	**$5.5765**	**$9,932,593**	**Total Billing Rate**	**$5.8136**	$10,354,904	422,311
14									
15	**Large Volume Dual Fuel-Sales Service-Econ Curtail**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
16		Customer Bills	1,004	$1,250.00	$1,255,500	Customer Bills	$1,550.00	$1,556,820	301,320
17		Total Sales	2,983,901	$5.5765	$16,257,429	Total Sales	$5.7309	$16,712,425	454,995
18		Curtailment	(77,811)	$0.6634	($51,620)	Curtailment	$0.7443	($57,915)	(6,295)
19		Total Revenue			$17,461,309	Total Revenue		$18,211,330	750,020
20									
21		Demand	2,906,090	$0.0000	$0	Demand	$0.0000	$0	0
22		Commodity	2,906,090	$4.6662	$13,560,396	Commodity	$4.6662	$13,560,396	0
23		**Cost of Gas**	2,906,090	$4.6662	**$13,560,396**	**Cost of Gas**	$4.6662	$13,560,396	0
24		Delivery Chrg B4 CCRC	2,906,090	$0.6634	$1,927,900	Delivery Chrg B4 CCRC	$0.7443	$2,163,003	235,103
25		CCRC	2,906,090	$0.2469	$717,514	CCRC	$0.3204	$931,111	213,598
26		**Delivery Charge Total**	2,906,090	**$0.9103**	**$2,645,413**	**Delivery Charge Total**	**$1.0647**	$3,094,114	448,700
27		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
28		**Total Billing Rate**	2,906,090	**$5.5765**	**$16,205,809**	**Total Billing Rate**	**$5.7309**	$16,654,510	448,700

	Large Volume Dual Fuel--MR-Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
1		Customer Bills	108	$1,250.00	$135,000	Customer Bills	$1,550.00	$167,400		32,400
2		Total Sales	1,684,055		$9,241,882 *	Total Sales		$9,451,850	*	209,968
3		CCRC Exempt Volumes	0			CCRC Exempt Volumes				
4		MR Adj/ Minimum Volume			$81,491 *	Minimum Volume		$81,491	*	0
5		Curtailment	(32,538)	$0.6697	($21,791)	Curtailment	$0.7223	($23,502)	*	(1,711)
6		Total Revenue			$9,436,582	Total Revenue		$9,677,239		240,656
7										
8		Demand	1,651,517	$0.0000	$0	Demand	$0.0000	$0		0
9		Commodity	1,651,517	$4.6662	$7,706,311	Commodity	$4.6662	$7,706,311		0
10		**Cost of Gas**	1,651,517	$4.6662	**$7,706,311**	**Cost of Gas**	$4.6662	$7,706,311		0
11		Delivery Chrg B4 CCRC	1,651,517	$0.6697	$1,106,021	Delivery Chrg B4 CCRC	$0.7223	$1,192,891		86,870
12		CCRC	1,651,517	$0.2469	$407,760	CCRC	$0.3204	$529,146		121,387
13		**Delivery Charge Total**	1,651,517	**NA**	**$1,513,781**	**Delivery Charge Total**	**NA**	$1,722,037		208,256
14		GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
15		**Total Billing Rate**	1,651,517	**$5.5828**	**$9,220,091**	**Total Billing Rate**	**$5.7089**	$9,428,348		208,256
16										
17	**Total Large Volume**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
18	**Dual Fuel Sales**	Customer Bills	1,728	$1,250.00	$2,160,000	Customer Bills	$1,550.00	$2,678,400	*	518,400
19	**Service, incl.**	Total Sales	6,496,799		$35,463,542 *	Total Sales	$5.8136	$36,558,619	*	1,095,076
20	**Market Rate**	Minimum Volume			$81,491 *	Minimum Volume		$81,491	*	0
21		CCRC Exempt Volumes	0			CCRC Exempt Volumes				
22		Curtailment	(158,040)		($105,049) *	Curtailment	$5.8136	($120,857)	*	(15,809)
23		Total Revenue			$37,599,984	Total Revenue		$39,197,652		1,597,668

	Large Volume Dual Fuel-Transport		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
1		Customer Bills	447	$1,350.00	$603,288	Customer Bills	$1,650.00	$737,352		134,064
2		Total Sales	3,952,692	$0.9103	$3,411,281	Total Sales	$1.1474	$4,292,839		881,558
3		CCRC Exempt Volumes	664,257			CCRC Exempt Volumes				0
4		MR - Minimum Volume Adj			$0 *	Minimum Volume/Demand		$0	*	0
5		Curtailment	(92,544)	$0.6634	($61,394)	Curtailment	$0.8270	($76,534)	*	(15,140)
6		Total Revenue			$3,953,175	Total Revenue		$4,953,657		1,000,482
7										
8		Demand	3,860,147	$0.0000	$0	Demand	$0.0000	$0		0
9		Commodity	3,860,147	$0.0000	$0	Commodity	$0.0000	$0		0
10		**Cost of Gas**	3,860,147	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
11		Delivery Chrg B4 CCRC	3,860,147	$0.6634	$2,560,822	Delivery Chrg B4 CCRC	$0.8270	$3,192,342		631,520
12		CCRC	3,195,890	$0.2469	$789,065	CCRC	$0.3204	$1,023,963		234,898
13		**Delivery Charge Total**	3,860,147	**$0.9103**	**$3,349,887**	**Delivery Charge Total**	**$1.1474**	$4,216,305		866,418
14		GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
15		**Total Billing Rate**	3,860,147	**$0.9103**	**$3,349,887**	**Total Billing Rate**	**$1.1474**	**$4,216,305**		866,418
16										
17	**Large Volume Dual Fuel-Transport Econ Curtail**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
18		Customer Bills	729	$1,350.00	$984,312	Customer Bills	$1,650.00	$1,203,048		218,736
19		Total Sales	6,449,129	$0.9103	$5,565,774	Total Sales	$1.0647	$6,470,763		904,989
20		CCRC Exempt Volumes	1,083,788			CCRC Exempt Volumes				0
21		MR - Minimum Volume Adj			$0 *	Minimum Volume/Demand		$2	*	2
22		Curtailment	(150,994)	$0.6634	($100,169)	Curtailment	$0.7443	($112,385)	*	(12,215)
23		Total Revenue			$6,449,917	Total Revenue		$7,561,429		1,111,512
24										
25		Demand	6,298,135	$0.0000	$0	Demand	$0.0000	$0		0
26		Commodity	6,298,135	$0.0000	$0	Commodity	$0.0000	$0		0
27		**Cost of Gas**	6,298,135	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
28		Delivery Chrg B4 CCRC	6,298,135	$0.6634	$4,178,183	Delivery Chrg B4 CCRC	$0.7443	$4,687,702		509,519
29		CCRC	5,214,347	$0.2469	$1,287,422	CCRC	$0.3204	$1,670,677		383,255
30		**Delivery Charge Total**	6,298,135	**$0.9103**	**$5,465,605**	**Delivery Charge Total**	**$1.0647**	$6,358,379		892,774
31		GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
32		**Total Billing Rate**	6,298,135	**$0.9103**	**$5,465,605**	**Total Billing Rate**	**$1.0647**	**$6,358,379**		892,774

	Large Volume Dual Fuel- MR- Transport	Test-Year Units	Present Rates	Proposed Rates	Final Revenue	Change

1		Customer Bills	144	$1,350.00	$194,400	Customer Bills	$1,650.00	$237,600		43,200
2		Total Sales	12,509,690		$4,181,918 *	Total Sales		$4,665,135	*	483,217
3		CCRC Exempt Volumes	8,547,674			CCRC Exempt Volumes				
4		MR - Minimum Volume Adj		na	$3,502 *	Minimum Volume	na	$3,502	*	0
5		Curtailment	(212,947)	$0.2603	($55,430) *	Curtailment	$0.2769	($58,965)	*	(3,535)
6		Total Revenue			$4,324,390	Total Revenue		$4,847,272		522,883
7										
8		Demand	12,296,743	$0.0000	$0	Demand	$0.0000	$0		0
9		Commodity	12,296,743	$0.0000	$0	Commodity	$0.0000	$0		0
10		**Cost of Gas**	12,296,743	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
11		Delivery Chrg B4 CCRC	12,296,743	$0.2603	$3,200,842	Delivery Chrg B4 CCRC	$0.2769	$3,404,968		204,126
12		CCRC	3,749,069	$0.2469	$925,645	CCRC	$0.3204	$1,201,202		275,557
13		**Delivery Charge Total**	12,296,743	**NA**	**$4,126,487**	**Delivery Charge Total**	**NA**	$4,606,170		479,683
14		GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
15		**Total Billing Rate**	12,296,743	**$0.5072**	**$4,126,487**	**Total Billing Rate**	**$0.5973**	$4,606,170		479,683
16										
17	**Total Large Volume Dual Fuel Transport**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
18		Customer Bills	1,320	$1,350.00	$1,782,000	Customer Bills	$1,650.00	$2,178,000	*	396,000
19		Total Sales	22,911,511	$0.9103	$13,158,973 *	Minimum Volume	$1.1474	$15,428,738	*	2,269,765
20	**(DF Transport +**	CCRC Exempt Volumes	10,295,719			CCRC Exempt Volumes			*	0
21	**MR Transport)**	Minimum Volume/Demand			$3,502 *			$3,504	*	2
22		Curtailment	(456,485)		($216,993) *			($247,884)	*	(30,891)
23		Total Revenue			$14,727,482	Total Revenue		$17,362,358		2,634,876

	Total Company Revenue Results		Test-Year Units	Test-Year Revenues			Final Revenue		Change
1		**Customer Bills**	**11,076,098**	**$**	**132,706,475**	**Customer Bills**	**$**	**135,039,265**	**$2,332,790**
2		**Total Thruput (B4 curtail)**	**189,896,833**	**$**	**1,156,239,424**	**Total Sales**	**$**	**1,214,754,413**	**58,514,989**
3		**CCRC Exempt Volumes**	**33,000,785**			**CCRC Exempt Volumes**			
4		**Demand Delivery**		**$**	**10,541,012**		**$**	**10,541,016**	**4**
5		**Min. Vol/MR adjust**		**$**	**253,903**	**Demand Del/Min. Vol/MR**	**$**	**253,903**	**0**
6		Curtailment	**(691,751)**	**$**	**(801,917)**	Curtailment	**$**	**(873,699)**	**(71,783)**
7		**Total Revenue**	**189,205,082**	**$**	**1,298,938,897**	**Total Revenue**	**$**	**1,359,714,897**	**$60,776,000**
8									
9		Demand (Firm Sales)	125,224,464	$	167,468,900	Demand	$	167,468,900	0
10		Commodity (after curtail)	137,350,145	$	640,903,249	Commodity	$	640,903,249	0
11		**Cost of Gas**		$	808,372,149	**Cost of Gas**	$	808,372,149	0
12		Delivery Chrg B4 CCRC	189,205,082	$	308,498,517	Delivery Chrg B4 CCRC	$	355,586,442	47,087,925
13		CCRC (less exempt)	156,204,297	$	38,566,841	CCRC	$	49,922,122	11,355,281
14		**Delivery Charge Total**		$	347,065,358	**Delivery Charge Total**	$	405,508,564	58,443,206
15		GAP (Firm only)	**128,530,954**	$	-	GAP	$	-	0
16		Total Revenue		$	1,155,437,507	**Total Billing Rate**	$	1,213,880,713	58,443,206
17									
18									
19			Natural Gas Sales Service Revenue	$	1,263,351,653		$	1,319,757,470	56,405,817
20			Transport Revenue	$	35,587,244	$318,491,515.76	$	39,957,429	4,370,185
21			Total Revenue	$	1,298,938,897		$	1,359,714,899	60,776,002
22									
23			Net Margin Revenue 1/	$	490,566,748		$	551,342,748	60,776,000
24									
25			Volumetric Margin Revenue 2/	$	357,860,273		$	416,303,483	58,443,210
26									
27		1/ incl Basic, Delivery, CCRC, GAP and Demand/Min Vol							
28		2/ incl Delivery, CCRC, GAP and Demand/Min Vol. Does NOT include Basic Charge Revenue							

	Firm SALES SERVICE				
		Customer Bills	11,056,010	$126,107,915	$127,367,905	1,259,990
	(Excludes Firm Transport)	**Total FIRM Sales**	125,224,464	$1,061,735,640	$1,114,099,141	52,363,501
1		**CCRC Exempt Volumes**				
2		**Demand Margin**		$641,700	$641,703	3
3		**Curtailment**				
4		**Total Revenue**		1,188,485,255	1,242,108,748	53,623,494
5						
6		Demand		$167,468,900	$167,468,900	0

7		Commodity			$584,322,395		$584,322,395	0
8		**Cost of Gas**			$751,791,296		$751,791,296	0
9		Delivery Chrg B4 CCRC	(volumetric only)		$279,026,424		$322,185,927	43,159,503
10		CCRC			$30,917,920		$40,121,918	9,203,998
11		**Delivery Charge Total**			$309,944,344		$362,307,846	52,363,501
12		GAP	(Does not include Firm Transport)		$0		$0	0
13		Total Revenue			$1,061,735,640		$1,114,099,141	52,363,501
14								
15								
16								
17	**LARGE VOLUME SALES (FIRM + SALES + TRANS)**							
18		**Customer Bills**	3,876	$	5,029,800	$	6,192,600	1,162,800
19		**Total Large Volume Sales**	58,372,599	$	62,693,427	$	67,311,910	4,618,483
20		**CCRC Exempt Volumes**	33,000,785					0
21		**Demand Margin**		$	10,541,012	$	10,541,016	4
22		**Min Volume/ Adj**		$	253,903	$	253,903	0
23		**Curtailment**	(614,525)	$	(322,042)	$	(368,741)	(46,699)
24		**Total Revenue**		$	78,196,100	$	83,930,688	5,734,588
25								
26		Demand			$1,251,717		$1,251,717	0
27		Commodity			$35,049,187		$35,049,187	0
28		**Cost of Gas**			$36,300,904		$36,300,904	0
29		Delivery Chrg B4 CCRC	(volumetric only)		$19,957,906		$22,710,030	2,752,123
30		CCRC			$6,112,575		$7,932,235	1,819,661
31		**Delivery Charge Total**			$26,070,481		$30,642,265	4,571,784
32		GAP			$0		$0	0
33		Total Revenue			$62,371,385		$66,943,169	4,571,784

Docket No. G-008/GR-21-173
SCHEDULES SHOWING ALL BILLING DETERMINANTS
Proposed: $ 42,653,002

SCHEDULES SHOWING ALL BILLING DETERMINANTS
CALCULATION OF PRESENT AND FINAL BILLING RATE REVENUE BY CLASS

Rate Class

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
			Present Rates				Proposed Rates		Revenue Change
	Residential - Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	
1		Customer Bills	10,302,629	$9.50	$97,874,971	Customer Bills	$9.50	$97,874,971	0
2		Total Sales	76,136,576	$9.1818	$699,070,814	Total Sales	$9.3531	$712,113,009	13,042,195
3		Total Revenue			$796,945,784	Total Revenue		$809,987,980	13,042,195
4									
5		Demand	76,136,576	$1.3399	$102,015,398	Demand	$1.3399	$102,015,398	0
6		Commodity	76,136,576	$4.6662	$355,268,491	Commodity	$4.6662	$355,268,491	0
7		**Cost of Gas**	**76,136,576**	$6.0061	**$457,283,889**	**Cost of Gas**	$6.0061	$457,283,889	**0**
8	**Does not include CCRA**	Delivery Chrg B4 CCRC	76,136,576	$2.8553	$217,392,765	Delivery Chrg B4 CCRC	$2.9703	$226,148,472	8,755,706
9	**Does not include CCRA**	CCRC	76,136,576	$0.3204	$24,394,159	CCRC	$0.3407	$25,939,731	1,545,572
		NGIA	76,136,576	$0.0000	$0	NGIA	$0.0360	$2,740,917	2,740,917
10		**Delivery Charge Total**	**76,136,576**	**$3.1757**	**$241,786,924**	**Delivery Charge Total**	**$3.3470**	$254,829,120	**13,042,195**
11		GAP	76,136,576	$0.0000	$0	GAP	$0.0000	$0	0
12		**Total Billing Rate**	**76,136,576**	**$9.1818**	**$699,070,814**	**Total Billing Rate**	**$9.3531**	$712,113,009	13,042,195
13									
14	**Commercial A - Sales Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
15		Customer Bills	331,201	$17.00	$5,630,417	Customer Bills	$17.00	$5,630,417	0
16		Total Sales	2,207,473	$10.0264	$22,132,927	Total Sales	$10.2941	$22,723,979	591,052
17		Total Revenue			$27,763,344	Total Revenue		$28,354,396	591,052
18									
19		Demand	2,207,473	$1.3399	$2,957,793	Demand	$1.3399	$2,957,793	0
20		Commodity	2,207,473	$4.6662	$10,300,511	Commodity	$4.6662	$10,300,511	0
21		**Cost of Gas**	**2,207,473**	$6.0061	**$13,258,304**	**Cost of Gas**	$6.0061	$13,258,304	0
22		Delivery Chrg B4 CCRC	2,207,473	$3.6999	$8,167,349	Delivery Chrg B4 CCRC	$3.8855	$8,577,167	409,818
23		CCRC	2,207,473	$0.3204	$707,274	CCRC	$0.3407	$752,086	44,812
		NGIA	2,207,473	$0.0000	$0	NGIA	$0.0618	$136,422	136,422
24		**Delivery Charge Total**	**2,207,473**	**$4.0203**	**$8,874,623**	**Delivery Charge Total**	**$4.2880**	$9,465,675	591,052
25		GAP	2,207,473	$0.0000	$0	GAP	$0.0000	$0	0
26		**Total Billing Rate**	**2,207,473**	**$10.0264**	**$22,132,927**	**Total Billing Rate**	**$10.2941**	$22,723,979	591,052
27									
28	**Comm/Ind B - Sales Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
29		Customer Bills	254,099	$28.00	$7,114,772	Customer Bills	$28.00	$7,114,772	0
30		Total Sales	6,215,199	$8.8753	$55,161,756	Total Sales	$9.2854	$57,710,609	2,548,853
31		Total Revenue			$62,276,528	Total Revenue		$64,825,381	2,548,853
32									
33		Demand	6,215,199	$1.3399	$8,327,745	Demand	$1.3399	$8,327,745	0
34		Commodity	6,215,199	$4.6662	$29,001,362	Commodity	$4.6662	$29,001,362	0
35		**Cost of Gas**	**6,215,199**	$6.0061	**$37,329,107**	**Cost of Gas**	$6.0061	$37,329,107	0
36		Delivery Chrg B4 CCRC	6,215,199	$2.5488	$15,841,299	Delivery Chrg B4 CCRC	$2.8768	$17,879,884	2,038,585
37		CCRC	6,215,199	$0.3204	$1,991,350	CCRC	$0.3407	$2,117,518	126,169
		NGIA	6,215,199	$0.0000	$0	NGIA	$0.0618	$384,099	384,099
38		**Delivery Charge Total**	**6,215,199**	**$2.8692**	**$17,832,649**	**Delivery Charge Total**	**$3.2793**	$20,381,502	2,548,853
39		GAP	6,215,199	$0.0000	$0	GAP	$0.0000	$0	0
40		**Total Billing Rate**	**6,215,199**	**$8.8753**	**$55,161,756**	**Total Billing Rate**	**$9.2854**	$57,710,609	2,548,853
41									
1	**Comm/Ind C - Sale Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change

2	Customer Bills	268,371	$65.00	$17,444,115	Customer Bills	$65.00	$17,444,115	0
3	Total Sales	40,225,283	$8.3674	$336,581,037	Total Sales	$8.8577	$356,303,494	19,722,456
4	Total Revenue			$354,025,152	Total Revenue		$373,747,609	19,722,456
5								
6	Demand	40,225,283	$1.3399	$53,897,857	Demand	$1.3399	$53,897,857	0
7	Commodity	40,225,283	$4.6662	$187,699,218	Commodity	$4.6662	$187,699,218	0
8	**Cost of Gas**	**40,225,283**	$6.0061	**$241,597,075**	**Cost of Gas**	$6.0061	$241,597,075	0
9	Delivery Chrg B4 CCRC	40,225,283	$2.0409	$82,095,781	Delivery Chrg B4 CCRC	$2.4491	$98,515,742	16,419,961
10	CCRC	40,225,283	$0.3204	$12,888,181	CCRC	$0.3407	$13,704,754	816,573
	NGIA	40,225,283	$0.0000	$0	NGIA	$0.0618	$2,485,923	2,485,923
11	**Delivery Charge Total**	**40,225,283**	**$2.3613**	**$94,983,962**	**Delivery Charge Total**	**$2.8516**	$114,706,418	19,722,456
12	GAP	40,225,283	$0.0000	$0	GAP	$0.0000	$0	0
13	**Total Billing Rate**	**40,225,283**	**$8.3674**	**$336,581,037**	**Total Billing Rate**	**$8.8577**	$356,303,494	19,722,456
14								
15	**Comm/Ind C - Transport Service**	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
16	Customer Bills	4,956	$165.00	$817,740	Customer Bills	$165.00	$817,740	0
17	Total Sales	823,818	$2.3613	$1,945,280	Total Sales	$2.8516	$2,349,198	403,918
18	Total Revenue			$2,763,020	Total Revenue		$3,166,938	403,918
19								
20	Demand	823,818	$0.0000	$0	Demand	$0.0000	$0	0
21	Commodity	823,818	$0.0000	$0	Commodity	$0.0000	$0	0
22	**Cost of Gas**	**823,818**	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0
23	Delivery Chrg B4 CCRC	823,818	$2.0409	$1,681,329	Delivery Chrg B4 CCRC	$2.4491	$2,017,611	336,282
24	CCRC	823,818	$0.3204	$263,951	CCRC	$0.3407	$280,675	16,723
	NGIA	823,818	$0.0000	$0	NGIA	$0.0618	$50,912	50,912
25	**Delivery Charge Total**	**823,818**	**$2.3613**	**$1,945,280**	**Delivery Charge Total**	**$2.8516**	$2,349,198	403,918
26	GAP	823,818	$0.0000	$0	GAP	$0.0000	$0	0
27	**Total Billing Rate**	**823,818**	**$2.3613**	**$1,945,280**	**Total Billing Rate**	**$2.8516**	$2,349,198	403,918
28								
29	**Total Commercial / Industrial - Firm**	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
30								
31	Customer Bills	858,627		$30,189,304	Customer Bills		$31,007,044	$0
32	Total Sales	49,471,773		$413,875,719	Total Sales		$439,087,279	$23,266,279
33	Total Revenue			$444,065,023	Total Revenue		$470,094,323	$23,266,279

	SVDF A--Sales Service	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1	Customer Bills	3,320	$80.00	$265,574	Customer Bills	$80.00	$265,574	0
2	Total Sales	1,243,663	$6.6619	$8,285,142	Total Sales	$6.8441	$8,511,754	226,613
3	MR Revenue		$0.0000	$0	MR Revenue		$0 *	0
4	Total Revenue			$8,550,716	Total Revenue		$8,777,329	226,613
5								
6	Demand	1,243,663	$0.0000	$0	Demand	$0.0000	$0	0
7	Commodity	1,243,663	$4.6662	$5,803,181	Commodity	$4.6662	$5,803,181	0
8	**Cost of Gas**	**1,243,663**	$4.6662	**$5,803,181**	**Cost of Gas**	$4.6662	$5,803,181	0
9	Delivery Chrg B4 CCRC	1,243,663	$1.6753	$2,083,491	Delivery Chrg B4 CCRC	$1.7754	$2,208,000	124,508
10	CCRC	1,243,663	$0.3204	$398,470	CCRC	$0.3407	$423,716	25,246
	NGIA	1,243,663	$0.0000	$0	NGIA	$0.0618	$76,858	76,858
11	**Delivery Charge Total**	**1,243,663**	**$1.9957**	**$2,481,961**	**Delivery Charge Total**	**$2.1779**	$2,708,574	226,613
12	GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
13	**Total Billing Rate**	**1,243,663**	**$6.6619**	**$8,285,142**	**Total Billing Rate**	**$6.8441**	$8,511,754	226,613
14								
15	**SVDF A--Sales Service Economic Curtailment**	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
16	Customer Bills	5,416	$80.00	$433,306	Customer Bills	$80.00	$433,306	0
17	Total Sales	2,029,134	$6.4944	$13,177,925	Total Sales	$6.6666	$13,527,347	349,422
18	MR Revenue		$0.0000	$0	MR Revenue		$0 *	0
19	Total Revenue			$13,611,230	Total Revenue		$13,960,652	349,422
20								
21	Demand	2,029,134	$0.0000	$0	Demand	$0.0000	$0	0

22		Commodity	2,029,134	$4.6662	$9,468,347	Commodity	$4.6662	$9,468,347	0
23		**Cost of Gas**	**2,029,134**	$4.6662	**$9,468,347**	**Cost of Gas**	$4.6662	$9,468,347	0
24		Delivery Chrg B4 CCRC	2,029,134	$1.5078	$3,059,443	Delivery Chrg B4 CCRC	$1.5979	$3,242,273	182,830
25		CCRC	2,029,134	$0.3204	$650,135	CCRC	$0.3407	$691,326	41,191
		NGIA	2,029,134	$0.0000	$0	NGIA	$0.0618	$125,401	125,401
26		**Delivery Charge Total**	**2,029,134**	**$1.8282**	**$3,709,577**	**Delivery Charge Total**	**$2.0004**	$4,059,000	349,422
27		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
28		**Total Billing Rate**	**2,029,134**	**$6.4944**	**$13,177,925**	**Total Billing Rate**	**$6.6666**	$13,527,347	349,422
	SVDF A--Transport		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	292	$180.00	$52,531	Customer Bills	$180.00	$52,531	0
2		Total Sales	109,333	$1.9957	$218,194	Total Sales	$2.1779	$238,116	19,922
3		MR Revenue			$0	MR Revenue		$0 *	0
4		Total Revenue			$270,726	Total Revenue		$290,648	19,922
5									
6		Demand	109,333	$0.0000	$0	Demand	$0.0000	$0	0
7		Commodity	109,333	$0.0000	$0	Commodity	$0.0000	$0	0
8		**Cost of Gas**	109,333	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0
9		Delivery Chrg B4 CCRC	109,333	$1.6753	$183,164	Delivery Chrg B4 CCRC	$1.7754	$194,110	10,946
10		CCRC	109,333	$0.3204	$35,030	CCRC	$0.3407	$37,250	2,219
		NGIA	109,333	$0.0000	$0	NGIA	$0.0618	$6,757	6,757
11		**Delivery Charge Total**	109,333	**$1.9957**	**$218,194**	**Delivery Charge Total**	**$2.1779**	$238,116	19,922
12		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
13		Total Billing Rate	109,333	**$1.9957**	**$218,194**	Total Billing Rate	**$2.1779**	$238,116	19,922
14									
15	**SVDF A--Transport Econcomic Curtailment**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
16		Customer Bills	476	$180.00	$85,709	Customer Bills	$180.00	$85,709	0
17		Total Sales	178,385	$1.8282	$326,117	Total Sales	$2.0004	$356,835	30,718
18		MR Revenue			$0	MR Revenue		$0 *	0
19		Total Revenue			$411,825	Total Revenue		$442,544	30,718
20									
21		Demand	178,385	$0.0000	$0	Demand	$0.0000	$0	0
22		Commodity	178,385	$0.0000	$0	Commodity	$0.0000	$0	0
23		**Cost of Gas**	178,385	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0
24		Delivery Chrg B4 CCRC	178,385	$1.5078	$268,962	Delivery Chrg B4 CCRC	$1.5979	$285,035	16,073
25		CCRC	178,385	$0.3204	$57,155	CCRC	$0.3407	$60,776	3,621
		NGIA	178,385	$0.0000	$0	NGIA	$0.0618	$11,024	11,024
26		**Delivery Charge Total**	178,385	**$1.8282**	**$326,117**	**Delivery Charge Total**	**$2.0004**	$356,835	30,718
27		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
28		Total Billing Rate	178,385	**$1.8282**	**$326,117**	Total Billing Rate	**$2.0004**	$356,835	30,718
29									
30									
31	**SVDF A--Sales Service + Transport**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
32		Customer Bills	9,504		837,120	Customer Bills		837,120 *	0
33		Total Sales	3,560,516		22,007,377	Total Sales		22,634,053 *	626,676
34		MR Revenue			0	MR Revenue		0 *	0
35		Total Revenue			$22,844,497	Total Revenue		$23,471,173	626,676
	SVDF B--Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	657	$125.00	$82,080	Customer Bills	$155.00	$101,779	19,699
2		Total Sales	989,190	$6.5387	$6,468,022	Total Sales	$6.6802	$6,608,012	139,990
3		MR Revenue						$0 *	0
4		Curtailment	(29,346)	$6.5387	($191,884)	Curtailment	$6.6802	($196,037) *	(4,153)
5		Total Revenue			$6,358,218	Total Revenue		$6,513,754	155,536
6									
7		Demand	959,844	$0.0000	$0	Demand	$0.0000	$0	0
8		Commodity	959,844	$4.6662	$4,478,824	Commodity	$4.6662	$4,478,824	0
9		**Cost of Gas**	959,844	$4.6662	**$4,478,824**	**Cost of Gas**	$4.6662	$4,478,824	0
10		Delivery Chrg B4 CCRC	959,844	$1.5521	$1,489,780	Delivery Chrg B4 CCRC	$1.6115	$1,546,814	57,034
11		CCRC	959,844	$0.3204	$307,534	CCRC	$0.3407	$327,019	19,485

	NGIA	959,844	$0.0000	$0	NGIA	$0.0618	$59,318		59,318
12	**Delivery Charge Total**	959,844	**$1.8725**	**$1,797,314**	**Delivery Charge Total**	**$2.0140**	$1,933,151		135,837
13	GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
14	Total Billing Rate	959,844	**$6.5387**	**$6,276,138**	Total Billing Rate	**$6.6802**	$6,411,975		135,837
15									
16	**SVDF B--Sales Service Economic Curtailment**	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
17	Customer Bills	1,071	$125.00	$133,920	Customer Bills	$155.00	$166,061		32,141
18	Total Sales	1,613,941	$6.3835	$10,302,587	Total Sales	$6.5191	$10,521,402		218,815
19	MR Revenue						$0	*	0
20	Curtailment	(47,880)	$6.3835	($305,643)	Curtailment	$6.5191	($312,134)	*	(6,491)
21	Total Revenue			$10,130,865	Total Revenue		$10,375,329		244,464
22									
23	Demand	1,566,061	$0.0000	$0	Demand	$0.0000	$0		0
24	Commodity	1,566,061	$4.6662	$7,307,554	Commodity	$4.6662	$7,307,554		0
25	**Cost of Gas**	1,566,061	$4.6662	**$7,307,554**	**Cost of Gas**	$4.6662	$7,307,554		0
26	Delivery Chrg B4 CCRC	1,566,061	$1.3969	$2,187,625	Delivery Chrg B4 CCRC	$1.4504	$2,271,374		83,749
27	CCRC	1,566,061	$0.3204	$501,766	CCRC	$0.3407	$533,557		31,791
	NGIA	1,566,061	$0.0000	$0	NGIA	$0.0618	$96,783		96,783
28	**Delivery Charge Total**	1,566,061	**$1.7173**	**$2,689,391**	**Delivery Charge Total**	**$1.8529**	$2,901,714		212,323
29	GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
30	Total Billing Rate	1,566,061	**$6.3835**	**$9,996,945**	Total Billing Rate	**$6.5191**	$10,209,268		212,323

	Total SVDF B--Transport	Test-Year Units	Present Rates	Test-Year Revenues	Customer Bills	Proposed Rates	Final Revenue		Change
1	Customer Bills	123	$225.00	$27,702	Total Sales	$255.00	$31,396		3,694
2	Total Sales	185,473	$1.8725	$347,300	Total Revenue	$2.0140	$373,548		26,248
3	MR Revenue			$0			$0	*	0
4	Curtailment			$0			$0	*	
5	Total Revenue			$375,002			$404,943		29,942
6									
7	Demand	185,473	$0.0000	$0	Demand	$0.0000	$0		0
8	Commodity	185,473	$0.0000	$0	Commodity	$0.0000	$0		0
9	**Cost of Gas**	185,473	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
10	Delivery Chrg B4 CCRC	185,473	$1.5521	$287,874	Delivery Chrg B4 CCRC	$1.6115	$298,895		11,021
11	CCRC	185,473	$0.3204	$59,426	CCRC	$0.3407	$63,191		3,765
	NGIA	185,473	$0.0000	$0	NGIA	$0.0618	$11,462		11,462
12	**Delivery Charge Total**	185,473	**$1.8725**	**$347,300**	**Delivery Charge Total**	**$2.0140**	$373,548		26,248
13	GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
14	**Total Billing Rate**	185,473	**$1.8725**	**$347,300**	**Total Billing Rate**	**$2.0140**	$373,548		26,248
15									
16	**Total SVDF B--Transport Economic Curtailment**	Test-Year Units	Present Rates	Test-Year Revenues	Customer Bills	Proposed Rates	Final Revenue		Change
17	Customer Bills	201	$225.00	$45,198	Total Sales	$255.00	$51,224		6,026
18	Total Sales	302,614	$1.7173	$519,678	Total Revenue	$1.8529	$560,706		41,028
19	MR Revenue			$0			$0	*	0
20	Curtailment			$0			$0	*	
21	Total Revenue			$564,876			$611,930		47,054
22									
23	Demand	302,614	$0.0000	$0	Demand	$0.0000	$0		0
24	Commodity	302,614	$0.0000	$0	Commodity	$0.0000	$0		0
25	**Cost of Gas**	302,614	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
26	Delivery Chrg B4 CCRC	302,614	$1.3969	$422,720	Delivery Chrg B4 CCRC	$1.4504	$438,903		16,183
27	CCRC	302,614	$0.3204	$96,958	CCRC	$0.3407	$103,101		6,143
	NGIA	302,614	$0.0000	$0	NGIA	$0.0618	$18,702		18,702
28	**Delivery Charge Total**	302,614	**$1.7173**	**$519,678**	**Delivery Charge Total**	**$1.8529**	$560,706		41,028
29	GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
30	**Total Billing Rate**	302,614	**$1.7173**	**$519,678**	**Total Billing Rate**	**$1.8529**	$560,706		41,028
31									
32	**SVDF B--Sales Service + Transport**	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
33	Customer Bills	2,052		$288,900	Customer Bills		$350,460		61,560
34	Total Sales	3,013,992		$17,140,060	Total Sales		$17,555,496		415,436

35		MR Revenue			$0	MR Revenue		$0	0
36		Total Revenue			$17,428,960	Total Revenue		$17,905,956	476,996
	Large General Firm Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	300	$1,550.00	$465,000	Customer Bills	$1,550.00	$465,000	0
2		Total Sales	1,175,316	$5.8136	$8,084,536	Total Sales	$6.0675	$8,382,949 *	298,413
3		Demand Delivery (x 12)	8,448	$6.3303	$641,700	Demand Delivery	$6.3303	$641,703	3
4		CCRC Exempt Volumes	0			CCRC Exempt Volumes			
5		Total Revenue			$9,191,236	Total Revenue		$9,489,652	298,415
6									
7		Demand (peak x 12))	8,448	$12.3480	$1,251,717	Demand	$12.3480	$1,251,717	0
8		Commodity	1,175,316	$4.6662	$5,484,262	Commodity	$4.6662	$5,484,262	0
9		**Cost of Gas**		$4.6662	**$6,735,978**	**Cost of Gas**	$4.6662	**$6,735,978**	0
10		Delivery Chrg B4 CCRC	1,175,316	$0.8270	$971,987	Delivery Chrg B4 CCRC	$0.9988	$1,173,906	201,919
11		CCRC	1,175,316	$0.3204	$376,571	CCRC	$0.3407	$400,430	23,859
		NGIA	1,175,316	$0.0000	$0	NGIA	$0.0618	$72,635	72,635
12		**Delivery Charge Total**		**$1.1474**	**$1,348,558**	**Delivery Charge Total**	**$1.4013**	**$1,646,971**	298,413
13		GAP	1,175,316	$0.0000	$0	GAP	$0.0000	$0	0
14		**Total Billing Rate**	1,175,316	**$5.8136**	**$8,084,536**	**Total Billing Rate**	**$6.0675**	$8,382,949	298,413
15									
16	**Large Volume Firm Transportation Service**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
17		Customer Bills	384	$1,650.00	$633,600	Customer Bills	$1,650.00	$633,600	0
18		Total Sales	2,471,033	$1.1474	$2,835,264	Total Sales	$1.4013	$3,462,659 *	627,395
19		Demand Delivery (x 12)	13,099	$6.3303	$995,076	Demand Delivery	$6.3303	$995,078	2
20		CCRC Exempt Volumes	0			CCRC Exempt Volumes			
21	**456**	Total Revenue			$4,463,940	Total Revenue		$5,091,337	627,397
22									
23		Demand (peak x 12))	13,099	$0.0000	$0	Demand	$0.0000	$0	0
24		Commodity	2,471,033	$0.0000	$0	Commodity	$0.0000	$0	0
25		**Cost of Gas**		$0.0000	**$0**	**Cost of Gas**	$0.0000	**$0**	0
26		Delivery Chrg B4 CCRC	2,471,033	$0.8270	$2,043,545	Delivery Chrg B4 CCRC	$0.9988	$2,468,068	424,524
27		CCRC	2,471,033	$0.3204	$791,719	CCRC	$0.3407	$841,881	50,162
		NGIA	2,471,033	$0.0000	$0	NGIA	$0.0618	$152,710	152,710
28		**Delivery Charge Total**		**$1.1474**	**$2,835,264**	**Delivery Charge Total**	**$1.4013**	**$3,462,659**	627,395
29		GAP	2,471,033	$0.0000	$0	GAP	$0.0000	$0	0
30		**Total Billing Rate**	2,471,033	**$1.1474**	**$2,835,264**	**Total Billing Rate**	**$1.4013**	$3,462,659	627,395
1	**Large Volume Firm Transportation - MR**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
2		Customer Bills	144	$1,650.00	$237,600	Customer Bills	$1,650.00	$237,600	0
3		Total Sales	25,328,869		$4,424,701	Total Sales		$4,695,839 *	271,138
4		Demand Delivery	1,767,861		$8,904,236 *	Demand Delivery		$8,904,236 *	0
5		MR Adj / Min Vol			$182,057	MR Adj / Min Vol		$182,057	
6		CCRC Exempt Volumes	22,705,066			CCRC Exempt Volumes	na		0
7		Total Revenue			$13,748,594	Total Revenue		$14,019,732	271,138
8									
9		Demand (peak x 12))	1,767,861	$0.0000	$0	Demand	$0.0000	$0	0
10		Commodity	25,328,869	$0.0000	$0	Commodity	$0.0000	$0	0
11		**Cost of Gas**	25,328,869	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0	0
12		Delivery Chrg B4 CCRC	25,328,869	$0.1415	$3,584,035	Delivery Chrg B4 CCRC	$0.1437	$3,639,758	55,724
13		CCRC	2,623,802	$0.3204	$840,666	CCRC	$0.3407	$893,929	53,263
		NGIA	2,623,802	$0.0000	$0	NGIA	$0.0618	$162,151	
14		**Delivery Charge Total**	25,328,869	**NA**	**$4,424,701**	**Delivery Charge Total**	**NA**	$4,695,839	271,138
15		GAP	0	**$0.0000**	$0	GAP	$0.0000	$0	0
16		**Total Billing Rate**	25,328,869		**$4,424,701**	**Total Billing Rate**		$4,695,839	271,138
17									
18	**Total Large Volume**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
19	**Firm**	Customer Bills	828		$1,336,200	Customer Bills		$702,600 *	(633,600)
20	**(Sales+Transport)**	Total Sales	28,975,218		$15,344,501	Total Sales		$13,078,788 *	(2,265,713)
21		Demand Delivery / MR Adj			$10,723,069 *	Demand Delivery		$9,545,939 *	(1,177,130)
22		CCRC Exempt Volumes	22,705,066			CCRC Exempt Volumes			

23		Total Revenue			$27,403,770	Total Revenue		$23,327,327	(4,076,444)
	Large Volume Dual Fuel-Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	616	$1,550.00	$954,180	Customer Bills	$1,550.00	$954,180	0
2		Total Sales	1,838,068	$5.8136	$10,447,975	Total Sales	$6.0675	$10,910,745	462,770
3		Curtailment	(47,691)	$0.8270	($39,440)	Curtailment	$0.9988	($47,634)	(8,193)
4		Total Revenue			$11,362,715	Total Revenue		$11,817,291	454,577
5									
6		Demand	1,790,377	$0.0000	$0	Demand	$0.0000	$0	0
7		Commodity	1,790,377	$4.6662	$8,354,256	Commodity	$4.6662	$8,354,256	0
8		**Cost of Gas**	1,790,377	$4.6662	**$8,354,256**	**Cost of Gas**	$4.6662	$8,354,256	0
9		Delivery Chrg B4 CCRC	1,790,377	$0.8270	$1,480,642	Delivery Chrg B4 CCRC	$0.9988	$1,788,228	307,587
10		CCRC	1,790,377	$0.3204	$573,637	CCRC	$0.3407	$609,981	36,345
		NGIA	1,790,377	$0.0000	$0	NGIA	$0.0618	$110,645	110,645
11		**Delivery Charge Total**	1,790,377	**$1.1474**	**$2,054,278**	**Delivery Charge Total**	**$1.4013**	$2,508,855	454,577
12		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
13		**Total Billing Rate**	1,790,377	**$5.8136**	**$10,408,535**	**Total Billing Rate**	**$6.0675**	$10,863,111	454,577
14									
15	**Large Volume Dual Fuel-Sales Service-Econ Curtail**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
16		Customer Bills	1,004	$1,550.00	$1,556,820	Customer Bills	$1,550.00	$1,556,820	0
17		Total Sales	2,998,952	$5.7309	$16,798,682	Total Sales	$5.9676	$17,502,206	703,524
18		Curtailment	(77,811)	$0.7443	($57,915)	Curtailment	$0.8989	($69,946)	(12,031)
19		Total Revenue			$18,297,588	Total Revenue		$18,989,080	691,493
20									
21		Demand	2,921,141	$0.0000	$0	Demand	$0.0000	$0	0
22		Commodity	2,921,141	$4.6662	$13,630,629	Commodity	$4.6662	$13,630,629	0
23		**Cost of Gas**	2,921,141	$4.6662	**$13,630,629**	**Cost of Gas**	$4.6662	$13,630,629	0
24		Delivery Chrg B4 CCRC	2,921,141	$0.7443	$2,174,205	Delivery Chrg B4 CCRC	$0.8989	$2,625,872	451,667
25		CCRC	2,921,141	$0.3204	$935,934	CCRC	$0.3407	$995,233	59,299
		NGIA	2,921,141	$0.0000	$0	NGIA	$0.0618	$180,527	180,527
26		**Delivery Charge Total**	2,921,141	**$1.0647**	**$3,110,139**	**Delivery Charge Total**	**$1.3014**	$3,801,631	691,493
27		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
28		**Total Billing Rate**	2,921,141	**$5.7309**	**$16,740,768**	**Total Billing Rate**	**$5.9676**	$17,432,260	691,493
	Large Volume Dual Fuel--MR-Sales Service		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
1		Customer Bills	108	$1,550.00	$167,400	Customer Bills	$1,550.00	$167,400	0
2		Total Sales	1,737,398		$9,664,990 *	Total Sales		$9,916,326 *	251,336
3		CCRC Exempt Volumes	0			CCRC Exempt Volumes			
4		MR Adj/ Minimum Volume			$81,491 *	Minimum Volume		$81,491 *	0
5		Curtailment	(32,538)	$0.6697	($21,791)	Curtailment	$0.7338	($23,876) *	(2,086)
6		Total Revenue			$9,892,090	Total Revenue		$10,141,341	249,251
7									
8		Demand	1,704,860	$0.0000	$0	Demand	$0.0000	$0	0
9		Commodity	1,704,860	$4.6662	$7,955,217	Commodity	$4.6662	$7,955,217	0
10		**Cost of Gas**	1,704,860	$4.6662	**$7,955,217**	**Cost of Gas**	$4.6662	$7,955,217	0
11		Delivery Chrg B4 CCRC	1,704,860	$0.6697	$1,141,745	Delivery Chrg B4 CCRC	$0.7338	$1,251,026	109,282
12		CCRC	1,704,860	$0.3204	$546,237	CCRC	$0.3407	$580,846	34,609
		NGIA	1,704,860	$0.0000	$0	NGIA	$0.0618	$105,360	105,360
13		**Delivery Charge Total**	1,704,860	**NA**	**$1,687,982**	**Delivery Charge Total**	**NA**	$1,937,232	249,251
14		GAP	0	$0.0000	$0	GAP	$0.0000	$0	0
15		**Total Billing Rate**	1,704,860	**$5.6563**	**$9,643,199**	**Total Billing Rate**	**$5.7407**	$9,892,450	249,251
16									
17	**Total Large Volume**		Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue	Change
18	**Dual Fuel Sales**	Customer Bills	724	$1,550.00	$1,121,580	Customer Bills	$1,550.00	$1,121,580 *	0
19	**Service, incl.**	Total Sales	3,575,466		$20,112,965 *	Total Sales	$6.0675	$20,827,071 *	714,106
20	**Market Rate**	Minimum Volume			$81,491 *	Minimum Volume		$81,491 *	0
21		CCRC Exempt Volumes	0			CCRC Exempt Volumes			
22		Curtailment	(80,229)		($61,231) *	Curtailment	$6.0675	($71,510) *	(10,279)
23		Total Revenue			$21,254,805	Total Revenue		$21,958,632	703,827

	Large Volume Dual Fuel-Transport	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
1	Customer Bills	447	$1,650.00	$737,352	Customer Bills	$1,650.00	$737,352		0
2	Total Sales	3,956,202	$1.1474	$4,296,867	Total Sales	$1.4013	$5,239,214		942,346
3	CCRC Exempt Volumes	664,257			CCRC Exempt Volumes				0
4	MR - Minimum Volume Adj			$0 *	Minimum Volume/Demand		$0	*	0
5	Curtailment	(92,544)	$0.8270	($76,534)	Curtailment	$0.9988	($92,433)	*	(15,899)
6	Total Revenue			$4,957,685	Total Revenue		$5,884,132		926,447
7									
8	Demand	3,863,658	$0.0000	$0	Demand	$0.0000	$0		0
9	Commodity	3,863,658	$0.0000	$0	Commodity	$0.0000	$0		0
10	**Cost of Gas**	3,863,658	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
11	Delivery Chrg B4 CCRC	3,863,658	$0.8270	$3,195,245	Delivery Chrg B4 CCRC	$0.9988	$3,859,021		663,776
12	CCRC	3,199,401	$0.3204	$1,025,088	CCRC	$0.3407	$1,090,036		64,948
	NGIA	3,199,401	$0.0000	$0	NGIA	$0.0618	$197,723		197,723
13	**Delivery Charge Total**	3,863,658	**$1.1474**	**$4,220,333**	**Delivery Charge Total**	**$1.4013**	$5,146,780		926,447
14	GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
15	**Total Billing Rate**	3,863,658	**$1.1474**	**$4,220,333**	**Total Billing Rate**	**$1.4013**	**$5,146,780**		926,447
16									
17	**Large Volume Dual Fuel-Transport Econ Curtail**	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
18	Customer Bills	729	$1,650.00	$1,203,048	Customer Bills	$1,650.00	$1,203,048		0
19	Total Sales	6,454,856	$1.0647	$6,476,861	Total Sales	$1.3014	$7,903,479		1,426,618
20	CCRC Exempt Volumes	1,083,788			CCRC Exempt Volumes				0
21	MR - Minimum Volume Adj			$0 *	Minimum Volume/Demand		$2	*	2
22	Curtailment	(150,994)	$0.7443	($112,385)	Curtailment	$0.8989	($135,731)	*	(23,347)
23	Total Revenue			$7,567,525	Total Revenue		$8,970,799		1,403,274
24									
25	Demand	6,303,863	$0.0000	$0	Demand	$0.0000	$0		0
26	Commodity	6,303,863	$0.0000	$0	Commodity	$0.0000	$0		0
27	**Cost of Gas**	6,303,863	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
28	Delivery Chrg B4 CCRC	6,303,863	$0.7443	$4,691,965	Delivery Chrg B4 CCRC	$0.8989	$5,666,668		974,703
29	CCRC	5,220,075	$0.3204	$1,672,512	CCRC	$0.3407	$1,778,479		105,968
	NGIA	5,220,075	$0.0000	$0	NGIA	$0.0618	$322,601		322,601
30	**Delivery Charge Total**	6,303,863	**$1.0647**	**$6,364,477**	**Delivery Charge Total**	**$1.3014**	$7,767,748		1,403,271
31	GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
32	**Total Billing Rate**	6,303,863	**$1.0647**	**$6,364,477**	**Total Billing Rate**	**$1.3014**	**$7,767,748**		1,403,271

	Large Volume Dual Fuel- MR- Transport	Test-Year Units	Present Rates			Proposed Rates	Final Revenue		Change
1	Customer Bills	144	$1,650.00	$237,600	Customer Bills	$1,650.00	$237,600		0
2	Total Sales	12,509,690		$4,665,135 *	Total Sales		$4,983,383	*	318,248
3	CCRC Exempt Volumes	8,547,674			CCRC Exempt Volumes				
4	MR - Minimum Volume Adj		na	$3,502 *	Minimum Volume	na	$3,502	*	0
5	Curtailment	(212,947)	$0.2769	($58,965) *	Curtailment	$0.2740	($58,347)	*	618
6	Total Revenue			$4,847,272	Total Revenue		$5,166,138		318,866
7									
8	Demand	12,296,743	$0.0000	$0	Demand	$0.0000	$0		0
9	Commodity	12,296,743	$0.0000	$0	Commodity	$0.0000	$0		0
10	**Cost of Gas**	12,296,743	$0.0000	**$0**	**Cost of Gas**	$0.0000	$0		0
11	Delivery Chrg B4 CCRC	12,296,743	$0.2769	$3,404,968	Delivery Chrg B4 CCRC	$0.2778	$3,416,035		11,067
12	CCRC	3,749,069	$0.3204	$1,201,202	CCRC	$0.3407	$1,277,308		76,106
	NGIA	3,749,069	$0.0000	$0	NGIA	$0.0618	$231,692		231,692
13	**Delivery Charge Total**	12,296,743	**NA**	**$4,606,170**	**Delivery Charge Total**	**NA**	$4,925,036		318,866
14	GAP	0	$0.0000	$0	GAP	$0.0000	$0		0
15	**Total Billing Rate**	12,296,743	**$0.5973**	**$4,606,170**	**Total Billing Rate**	**$0.6185**	$4,925,036		318,866
16									
17	**Total Large Volume Dual Fuel Transport**	Test-Year Units	Present Rates	Test-Year Revenues		Proposed Rates	Final Revenue		Change
18	Customer Bills	1,320	$1,650.00	$2,178,000	Customer Bills	$1,650.00	$2,178,000	*	0
19	Total Sales	22,920,749	$1.1474	$15,438,864 *	Minimum Volume	$1.4013	$18,126,076	*	2,687,212
20	**(DF Transport +** CCRC Exempt Volumes	10,295,719			CCRC Exempt Volumes			*	0

21	**MR Transport)**	Minimum Volume/Demand		$3,502 *			$3,504 *	2
22		Curtailment	(456,485)	($247,884) *			($286,512) *	(38,628)
23		Total Revenue		$17,372,482	Total Revenue		$20,021,069	2,648,586

	Total Company Revenue Results		Test-Year Units	Test-Year Revenues			Final Revenue	Change
1		**Customer Bills**	**11,176,688**	**$ 136,200,635**	**Customer Bills**		**$ 136,262,195**	**$61,560**
2		**Total Thruput (B4 curtail)**	**190,730,468**	**$ 1,222,231,789**	**Total Sales**		**$ 1,264,894,808**	**42,663,019**
3		**CCRC Exempt Volumes**	**33,000,785**		**CCRC Exempt Volumes**			
4		**Demand Delivery**		**$ 10,541,012**			**$ 10,541,016**	**4**
5		**Min. Vol/MR adjust**		**$ 267,050**	**Demand Del/Min. Vol/MR**		**$ 267,050**	**0**
6		Curtailment	**(691,751)**	**$ (864,556)**	Curtailment		**$ (936,139)**	**(71,583)**
7		**Total Revenue**	**190,038,717**	**$ 1,368,375,930**	**Total Revenue**		**$ 1,411,028,930**	**$42,653,000**
8								
9		Demand (Firm Sales)	125,959,848	$ 168,450,511	Demand		$ 168,450,511	0
10		Commodity (after curtail)	138,174,928	$ 644,751,850	Commodity		$ 644,751,850	0
11		**Cost of Gas**		$ 813,202,361	**Cost of Gas**		$ 813,202,361	0
12		Delivery Chrg B4 CCRC	190,038,717	$ 357,849,919	Delivery Chrg B4 CCRC		$ 389,512,864	31,662,945
13		CCRC (less exempt)	157,037,932	$ 50,314,953	CCRC		$ 53,502,823	3,187,870
		NGIA (less exempt)	157,037,932	$ -	NGIA		$ 7,740,621	7,740,621
14		**Delivery Charge Total**		$ 408,164,872	**Delivery Charge Total**		$ 450,756,308	42,591,436
15		GAP (Firm only)	**129,254,699**	$ -	GAP		$ -	0
16		Total Revenue		$ 1,221,367,233	**Total Billing Rate**		$ 1,263,958,669	42,591,436
17								
18								
19			Natural Gas Sales Service Revenue	$1,328,405,465			$1,366,979,792	38,574,327
20			Transport Revenue	$39,970,465			$44,049,140	4,078,675
21			Total Revenue	$1,368,375,930			$1,411,028,932	42,653,002
22								
23			Net Margin Revenue 1/	$ 555,173,569	-$1,494,125		$ 597,826,569	42,653,000
24								
25			Volumetric Margin Revenue 2/	$418,972,934			$461,564,374	42,591,440
26								
27		1/ incl Basic, Delivery, CCRC, GAP and Demand/Min Vol						
28		2/ incl Delivery, CCRC, GAP and Demand/Min Vol. Does NOT include Basic Charge Revenue						

	Firm SALES SERVICE							
		Customer Bills	11,156,600	$128,529,275			$128,529,275	0
	(Excludes Firm Transpo	**Total FIRM Sales**	125,959,848	$1,121,031,069			$1,157,234,039	36,202,970
1		**CCRC Exempt Volumes**						
2		**Demand Margin**		$641,700			$641,703	3
3		**Curtailment**						
4		**Total Revenue**		1,250,202,044			1,286,405,016	36,202,972
5								
6		Demand		$168,450,511			$168,450,511	0
7		Commodity		$587,753,842			$587,753,842	0
8		**Cost of Gas**		$756,204,353			$756,204,353	0
9		Delivery Chrg B4 CCRC	(volumetric only)	$324,469,181			$352,295,171	27,825,990
10		CCRC		$40,357,535			$42,914,520	2,556,985
11		NGIA		$0			$5,819,995	
12		**Delivery Charge Total**		$364,826,716			$401,029,686	36,202,970
13		GAP	(Does not include Firm Transport)	$0			$0	0
14		Total Revenue		$1,121,031,069			$1,157,234,039	36,202,970
15								
16								
17								
18	**LARGE VOLUME SALES (FIRM + SALES + TRANS)**							
19		**Customer Bills**	3,876	$ 6,192,600			$ 6,192,600	0
20		**Total Large Volume Sales**	58,470,385	$ 67,695,012			$ 72,996,800	5,301,788
21		**CCRC Exempt Volumes**	33,000,785					0
22		**Demand Margin**		$ 10,541,012			$ 10,541,016	4

23	**Min Volume/ Adj**		$	267,050	$	267,050	0
24	**Curtailment**	(614,525)	$	(367,030)	$	(427,968)	(60,938)
25	**Total Revenue**		$	84,328,645	$	89,569,499	5,240,854
26							
27	Demand			$1,251,717		$1,251,717	0
28	Commodity			$35,424,364		$35,424,364	0
29	**Cost of Gas**			$36,676,081		$36,676,081	0
30	Delivery Chrg B4 CCRC	(volumetric only)		$22,688,336		$25,888,584	3,200,248
31	CCRC			$7,963,566		$8,468,124	504,558
32	NGIA			$0		$1,536,044	
33	**Delivery Charge Total**			$30,651,902		$35,892,752	5,240,850
34	GAP			$0		$0	0
35	Total Revenue			$67,327,983		$72,568,832	5,240,850

DEMAND CHARGES

Summary Tabs - LV File -	1/1/2024	2/1/2024	3/1/2024	4/1/2024	5/1/2024	6/1/2024	7/1/2024	8/1/2024	9/1/2024	10/1/2024	11/1/2024	12/1/2024	Total 2024 (Dts)
LVF-Sales-Standard Rate	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 504,000
LVF-Sales-Market Rate NOT IN 2023 RC	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LV_F/I-Sales -Standard Rate	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 137,700
LVF-Transport-Standard Rate	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 796,740
LVF-Transport-Market Rate	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 8,767,391
LV_F/I-Transport-Standard Rate	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 198,336
LV_F/I-Transport-Market Rate	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 136,845
Demand Charges	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$10,541,012

DISTRIBUTION CHARGE ADJUSTMENTS Adjustments to Distribution Charges - Minimum Volume Requirements; Block Rate Adjustments; Demand Charge True-Ups

TRANSPORTATION TOTAL	1/1/2024	2/1/2024	3/1/2024	4/1/2024	5/1/2024	6/1/2024	7/1/2024	8/1/2024	9/1/2024	10/1/2024	11/1/2024	12/1/2024	Total 2024 (Dts)
LVDF - MR - SALES	$63,220	$0	$0	$0	$0	$0	$0	$0	$0	$18,271	$0	$0	$81,491
LVF-MR-Transport							$138,044						$138,044
LVDF _STD Transport	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
LVDF _MR Transport	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,502	$3,502
LV_F/I-Transport-Market Rate	$0	$30,866	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$30,866
TOTAL	$63,220	$30,866	$0	$0	$0	$0	$138,044	$0	$0	$18,271	$0	$3,502	$253,903
COMPANY 0072 TOTAL	$63,220	$30,866	$0	$0	$0	$0	$138,044	$0	$0	$18,271	$0	$3,502	$253,903
												Total Adjustments	$10,794,915

Supplied Meter Rider Revenue	May 2021 Enrolled *	
customers	694	
charge per month	$ 18.00	per data sent by Lukas V.
total annual (x 12)	$ 149,904	
add 15%	$ 172,390	
* Count by Class		
Large Firm - Sales	11	
Sm Firm/Interruptible (A)- Sales	19	
Sm Firm/Interruptible (B)- Sales	1	
LG Firm/Interruptible- Sales	1	
SVDF - Sys - A - Sales	268	
SVDF - Sys - B - Sales	53	
LVDF - Sys - Sales	50	
Sales	403	
Sm Firm/Interruptible (A)- Transport	172	
Sm Firm/Interruptible (A)- Trans	1	
LG Firm/Interruptible - Trans	3	
SVDF - Sys - A - Transport	43	
SVDF - Sys - B - Transport	11	
Large Firm - Transport	16	
LVDF - Sys - Transport	45	
Transport	291	
Total	694	

Not Relevant 2023 Rate Case

DEMAND CHARGES

Summary Tabs - LV File -	1/1/2025	2/1/2025	3/1/2025	4/1/2025	5/1/2025	6/1/2025	7/1/2025	8/1/2025	9/1/2025	10/1/2025	11/1/2025	12/1/2025	Total 2025 (Dts)
LVF-Sales-Standard Rate	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 42,000	$ 504,000
LVF-Sales-Market Rate NOT IN 2023 RC	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LV_F/I-Sales -Standard Rate	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 11,475	$ 137,700
LVF-Transport-Standard Rate	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 66,395	$ 796,740
LVF-Transport-Market Rate	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 730,616	$ 8,767,391
LV_F/I-Transport-Standard Rate	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 16,528	$ 198,336
LV_F/I-Transport-Market Rate	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 11,404	$ 136,845
Demand Charges	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$878,418	$10,541,012

DISTRIBUTION CHARGE ADJUSTMENTS Adjustments to Distribution Charges - Minimum Volume Requirements; Block Rate Adjustments; Demand Charge True-Ups

TRANSPORTATION TOTAL	1/1/2025	2/1/2025	3/1/2025	4/1/2025	5/1/2025	6/1/2025	7/1/2025	8/1/2025	9/1/2025	10/1/2025	11/1/2025	12/1/2025	Total 2025 (Dts)
LVDF - MR - SALES	$63,220	$0	$0	$0	$0	$0	$0	$0	$0	$18,271	$0	$0	$81,491
LVF-MR-Transport							$151,191						$151,191
LVDF _STD Transport	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
LVDF _MR Transport	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,502	$3,502
LV_F/I-Transport-Market Rate	$0	$30,866	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$30,866
TOTAL	$63,220	$30,866	$0	$0	$0	$0	$151,191	$0	$0	$18,271	$0	$3,502	$267,050
COMPANY 0072 TOTAL	$63,220	$30,866	$0	$0	$0	$0	$151,191	$0	$0	$18,271	$0	$3,502	$267,050
												Total Adjustments	$10,808,062
													10808102
													$40

Supplied Meter Rider Revenue	May 2021 Enrolled *	
customers	694	
charge per month	$ 18.00	per data sent by Lukas V.
total annual (x 12)	$ 149,904	
add 15%	$ 172,390	
* Count by Class		
Large Firm - Sales	11	
Sm Firm/Interruptible (A)- Sales	19	
Sm Firm/Interruptible (B)- Sales	1	
LG Firm/Interruptible- Sales	1	
SVDF - Sys - A - Sales	268	
SVDF - Sys - B - Sales	53	
LVDF - Sys - Sales	50	
Sales	403	
Sm Firm/Interruptible (A)- Transport	172	
Sm Firm/Interruptible (A)- Trans	1	
LG Firm/Interruptible - Trans	3	
SVDF - Sys - A - Transport	43	
SVDF - Sys - B - Transport	11	
Large Firm - Transport	16	
LVDF - Sys - Transport	45	
Transport	291	
Total	694	

Not Relevant 2023 Rate Case

Docket No. G-008/GR-21-xxx
SCHEDULES SHOWING ALL BILLING DETERMINANTS
LARGE VOLUME: Test Year 2022

2021 Rate Case - DETAILED - NON PUBLIC (Columns I - U)

Customer Forecast

Month	Lg Firm-S	Lg Firm-T	LV-Sales	LV-Trans	Total
Jan-22	25	44	144	110	323
Feb-22	25	44	144	110	323
Mar-22	25	44	144	110	323
Apr-22	25	44	144	110	323
May-22	25	44	144	110	323
Jun-22	25	44	144	110	323
Jul-22	25	44	144	110	323
Aug-22	25	44	144	110	323
Sep-22	25	44	144	110	323
Oct-22	25	44	144	110	323
Nov-22	25	44	144	110	323
Dec-22	25	44	144	110	323
TY 2022	-	-	-	-	-
Average	25	44	144	110	323

[Trade Secret Begins...

Month	Lg Firm-S Standard	Lg Firm-S MR (Pay CIP)	LVF/I-S Standard	LVF/I-S MR	Lg Firm-T Standard	Lg Firm-T MR (Pay CIP)	Lg Firm-T MR (CIP Exempt)	LVF/I-T Standard	LVF/I-T MR (Pay CIP)	LVF/I-T MR (CIP Exempt)	LVDF-Sales Standard	LVDF-Sales MR (Pay CIP)	LVDF-Sales MR (CIP Exempt)	LVDF-Trans Standard	LVDF-Trans Standard (CIP Exempt)	LVDF-Trans MR (Pay CIP)	LVDF-Trans MR (CIP Exempt)
Jan-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Feb-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Mar-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Apr-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
May-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Jun-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Jul-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Aug-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Sep-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Oct-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Nov-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Dec-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
TY 2022																	
Average	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
	228	-	72	-	300	36	72	84	12	24	1,620	108	-	1,164	12	84	60

Month	Lg Firm(S)	Lg Firm(T)	LVDF-Sales	LVDF-Trans	Total	diff	CIP Exempt	nonMR	
Jan-22	25	44	144	110	323	0	14	1	
Feb-22	25	44	144	110	323	0			
Mar-22	25	44	144	110	323	0			
Apr-22	25	44	144	110	323	0			
May-22	25	44	144	110	323	0			
Jun-22	25	44	144	110	323	0			
Jul-22	25	44	144	110	323	0			
Aug-22	25	44	144	110	323	0			
Sep-22	25	44	144	110	323	0			
Oct-22	25	44	144	110	323	0			
Nov-22	25	44	144	110	323	0			
Dec-22	25	44	144	110	323	0			
TY 2022									
Average	25	44	144	110	323	-			

...Trade Secret Data Ends]

CenterPoint Energy Minnesota Gas Sales Forecast (in Dekatherms)

Sales Displayed in DTs

Month	Lg Firm(S)	Lg Firm(T)	LVDF-Sales	LVDF-Trans	Total
			+ ------ before curtailment ------- +		
Jan-22	159,866	2,854,055	819,647	2,477,852	6,311,420
Feb-22	143,673	2,336,297	742,540	2,141,638	5,364,148
Mar-22	129,362	2,054,871	634,880	1,888,919	4,708,032
Apr-22	113,317	2,017,393	544,889	1,731,638	4,407,238
May-22	65,782	1,837,334	388,417	1,590,810	3,882,343
Jun-22	55,900	2,265,245	348,182	1,658,775	4,328,101
Jul-22	54,108	2,741,667	361,475	1,831,913	4,989,163
Aug-22	60,637	2,838,398	389,823	1,899,536	5,188,395
Sep-22	59,769	2,477,684	403,297	1,713,061	4,653,811
Oct-22	74,845	2,584,030	589,710	2,090,010	5,318,595
Nov-22	107,341	1,847,862	581,819	1,706,513	4,243,535
Dec-22	147,932	1,956,922	692,121	2,180,844	4,977,818
TY 2022	1,172,532	27,791,757	6,496,799	22,911,511	58,372,599
MDQ (DT)	8,448	160,421			
Avg MDQ(DTs)	337.9	3,645.9			

489647.511

25,320,724 25122724 198,000

[Trade Secret Begins...

Month	Lg Firm-S Standard	Lg Firm-S MR (Pay CIP)	LVF/I-S Standard	LVF/I-S MR	Lg Firm-T Standard	Lg Firm-T MR (Pay CIP)	Lg Firm-T MR (CIP Exempt)	LVF/I-T Standard	LVF/I-T MR (Pay CIP)	LVF/I-T MR (CIP Exempt)	LVDF-Sales Standard	LVDF-Sales MR (Pay CIP)	LVDF-Sales MR (CIP Exempt)	LVDF-Trans Standard	LVDF-Trans Standard (CIP Exempt)	LVDF-Trans MR (Pay CIP)	LVDF-Trans MR (CIP Exempt)
Jan-22	134,565	0	25,301	0	211,996	210,252	1,899,247	105,690	16,500	410,371	660,013	159,634	0	979,204	302,972	470,210	725,467
Feb-22	115,490	0	28,183	0	191,449	200,237	1,419,521	98,794	16,500	409,795	589,403	153,137	0	883,749	259,957	414,270	583,663
Mar-22	96,875	0	32,487	0	163,019	206,987	1,157,919	89,657	16,500	420,789	493,395	141,484	0	792,530	191,651	374,764	529,974
Apr-22	88,972	0	24,345	0	130,256	203,771	1,166,221	79,436	16,500	421,209	392,174	152,716	0	674,146	148,791	306,404	602,298
May-22	56,021	0	9,762	0	88,959	202,467	1,084,315	65,013	16,500	380,080	255,342	133,075	0	562,419	69,005	275,199	684,187
Jun-22	49,725	0	6,175	0	78,114	199,159	1,476,552	59,753	16,500	435,166	214,416	133,766	0	541,893	64,159	261,598	791,124
Jul-22	49,110	0	4,998	0	73,715	194,909	2,003,288	55,453	16,500	397,802	216,183	145,292	0	571,343	71,075	269,652	919,844
Aug-22	55,140	0	5,497	0	82,516	180,719	2,070,239	61,330	16,500	427,094	243,416	146,407	0	656,978	68,892	266,342	907,325
Sep-22	53,544	0	6,226	0	80,697	191,589	1,759,980	61,152	16,500	367,766	285,165	118,132	0	637,054	55,676	264,796	755,535
Oct-22	64,546	0	10,299	0	112,560	212,843	1,700,780	64,356	16,500	456,992	464,493	125,217	0	741,805	95,871	278,445	973,889
Nov-22	91,649	0	15,692	0	146,423	208,657	981,551	82,548	16,500	412,183	447,049	134,770	0	756,638	166,916	345,743	437,217
Dec-22	126,721	0	21,210	0	190,598	206,067	997,669	97,550	16,500	448,537	551,693	140,427	0	856,017	253,081	434,594	637,152
TY 2022	982,358	0	190,175	0	1,550,301	2,417,658	17,717,282	920,733	198,000	4,987,784	4,812,743	1,684,055	-	8,653,776	1,748,045	3,962,016	8,547,674
MDQ (DT)	6,635	0	1,813	0	10,488	5,662	129,907	2,611	300	11,453							

...Trade Secret Data Ends]

CHECK - total

Month	Lg Firm(S)	Lg Firm(T)	LVDF-Sales	LVDF-Trans	Total	diff	TOTAL CIP Exempt	Std Rate CIP Exmpt	MR Rate CIP Exmpt
Jan-22	159,866	2,854,055	819,647	2,477,852	6,311,420	0	3,338,056	302,972	3,035,084
Feb-22	143,673	2,336,297	742,540	2,141,638	5,364,148	0	2,672,936	259,957	2,412,979
Mar-22	129,362	2,054,871	634,880	1,888,919	4,708,032	0	2,300,334	191,651	2,108,683
Apr-22	113,317	2,017,393	544,889	1,731,638	4,407,238	0	2,338,519	148,791	2,189,728
May-22	65,782	1,837,334	388,417	1,590,810	3,882,343	0	2,217,587	69,005	2,148,582
Jun-22	55,900	2,265,245	348,182	1,658,775	4,328,101	0	2,767,001	64,159	2,702,843
Jul-22	54,108	2,741,667	361,475	1,831,913	4,989,163	0	3,392,008	71,075	3,320,933
Aug-22	60,637	2,838,398	389,823	1,899,536	5,188,395	0	3,473,549	68,892	3,404,658
Sep-22	59,769	2,477,684	403,297	1,713,061	4,653,811	0	2,938,958	55,676	2,883,282
Oct-22	74,845	2,564,030	589,710	2,090,010	5,318,595	0	3,227,532	95,871	3,131,661
Nov-22	107,341	1,847,862	581,819	1,706,513	4,243,535	0	1,997,866	166,916	1,830,950
Dec-22	147,932	1,956,922	692,121	2,180,844	4,977,818	0	2,336,438	253,081	2,083,358
TY 2022	1,172,532	27,791,757	6,496,799	22,911,511	58,372,599	0	33,000,785	1,748,045	31,252,741

Docket No. G-008/GR-21-xxx
SCHEDULES SHOWING ALL BILLING DETERMINANTS
LARGE VOLUME: Test Year 2022

2021 Rate Case - DETAILED - NON PUBLIC (Columns I - U)

Customer Forecast

Month	Lg Firm-S	Lg Firm-T	LV-Sales	LV-Trans	Total
Jan-22	25	44	144	110	323
Feb-22	25	44	144	110	323
Mar-22	25	44	144	110	323
Apr-22	25	44	144	110	323
May-22	25	44	144	110	323
Jun-22	25	44	144	110	323
Jul-22	25	44	144	110	323
Aug-22	25	44	144	110	323
Sep-22	25	44	144	110	323
Oct-22	25	44	144	110	323
Nov-22	25	44	144	110	323
Dec-22	25	44	144	110	323
TY 2022	-	-	-	-	-
Average	25	44	144	110	323

[Trade Secret Begins...

Month	Lg Firm-S Standard	Lg Firm-S MR (Pay CIP)	LVF/I-S Standard	LVF/I-S MR	Lg Firm-T Standard	Lg Firm-T MR (Pay CIP)	Lg Firm-T MR (CIP Exempt)	LVF/I-T Standard	LVF/I-T MR (Pay CIP)	LVF/I-T MR (CIP Exempt)	LVDF-Sales Standard	LVDF-Sales MR (Pay CIP)	LVDF-Sales MR (CIP Exempt)	LVDF-Trans Standard	LVDF-Trans Standard (CIP Exempt)	LVDF-Trans MR (Pay CIP)	LVDF-Trans MR (CIP Exempt)
Jan-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Feb-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Mar-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Apr-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
May-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Jun-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Jul-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Aug-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Sep-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Oct-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Nov-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
Dec-22	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
TY 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	19	-	6	-	25	3	6	7	1	2	135	9	-	97	1	7	5
	228	-	72	-	300	36	72	84	12	24	1,620	108	-	1,164	12	84	60

...Trade Secret Data Ends]

Month	Lg Firm(S)	Lg Firm(T)	LVDF-Sales	LVDF-Trans	Total	diff	CIP Exempt	nonMR
Jan-22	25	44	144	110	323	0	14	1
Feb-22	25	44	144	110	323	0		
Mar-22	25	44	144	110	323	0		
Apr-22	25	44	144	110	323	0		
May-22	25	44	144	110	323	0		
Jun-22	25	44	144	110	323	0		
Jul-22	25	44	144	110	323	0		
Aug-22	25	44	144	110	323	0		
Sep-22	25	44	144	110	323	0		
Oct-22	25	44	144	110	323	0		
Nov-22	25	44	144	110	323	0		
Dec-22	25	44	144	110	323	0		
TY 2022								
Average	25	44	144	110	323	-		

CenterPoint Energy Minnesota Gas Sales Forecast (in Dekatherms)

Sales Displayed in DTs

Month	Lg Firm(S)	Lg Firm(T)	LVDF-Sales	LVDF-Trans	Total
			+ ------ before curtailment ------- +		
Jan-22	160,313	2,854,903	828,841	2,479,314	6,323,371
Feb-22	144,050	2,337,113	750,598	2,142,782	5,374,544
Mar-22	129,675	2,055,630	642,380	1,890,099	4,717,784
Apr-22	113,577	2,017,985	551,440	1,732,474	4,415,475
May-22	65,916	1,837,811	393,810	1,591,415	3,888,952
Jun-22	55,994	2,265,721	353,003	1,659,220	4,333,938
Jul-22	54,198	2,742,107	366,054	1,832,278	4,994,637
Aug-22	60,729	2,838,895	394,946	1,899,991	5,194,561
Sep-22	59,870	2,478,295	408,511	1,713,522	4,660,199
Oct-22	75,042	2,564,733	595,800	2,090,707	5,326,281
Nov-22	107,628	1,848,752	589,034	1,707,190	4,252,604
Dec-22	148,325	1,957,957	700,000	2,181,758	4,988,040
TY 2022	1,175,316	27,799,902	6,574,418	22,920,749	58,470,385
MDQ (DT)	8,448	160,421			
Avg MDQ(DTs)	337.9	3,645.9			

[Trade Secret Begins...

Month	Lg Firm-S Standard	Lg Firm-S MR (Pay CIP)	LVF/I-S Standard	LVF/I-S MR	Lg Firm-T Standard	Lg Firm-T MR (Pay CIP)	Lg Firm-T MR (CIP Exempt)	LVF/I-T Standard	LVF/I-T MR (Pay CIP)	LVF/I-T MR (CIP Exempt)	LVDF-Sales Standard	LVDF-Sales MR (Pay CIP)	LVDF-Sales MR (CIP Exempt)	LVDF-Trans Standard	LVDF-Trans Standard (CIP Exempt)	LVDF-Trans MR (Pay CIP)	LVDF-Trans MR (CIP Exempt)
Jan-22	134,565	0	25,748	0	211,996	211,101	1,899,247	105,690	16,500	410,371	663,734	165,107	0	980,665	302,972	470,210	725,467
Feb-22	115,490	0	28,560	0	191,449	201,054	1,419,521	98,794	16,500	409,795	592,604	157,994	0	884,893	259,957	414,270	583,663
Mar-22	96,875	0	32,799	0	163,019	207,746	1,157,919	89,657	16,500	420,789	496,099	146,281	0	793,710	191,651	374,764	529,974
Apr-22	88,972	0	24,605	0	130,256	204,362	1,166,221	79,436	16,500	421,209	394,222	157,219	0	674,981	148,791	306,404	602,298
May-22	56,021	0	9,896	0	88,959	202,944	1,084,315	65,013	16,500	380,080	256,598	137,212	0	563,024	69,005	275,199	684,187
Jun-22	49,725	0	6,268	0	78,114	199,635	1,476,552	59,753	16,500	435,166	215,468	137,535	0	542,339	64,159	261,598	791,124
Jul-22	49,110	0	5,088	0	73,715	195,349	2,003,288	55,453	16,500	397,802	217,022	149,032	0	571,707	71,075	269,652	919,844
Aug-22	55,140	0	5,589	0	82,516	181,216	2,070,239	61,330	16,500	427,094	244,556	150,391	0	657,432	68,892	266,342	907,325
Sep-22	53,544	0	6,327	0	80,697	192,200	1,759,980	61,152	16,500	367,766	286,396	122,115	0	637,515	55,676	264,796	755,535
Oct-22	64,546	0	10,495	0	112,560	213,546	1,700,780	64,356	16,500	456,992	466,175	129,624	0	742,501	95,871	278,445	973,889
Nov-22	91,649	0	15,979	0	146,423	209,548	981,551	82,548	16,500	412,183	449,517	139,517	0	757,315	166,916	345,743	437,217
Dec-22	126,721	0	21,604	0	190,598	207,102	997,669	97,550	16,500	448,537	554,628	145,372	0	856,931	253,081	434,594	637,152
TY 2022	982,358	0	192,959	0	1,550,301	2,425,802	17,717,282	920,733	198,000	4,987,784	4,837,020	1,737,398	-	8,663,014	1,748,045	3,962,016	8,547,674
MDQ (DT)	6,635	0	1,813	0	10,488	5,662	129,907	2,611	300	11,453							

...Trade Secret Data Ends]

CHECK - total

Month	Lg Firm(S)	Lg Firm(T)	LVDF-Sales	LVDF-Trans	Total	diff	TOTAL CIP Exempt	Std Rate CIP Exempt	MR Rate CIP Exempt
Jan-22	160,313	2,854,903	828,841	2,479,314	6,323,371	0	3,338,056	302,972	3,035,084
Feb-22	144,050	2,337,113	750,598	2,142,782	5,374,544	0	2,672,936	259,957	2,412,979
Mar-22	129,675	2,055,630	642,380	1,890,099	4,717,784	0	2,300,334	191,651	2,108,683
Apr-22	113,577	2,017,985	551,440	1,732,474	4,415,475	0	2,338,519	148,791	2,189,728
May-22	65,916	1,837,811	393,810	1,591,415	3,888,952	0	2,217,587	69,005	2,148,582
Jun-22	55,994	2,265,721	353,003	1,659,220	4,333,938	0	2,767,001	64,159	2,702,843
Jul-22	54,198	2,742,107	366,054	1,832,278	4,994,637	0	3,392,008	71,075	3,320,933
Aug-22	60,729	2,838,895	394,946	1,899,991	5,194,561	0	3,473,549	68,892	3,404,658
Sep-22	59,870	2,478,295	408,511	1,713,522	4,660,199	0	2,938,958	55,676	2,883,282
Oct-22	75,042	2,564,733	595,800	2,090,707	5,326,281	0	3,227,532	95,871	3,131,661
Nov-22	107,628	1,848,752	589,034	1,707,190	4,252,604	0	1,997,866	166,916	1,830,950
Dec-22	148,325	1,957,957	700,000	2,181,758	4,988,040	0	2,336,438	253,081	2,083,358
TY 2022	1,175,316	27,799,902	6,574,418	22,920,749	58,470,385	0	33,000,785	1,748,045	31,252,741

489647.511

CPE Customer forecast
G-008/GR-23-173

			Customer Forecast										Dekatherms per Customer (Forecast)									SALES FORECAST 10-Year WN Sales Forecast (Dth)								
Month	FY	Mo	Resid (Reshape)	ComA	ComB	ComC	IndB	IndC	SDFA	SDFB	Total		Resid	ComA	ComB	ComC	IndB	IndC	SDFA	SDFB	Total	Resid	ComA	ComB	ComC	IndB	IndC	SDFA	SDFB	Total
Jan-24	2024	1	848,302	27,832	20,884	22,184	22	209	792	171	920,396		16.2	16.2	56.8	296.9	72.9	748.2	818.2	2,694.9		13,742,492	450,878	1,186,211	6,586,430	1,604	156,374	648,014	460,828	*23,232,831*
Feb-24	2024	2	848,817	27,818	20,900	22,207	22	209	792	171	920,936		16.3	16.8	57.7	311.3	73.4	792.5	749.4	2,558.9		13,835,717	467,342	1,205,930	6,913,039	1,615	165,633	593,525	437,572	*23,620,373*
Mar-24	2024	3	849,103	27,804	20,917	22,230	22	209	792	171	921,248		13.8	14.0	49.2	280.1	62.8	731.4	562.8	2,071.1		11,717,621	389,256	1,029,116	6,226,623	1,382	152,863	445,738	354,158	*20,316,757*
Apr-24	2024	4	849,365	27,796	20,927	22,243	22	209	792	171	921,525		9.1	8.3	30.9	195.5	29.7	518.2	353.9	1,474.9		7,729,222	230,707	646,644	4,348,507	653	108,304	280,289	252,208	*13,596,534*
May-24	2024	5	849,790	27,778	20,948	22,273	22	209	792	171	921,983		5.4	4.3	17.1	126.6	23.7	340.1	131.4	840.9		4,588,866	119,445	358,211	2,819,762	521	71,081	104,069	143,794	*8,205,749*
Jun-24	2024	6	849,578	27,765	20,963	22,295	22	209	792	171	921,795		2.4	1.4	6.7	62.8	5.1	204.1	83.8	645.5		2,038,987	38,871	140,452	1,400,126	112	42,657	66,370	110,381	*3,837,956*
Jul-24	2024	7	848,970	27,750	20,980	22,320	22	209	792	171	921,214		1.6	1.0	4.9	44.9	1.2	170.2	71.6	646.6		1,358,352	27,750	102,802	1,002,168	26	35,572	56,707	110,569	*2,693,946*
Aug-24	2024	8	849,366	27,738	20,993	22,340	22	209	792	171	921,631		1.6	0.8	3.7	43.4	0.3	160.4	67.9	647.6		1,358,986	22,190	77,674	969,556	7	33,524	53,777	110,740	*2,626,454*
Sep-24	2024	9	850,330	27,728	21,005	22,356	22	209	792	171	922,613		1.6	0.7	3.9	43.2	0.1	159.5	62.7	648.7		1,360,528	19,410	81,920	965,779	2	33,336	49,658	110,928	*2,621,561*
Oct-24	2024	10	852,537	27,720	21,014	22,369	22	209	792	171	924,834		2.5	1.0	5.8	59.3	15.6	203.0	326.0	1,300.3		2,131,343	27,720	121,881	1,326,482	343	42,427	258,192	222,351	*4,130,739*
Nov-24	2024	11	854,053	27,711	21,024	22,384	22	209	792	171	926,366		6.4	4.1	18.4	127.4	62.2	361.3	545.2	1,905.1		5,465,939	113,615	386,842	2,851,722	1,368	75,512	431,798	325,772	*9,652,568*
Dec-24	2024	12	855,354	27,703	21,033	22,397	22	209	792	171	927,681		11.6	10.1	38.5	216.2	56.4	594.3	735.1	2,498.3		9,922,106	279,800	809,771	4,842,231	1,241	124,209	582,199	427,209	*16,988,766*
Test Period		Avg	850,464	27,762	20,966	22,300	22	209	792	171	922,685	total	88.5	78.7	293.6	1,807.6	403.4	4,983.2	4,508.0	17,932.8		75,250,159	2,186,984	6,147,454	40,252,425	8,874	1,041,492	3,570,336	3,066,510	131,524,234
			10,205,565	333,143	251,588	267,598	264	2,508	9,504	2,052	11,072,222																			
					251,852																									

CPE Customer forecast
G-008/GR-23-___

Customer Forecast

Month	FY	Mo	Resid (Reshape)	ComA	ComB	ComC	IndB	IndC	SDFA	SDFB	Total
Jan-24	2024	1	856,265	27,673	21,068	22,447	22	209	792	171	928,647
Feb-24	2024	2	856,810	27,659	21,085	22,470	22	209	792	171	929,218
Mar-24	2024	3	857,113	27,644	21,102	22,495	22	209	792	171	929,548
Apr-24	2024	4	857,390	27,635	21,112	22,510	22	209	792	171	929,841
May-24	2024	5	857,839	27,616	21,134	22,542	22	209	792	171	930,325
Jun-24	2024	6	857,616	27,602	21,150	22,565	22	209	792	171	930,127
Jul-24	2024	7	856,971	27,587	21,168	22,590	22	209	792	171	929,510
Aug-24	2024	8	857,391	27,575	21,182	22,610	22	209	792	171	929,952
Sep-24	2024	9	858,411	27,565	21,194	22,627	22	209	792	171	930,991
Oct-24	2024	10	860,746	27,557	21,203	22,640	22	209	792	171	933,340
Nov-24	2024	11	862,350	27,548	21,214	22,655	22	209	792	171	934,961
Dec-24	2024	12	863,727	27,540	21,223	22,668	22	209	792	171	936,352
Test Period		Avg	858,552	27,600	21,153	22,568	22	209	792	171	931,068
			10,302,629	331,201	253,835	270,819	264	2,508	9,504	2,052	11,172,812
					254,099						

Dekatherms per Customer (Forecast)

Month	FY	Mo	Resid	ComA	ComB	ComC	IndB	IndC	SDFA	SDFB	Total
Jan-24	2024	1	16.2	16.3	56.9	293.9	73.2	752.1	810.5	2,705.3	
Feb-24	2024	2	16.3	16.9	57.7	304.4	73.3	796.0	740.5	2,570.0	
Mar-24	2024	3	13.9	14.1	49.1	272.6	63.0	731.3	561.9	2,082.8	
Apr-24	2024	4	9.1	8.4	30.9	189.7	29.6	518.9	354.2	1,487.3	
May-24	2024	5	5.5	4.4	17.1	121.6	23.4	342.3	128.2	853.3	
Jun-24	2024	6	2.4	1.5	6.7	60.5	4.8	208.2	82.3	657.9	
Jul-24	2024	7	1.6	1.1	4.9	43.5	1.0	173.0	72.1	659.0	
Aug-24	2024	8	1.6	0.9	3.7	43.4	0.3	164.7	68.3	660.0	
Sep-24	2024	9	1.6	0.8	3.9	43.4	0.1	162.7	66.4	661.0	
Oct-24	2024	10	2.5	1.1	5.9	59.3	15.6	206.8	328.4	1,312.7	
Nov-24	2024	11	6.4	4.2	18.5	126.4	62.2	362.4	548.8	1,917.4	
Dec-24	2024	12	11.6	10.2	38.5	216.3	56.4	597.4	734.0	2,510.6	
		total	88.7	79.9	293.8	1,775.0	402.9	5,015.8	4,495.6	18,077.3	

SALES FORECAST 10-Year WN

Sales Forecast (Dth)

Month	FY	Mo	Resid	ComA	ComB	ComC	IndB	IndC	SDFA	SDFB	Total
Jan-24	2024	1	13,871,490	451,070	1,198,769	6,597,173	1,610	157,189	641,916	462,606	*23,381,823*
Feb-24	2024	2	13,966,008	467,437	1,216,605	6,839,868	1,613	166,364	586,476	439,470	*23,683,841*
Mar-24	2024	3	11,913,869	389,780	1,036,108	6,132,137	1,386	152,842	445,025	356,159	*20,427,306*
Apr-24	2024	4	7,802,246	232,134	652,361	4,270,147	651	108,450	280,526	254,328	*13,600,843*
May-24	2024	5	4,718,115	121,510	361,391	2,741,107	515	71,541	101,534	145,914	*8,261,627*
Jun-24	2024	6	2,058,278	41,403	141,705	1,365,183	106	43,514	65,182	112,501	*3,827,872*
Jul-24	2024	7	1,371,154	30,346	103,723	982,665	22	36,157	57,103	112,689	*2,693,859*
Aug-24	2024	8	1,371,825	24,818	78,373	981,274	7	34,422	54,094	112,860	*2,657,673*
Sep-24	2024	9	1,373,458	22,052	82,657	982,012	2	34,004	52,589	113,031	*2,659,805*
Oct-24	2024	10	2,151,866	30,313	125,098	1,342,552	343	43,221	260,093	224,472	*4,177,958*
Nov-24	2024	11	5,519,039	115,702	392,459	2,863,592	1,368	75,742	434,650	327,875	*9,730,427*
Dec-24	2024	12	10,019,228	280,908	817,086	4,903,088	1,241	124,857	581,328	429,313	*17,157,049*
Test Period		total	76,136,576	2,207,473	6,206,335	40,000,798	8,864	1,048,303	3,560,516	3,091,218	132,260,083

SVDF -Sales Service / Transport Allocation

CUSTOMERS -Sales (S) v. Transport (T) split

Test Year	Total Com-C	Total Ind-C	Total SVDF A	Total SVDF B	Com C S	Ind C S	Com C T	Ind C T	SDF A S	SDF A T	SDF B S	SDF B T
Jan-24	22,184	209	792	171	21,799	181	385	28	728	64	144	27
Feb-24	22,207	209	792	171	21,822	181	385	28	728	64	144	27
Mar-24	22,230	209	792	171	21,845	181	385	28	728	64	144	27
Apr-24	22,243	209	792	171	21,858	181	385	28	728	64	144	27
May-24	22,273	209	792	171	21,888	181	385	28	728	64	144	27
Jun-24	22,295	209	792	171	21,910	181	385	28	728	64	144	27
Jul-24	22,320	209	792	171	21,935	181	385	28	728	64	144	27
Aug-24	22,340	209	792	171	21,955	181	385	28	728	64	144	27
Sep-24	22,356	209	792	171	21,971	181	385	28	728	64	144	27
Oct-24	22,369	209	792	171	21,984	181	385	28	728	64	144	27
Nov-24	22,384	209	792	171	21,999	181	385	28	728	64	144	27
Dec-24	22,397	209	792	171	22,012	181	385	28	728	64	144	27
	267,598	2,508	9,504	2,052	262,978	2,172	4,620	336	8,736	768	1,728	324
				Average	21,915							

UPDATED FOR DOC METHOD (Below)

	B&V Forecast Com C	Ind C	SVDF A	SVDF B		Volume Splits: Sales V. Transport Com-Ind C S	Com-Ind C T	SDFA-S	SDFA-T	SDFB-S	SDFB-T
Jan-24	6,586,430	156,374	648,014	460,828		6,607,548	135,256	595,649	52,365	388,066	72,762
Feb-24	6,913,039	165,633	593,525	437,572		6,936,631	142,041	545,563	47,962	368,482	69,090
Mar-24	6,226,623	152,863	445,738	354,158		6,251,168	128,318	409,719	36,019	298,238	55,920
Apr-24	4,348,507	108,304	280,289	252,208		4,367,034	89,777	257,639	22,650	212,386	39,822
May-24	2,819,762	71,081	104,069	143,794		2,832,579	58,264	95,659	8,410	121,090	22,704
Jun-24	1,400,126	42,657	66,370	110,381		1,412,890	29,893	61,007	5,363	92,952	17,429
Jul-24	1,002,168	35,572	56,707	110,569		1,015,688	22,052	52,125	4,582	93,111	17,458
Aug-24	969,556	33,524	53,777	110,740		981,880	21,200	49,431	4,346	93,255	17,485
Sep-24	965,779	33,336	49,658	110,928		978,017	21,098	45,645	4,013	93,413	17,515
Oct-24	1,326,482	42,427	258,192	222,351		1,340,394	28,515	237,328	20,864	187,243	35,108
Nov-24	2,851,722	75,512	431,798	325,772		2,868,069	59,165	396,905	34,893	274,334	51,438
Dec-24	4,842,231	124,209	582,199	427,209		4,866,563	99,877	535,153	47,046	359,755	67,454
	40,252,425	1,041,492	3,570,336	3,066,510		40,458,461	835,456	3,281,824	288,512	2,582,324	484,186
	41,293,917				Co Filed	41,293,917					
check	41,293,917		3,570,336	3,066,510		41,293,917		3,570,336		3,066,510	

- Total Com-C, Ind-C, SVDF A and SVDF B were statistically modeled by B&V.
- Firm Com-C and Ind-C customer forecasts are added together
- SVDF Transport customer count estimated using last 3-yr average customers by month
- Customers x Projected UPC for transport forecast
- Sales service forecast result of Total forecast less Transport forecast

Sales/Transport split based on customer count X class UPC

SVDF -Sales Service / Transport Allocation

CUSTOMERS -Sales (S) v. Transport (T) split

Test Year	Total Com-C	Total Ind-C	Total SVDF A	Total SVDF B	Com C S	Ind C S	Com C T	Ind C T	SDF A S	SDF A T	SDF B S	SDF B T
Jan-25	22,447	209	792	171	22,062	181	385	28	728	64	144	27
Feb-25	22,470	209	792	171	22,085	181	385	28	728	64	144	27
Mar-25	22,495	209	792	171	22,110	181	385	28	728	64	144	27
Apr-25	22,510	209	792	171	22,125	181	385	28	728	64	144	27
May-25	22,542	209	792	171	22,157	181	385	28	728	64	144	27
Jun-25	22,565	209	792	171	22,180	181	385	28	728	64	144	27
Jul-25	22,590	209	792	171	22,205	181	385	28	728	64	144	27
Aug-25	22,610	209	792	171	22,225	181	385	28	728	64	144	27
Sep-25	22,627	209	792	171	22,242	181	385	28	728	64	144	27
Oct-25	22,640	209	792	171	22,255	181	385	28	728	64	144	27
Nov-25	22,655	209	792	171	22,270	181	385	28	728	64	144	27
Dec-25	22,668	209	792	171	22,283	181	385	28	728	64	144	27
	270,819	2,508	9,504	2,052	266,199	2,172	4,620	336	8,736	768	1,728	324
				Average	22,183							

UPDATED FOR DOC METHOD (Below)

	B&V Forecast Com C	Ind C	SVDF A	SVDF B
Jan-25	6,597,173	157,189	641,916	462,606
Feb-25	6,839,868	166,364	586,476	439,470
Mar-25	6,132,137	152,842	445,025	356,159
Apr-25	4,270,147	108,450	280,526	254,328
May-25	2,741,107	71,541	101,534	145,914
Jun-25	1,365,183	43,514	65,182	112,501
Jul-25	982,665	36,157	57,103	112,689
Aug-25	981,274	34,422	54,094	112,860
Sep-25	982,012	34,004	52,589	113,031
Oct-25	1,342,552	43,221	260,093	224,472
Nov-25	2,863,592	75,742	434,650	327,875
Dec-25	4,903,088	124,857	581,328	429,313
	40,000,798	1,048,303	3,560,516	3,091,218
	41,049,101			
check	41,049,101		3,560,516	3,091,218

Volume Splits: Sales V. Transport

	Com-Ind C S	Com-Ind C T	SDFA-S	SDFA-T	SDFB-S	SDFB-T
Jan-25	6,620,152	134,210	590,044	51,872	389,563	73,043
Feb-25	6,866,750	139,482	539,084	47,392	370,080	69,390
Mar-25	6,159,552	125,427	409,063	35,962	299,923	56,236
Apr-25	4,291,033	87,564	257,857	22,669	214,171	40,157
May-25	2,756,248	56,400	93,329	8,205	122,875	23,039
Jun-25	1,379,575	29,122	59,915	5,267	94,738	17,763
Jul-25	997,231	21,592	52,489	4,614	94,896	17,793
Aug-25	994,375	21,321	49,723	4,371	95,040	17,820
Sep-25	994,751	21,265	48,339	4,250	95,184	17,847
Oct-25	1,357,152	28,621	239,075	21,018	189,029	35,443
Nov-25	2,880,523	58,811	399,527	35,123	276,105	51,770
Dec-25	4,927,942	100,003	534,352	46,976	361,527	67,786
	40,225,283	823,818	3,272,798	287,718	2,603,131	488,087
Co Filed	41,049,101					
	41,049,101		3,560,516		3,091,218	

- Total Com-C, Ind-C, SVDF A and SVDF B were statistically modeled by B&V.
- Firm Com-C and Ind-C customer forecasts are added together
- SVDF Transport customer count estimated using last 3-yr average customers by month
- Customers x Projected UPC for transport forecast
- Sales service forecast result of Total forecast less Transport forecast

Sales/Transport split based on customer count X class UPC

CenterPoint Energy Minnesota Gas has designated certain information as TRADE SECRET. The identified trade secret information meets the definition of trade secret information in Minn. Stat. §13.37 subd.1(b) as follows:

(1) the information was supplied by CenterPoint Energy Minnesota Gas, the affected organization;

(2) CenterPoint Energy Minnesota Gas has taken all reasonable efforts to maintain the secrecy of the information, including protecting it from disclosure in this proceeding; and

(3) the protected information contains gas supply and revenue projection information that have not been previously released to the public which derive independent economic value, actual or potential, from not being generally known to, and not being readily ascertainably by proper means by other persons who can obtain economic value from its disclosure or use.

The public and non-public contents are so intertwined and interspersed throughout as to make many individual pages/tabs entirely non-public. The trade secret and non-public information has been excised from the public workpapers listed below. Disclosure of this information to the public could be deemed a violation of the rules and regulations of the Securities Exchange Commission. The list below identifies

Nature of the Material: Test Year 2020 Revenue Forecast using Projected Sales Volume and Customer
Author: The Company using GLF Forecast
General Import: Contains detailed Revenue Forecast projections
Date Document was Prepared: Fall 2019 in preparation for Rate Filing

NOTE: Tabs highlighted in RED in this Excel File contain Trade Secret / Non-Public information

		Found In Summary PUBLIC Testimony:
	Detailed Sched E-2	MAK-WP, Sch 35, WP 3
	Sched E-1(a)	Volume 1
	Sched E-1(b)	Volume 1
	CPE Detailed Summary	Alternate view of Detailed Sched E-2
Non-Public	NP Volumetric Per Unit Calc	Company Calculation of Proposed Rate Design
Non-Public	NP LV Dem&Min Vol	MAK-WP, Sch 35, WP 5, Page 1 of 3
Non-Public	NP LV FORECAST Therms	MAK-WP, Sch 35, WP 5, Page 1 of 3
Non-Public	NP Detail Curtail 2020	MAK-WP, Sch 35, WP 5, Page 2 of 3
	SmVol Trans Split	MAK-WP, Sch 35, WP 4
	Detailed Steps	
	Harbour 2020 TY FC - Regression based forecast summary	
	Res Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	ComA Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	ComB Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	IndB Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	ComC Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	IndC Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	SDFA Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	SDFB Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr

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Author: The Company using GLF Forecast
General Import: Contains detailed Revenue Forecast projections
Date Document was Prepared: Fall 2019 in preparation for Rate Filing

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	IndB Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	ComC Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	IndC Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	SDFA Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr
	SDFB Forecast	GLF- Prefiled - CenterPoint MN Sales Forecast 2019-10yr

CenterPoint Energy Minnesota Gas
Summary of Test Year Operating Revenues
Under Present and Proposed Rates

Line No.	Class	Total Test Year Revenue @ Present Rates	Total Test Year Revenue Responsibility	Proposed Increase (Decrease)	Percentage Change
	(a)	(b)	(c)	(d)	(e)
1	Residential	$760,313,119	$787,884,777	$27,571,658	3.6%
2	Comm Firm A	$26,441,179	$27,590,927	$1,149,748	4.3%
3	Comm/Ind Firm B	$58,167,115	$61,691,114	$3,523,999	6.1%
4	Comm/Ind Firm C - Sales Service	$334,756,797	$355,766,876	$21,010,079	6.3%
5	Comm/Ind Firm C - Transport	$2,356,650	$2,790,502	$433,852	18.4%
6	Large General Firm Sales Service	$8,807,043	$9,175,053	$368,010	4.2%
7	Large Firm Transport	$17,061,590	$18,195,626	$1,134,036	6.6%
8	Small Dual Fuel A - Sales Service	$8,163,914	$8,573,567	$409,653	5.0%
9	Small Dual Fuel A - Transport	$235,314	$263,269	$27,955	11.9%
10	Small Dual Fuel B - Sales Service	$5,699,801	$5,993,445	$293,644	5.2%
11	Small Dual Fuel B - Transport	$312,464	$372,226	$59,761	19.1%
12	Large Volume - Dual Fuel Sales Service	$20,138,675	$20,986,322	$847,647	4.2%
13	Large Volume - Dual Fuel Transport	$8,277,565	$9,800,929	$1,523,365	18.4%
14	SVDF A--Sales Service Economic Curtailment	$13,320,070	$13,647,575	$327,505	2.5%
15	SVDF A--Transport Econcomic Curtailment	$383,933	$412,725	$28,792	7.5%
16	SVDF B--Sales Service Economic Curtailment	$10,082,629	$10,236,483	$153,854	1.5%
17	Total SVDF B--Transport Economic Curtailment	$509,810	$560,722	$50,912	10.0%
18	Large Volume Dual Fuel-Sales Service-Econ Curtail	$17,461,309	$18,211,330	$750,020	4.3%
19	Large Volume Dual Fuel-Transport Econ Curtail	$6,449,917	$7,561,429	$1,111,512	17.2%
20					
21					
22	TOTAL	$1,298,938,897	$1,359,714,899	$60,776,002	4.7%

CenterPoint Energy Minnesota Gas
SUMMARY CALCULATION of TOTAL PRESENT and FINAL REVENUE

Line No.		Class of Service	Total Test Year Revenue @ DOC FC	Late Payment/ Other Revenue 2/	Present Billing Rate Revenue	Final Billing Rate Revenue Increase (Decrease)	Final Billing Rate Revenue	Late Payment/ Other Revenue	Total Proposed Revenue Responsibility
		(a)	(b)=(c)+(d)	(c)	(d) 1/	(e) 1/	(f)=(d)+(e) 1/	(g)	(h)=(f)+(g)
1	1	Residential	$763,536,644	$3,223,524	$760,313,119	$27,571,658	$787,884,777	$3,223,524	$791,108,302
2	2	Comm Firm A	$26,582,598	$141,419	$26,441,179	$1,149,748	$27,590,927	$141,419	$27,732,346
3	3	Comm/Ind Firm B	$58,387,408	$220,292	$58,167,115	$3,523,999	$61,691,114	$220,292	$61,911,406
4	4	Comm/Ind Firm C - Sales Service	$335,622,288	$865,490	$334,756,797	$21,010,079	$355,766,876	$865,490	$356,632,367
5	5	Comm/Ind Firm C - Transport	$2,436,927	$80,277	$2,356,650	$433,852	$2,790,502	$80,277	$2,870,779
6	6	Large General Firm Sales Service	$8,837,397	$30,354	$8,807,043	$368,010	$9,175,053	$30,354	$9,205,407
7	7	Large Firm Transport	$17,328,330	$266,740	$17,061,590	$1,134,036	$18,195,626	$266,740	$18,462,366
8	8	Small Dual Fuel A - Sales Service 3/	$21,519,413	$35,429	$21,483,984	$737,158	$22,221,142	$35,429	$22,256,571
9	9	Small Dual Fuel A - Transport	$707,355	$88,108	$619,247	$56,747	$675,994	$88,108	$764,102
10	10	Small Dual Fuel B - Sales Service	$15,821,145	$38,715	$15,782,430	$447,498	$16,229,928	$38,715	$16,268,643
11	11	Small Dual Fuel B - Transport	$826,852	$4,578	$822,274	$110,673	$932,948	$4,578	$937,525
12	12	Large Volume - Dual Fuel Sales Service	$37,700,999	$101,014	$37,599,984	$1,597,668	$39,197,652	$101,014	$39,298,666
13	13	Large Volume - Dual Fuel Transport	$14,886,858	$159,376	$14,727,482	$2,634,876	$17,362,358	$159,376	$17,521,734
20	20								
21	21	TOTAL	$1,304,194,214	$5,255,317	$1,298,938,897	$60,776,002	$1,359,714,899	$5,255,317	$1,364,970,216

1/ See Schedule E-02, Part 2 for detailed calculations showing all billing determinants.
Minor rounding differences occur.

2 / Updated - allocated same as original, reduced amount

3/ Economic Curtailment Combined in SDF & LVD

CenterPoint Energy Minnesota Gas
Summary of Plan Year Operating Revenues 2025
Under Present and Proposed Rates

Line No.	Class	Total Test Year Revenue @ Present Rates	Total Test Year Revenue Responsibility	Proposed Increase (Decrease)	Percentage Change
	(a)	(b)	(c)	(d)	(e)
1	Residential	$796,945,784	$809,987,980	$13,042,195	1.6%
2	Comm Firm A	$27,763,344	$28,354,396	$591,052	2.1%
3	Comm/Ind Firm B	$62,276,528	$64,825,381	$2,548,853	4.1%
4	Comm/Ind Firm C - Sales Service	$354,025,152	$373,747,609	$19,722,456	5.6%
5	Comm/Ind Firm C - Transport	$2,763,020	$3,166,938	$403,918	14.6%
6	Large General Firm Sales Service	$9,191,236	$9,489,652	$298,415	3.2%
7	Large Firm Transport	$18,212,534	$19,111,069	$898,535	4.9%
8	Small Dual Fuel A - Sales Service	$8,550,716	$8,777,329	$226,613	2.7%
9	Small Dual Fuel A - Transport	$270,726	$290,648	$19,922	7.4%
10	Small Dual Fuel B - Sales Service	$6,358,218	$6,513,754	$155,536	2.4%
11	Small Dual Fuel B - Transport	$375,002	$404,943	$29,942	8.0%
12	Large Volume - Dual Fuel Sales Service	$21,254,805	$21,958,632	$703,827	3.3%
13	Large Volume - Dual Fuel Transport	$9,804,957	$11,050,270	$1,245,313	12.7%
14	SVDF A--Sales Service Economic Curtailment	$13,611,230	$13,960,652	$349,422	2.6%
15	SVDF A--Transport Econcomic Curtailment	$411,825	$442,544	$30,718	7.5%
16	SVDF B--Sales Service Economic Curtailment	$10,130,865	$10,375,329	$244,464	2.4%
17	Total SVDF B--Transport Economic Curtailment	$564,876	$611,930	$47,054	8.3%
18	Large Volume Dual Fuel-Sales Service-Econ Curtail	$18,297,588	$18,989,080	$691,493	3.8%
19	Large Volume Dual Fuel-Transport Econ Curtail	$7,567,525	$8,970,799	$1,403,274	18.5%
20					
21					
22	TOTAL	$1,368,375,930	$1,411,028,932	$42,653,002	3.1%

CenterPoint Energy Minnesota Gas
SUMMARY CALCULATION of TOTAL PRESENT and FINAL REVENUE 2025

Line No.		Class of Service	Total Test Year Revenue @ DOC FC	Late Payment/ Other Revenue 2/	Present Billing Rate Revenue	Final Billing Rate Revenue Increase (Decrease)	Final Billing Rate Revenue	Late Payment/ Other Revenue	Total Proposed Revenue Responsibility
		(a)	(b)=(c)+(d)	(c)	(d) 1/	(e) 1/	(f)=(d)+(e) 1/	(g)	(h)=(f)+(g)
1	1	Residential	$800,208,784	$3,263,000	$796,945,784	$13,042,195	$809,987,980	$3,263,000	$813,250,980
2	2	Comm Firm A	$27,905,182	$141,838	$27,763,344	$591,052	$28,354,396	$141,838	$28,496,234
3	3	Comm/Ind Firm B	$62,503,772	$227,244	$62,276,528	$2,548,853	$64,825,381	$227,244	$65,052,625
4	4	Comm/Ind Firm C - Sales Service	$354,946,110	$920,958	$354,025,152	$19,722,456	$373,747,609	$920,958	$374,668,567
5	5	Comm/Ind Firm C - Transport	$2,848,347	$85,327	$2,763,020	$403,918	$3,166,938	$85,327	$3,252,265
6	6	Large General Firm Sales Service	$9,223,084	$31,848	$9,191,236	$298,415	$9,489,652	$31,848	$9,521,500
7	7	Large Firm Transport	$18,480,701	$268,167	$18,212,534	$898,535	$19,111,069	$268,167	$19,379,236
8	8	Small Dual Fuel A - Sales Service 3/	$22,201,286	$39,340	$22,161,946	$576,035	$22,737,981	$39,340	$22,777,321
9	9	Small Dual Fuel A - Transport	$776,846	$94,295	$682,551	$50,640	$733,192	$94,295	$827,487
10	10	Small Dual Fuel B - Sales Service	$16,531,839	$42,756	$16,489,083	$400,000	$16,889,082	$42,756	$16,931,838
11	11	Small Dual Fuel B - Transport	$945,046	$5,169	$939,877	$76,996	$1,016,873	$5,169	$1,022,042
12	12	Large Volume - Dual Fuel Sales Service	$39,661,096	$108,704	$39,552,392	$1,395,320	$40,947,712	$108,704	$41,056,416
13	13	Large Volume - Dual Fuel Transport	$17,544,849	$172,367	$17,372,482	$2,648,586	$20,021,069	$172,367	$20,193,436
20	20								
21	21	TOTAL	$1,373,776,943	$5,401,014	$1,368,375,930	$42,653,002	$1,411,028,932	$5,401,013	$1,416,429,945

1/ See Schedule E-02, Part 2 for detailed calculations showing all billing determinants.
Minor rounding differences occur.

2 / Updated - allocated same as original, reduced amount

3/ Economic Curtailment Combined in SDF & LVD

CenterPoint Energy's Test-Year Sales and Revenue Forecasts

CenterPoint

Revenue

Rate Class	Bills	Sales (After Curtailment)	Present (after Curtailments) Demand	Commodity	Cost of Gas	Delivery Charge B4 CIP	CIP	Total Delivery	GAP	Total Billing Rate	Fixed and Minimum Demand Charge	Total Revenue
(a)	(b)	(c)	(d)	(e)	(f= d+e)	(g)	(h)	(i= g+h)	(j)	(k = f+i+j)	(l)	(m=k + l)
Residential	10,205,565	75,250,159	$100,827,688	$351,132,292	$451,959,980	$192,821,007	$18,579,264	$211,400,272	$0	$663,360,252	$96,952,868	$760,313,119
Comm/Ind A	333,143	2,186,984	$2,930,340	$10,204,905	$13,135,245	$7,768,823	$539,966	$8,308,790	$0	$21,444,034	$4,997,145	$26,441,179
Comm/Ind B	251,852	6,156,328	$8,248,864	$28,726,658	$36,975,522	$13,123,444	$1,519,997	$14,643,442	$0	$51,618,963	$6,548,152	$58,167,115
Comm/Ind C - Sales	265,150	40,458,461	$54,210,292	$188,787,270	$242,997,562	$64,535,291	$9,989,194	$74,524,485	$0	$317,522,047	$17,234,750	$334,756,797
Comm/Ind C - Transport	4,956	835,456	$0	$0	$0	$1,332,636	$206,274	$1,538,910	$0	$1,538,910	$817,740	$2,356,650
Small Firm	**11,060,666**	**124,887,388**	**166,217,184**	**578,851,125**	**745,068,308**	**279,581,202**	**30,834,696**	**310,415,898**	**0**	**1,055,484,207**	**126,550,655**	**1,182,034,861**
Large Volume Firm-Sales Service	300	1,172,532	$1,251,717	$5,471,270	$6,722,987	$777,858	$289,498	$1,067,356	$0	$7,790,343	$1,016,700	$8,807,043
Large Volume Firm -Trans -MR	528	27,791,757	$0	$0	$0	$5,024,664	$1,255,904	$6,280,568	$0	$6,280,568	$10,781,022	$17,061,590
Large Volume Firm (Sales+Trans)	**828**	**28,964,289**	**$1,251,717**	**$5,471,270**	**$6,722,987**	**$5,802,522**	**$1,545,402**	**$7,347,925**	**$0**	**$14,070,912**	**$11,797,722**	**$25,868,634**
SVDF A--Sales Service	3,320	1,247,093	$0	$5,819,186	$5,819,186	$1,771,246	$307,907	$2,079,154	$0	$7,898,340	$265,574	$8,163,914
SVDF A--Transport	292	109,635	$0	$0	$0	$155,714	$27,069	$182,783	$0	$182,783	$52,531	$235,314
Total SVDF A (Svc + Trans)	**3,612**	**1,356,728**	**0**	**5,819,186**	**5,819,186**	**1,926,960**	**334,976**	**2,261,936**	**0**	**8,081,122**	**318,106**	**8,399,228**
SVDF B--Sales Service	657	904,057	$0	$4,218,512	$4,218,512	$1,175,998	$223,212	$1,399,209	$0	$5,617,721	$82,080	$5,699,801
SVDF B--Transport	123	183,991	$0	$0	$0	$239,335	$45,427	$284,762	$0	$284,762	$27,702	$312,464
Total SVDF B (Svc + Trans)	**780**	**1,088,048**	**$0**	**$4,218,512**	**$4,218,512**	**$1,415,333**	**$268,639**	**$1,683,972**	**$0**	**$5,902,483**	**$109,782**	**$6,012,265**
Large Volume DF--Sales Service	616	1,781,152	$0	$8,311,210	$8,311,210	$1,181,616	$439,766	$1,621,382	$0	$9,932,593	$769,500	$10,702,093
Large Volume DF--Market Rate	108	1,651,517	$0	$7,706,311	$7,706,311	$1,106,021	$407,760	$1,513,781	$0	$9,220,091	$216,491	$9,436,582
Large Volume DF Sales Service	724	3,432,669	$0	$16,017,521	$16,017,521	$2,287,637	$847,526	$3,135,163	$0	$19,152,684	$985,991	$20,138,675
Large Volume DF--Transport	447	3,860,147	$0	$0	$0	$2,560,822	$789,065	$3,349,887	$0	$3,349,887	$603,288	$3,953,175
Large Volume DF Transport--MR	144	12,296,743	$0	$0	$0	$3,200,842	$925,645	$4,126,487	$0	$4,126,487	$197,902	$4,324,390
Large Volume DF Transport Service	591	16,156,891	$0	$0	$0	$5,761,664	$1,714,710	$7,476,375	$0	$7,476,375	$801,190	$8,277,565
Total Lg Vol DF Sales Service & Transport	**1,314**	**19,589,560**	**$0**	**$16,017,521**	**$16,017,521**	**$8,049,301**	**$2,562,236**	**$10,611,538**	**$0**	**$26,629,059**	**$1,787,181**	**$28,416,240**
Total System Results	**11,067,200**	**175,886,013**	**$167,468,900**	**$610,377,614**	**$777,846,514**	**$296,775,319**	**$35,545,950**	**$332,321,269**	**$0**	**$1,110,167,783**	**$140,563,445**	**$1,250,731,228**

Rate Class	Proposed - Initial Demand	Commodity	Cost of Gas	Delivery Charge B4 CIP	CIP	Total Delivery	GAP	Total Billing Rate	Fixed Charge and Minimum Demand	Total Revenue	Increase Basic charge Amount	Percent	Increase Total Margin Amount	Percent	Total Revenue Increase Amount	Percent
(a)	(n)	(o)	(p= n+o)	(q)	(r)	(s= q+r)	(t)	(u= s+t)	(v)	(w = u+v)	(x=v-l)	(y)	(z)	(aa)	(ab=w-m)	(ac)
Residential	$100,827,688	$351,132,292	$451,959,980	$214,861,779	$24,110,151	$238,971,930	$0	$690,931,910	$96,952,868	$787,884,777	$0	0.0%	$27,571,658	8.21%	$27,571,658	3.63%
Comm/Ind A	$2,930,340	$10,204,905	$13,135,245	$8,091,542	$700,710	$8,792,252	$0	$21,927,496	$5,663,431	$27,590,927	$666,286	13.3%	$1,149,748	7.95%	$1,149,748	4.35%
Comm/Ind B	$8,248,864	$28,726,658	$36,975,522	$15,691,249	$1,972,487	$17,663,736	$0	$54,639,258	$7,051,856	$61,691,114	$503,704	7.7%	$3,523,999	14.26%	$3,523,999	6.06%
Comm/Ind C - Sales	$54,210,292	$188,787,270	$242,997,562	$82,571,673	$12,962,891	$95,534,564	$0	$338,532,126	$17,234,750	$355,766,876	$0	0.0%	$21,010,079	18.63%	$21,010,079	6.28%
Comm/Ind C - Transport	$0	$0	$0	$1,705,082	$267,680	$1,972,762	$0	$1,972,762	$817,740	$2,790,502	$0	0.0%	$433,852	15.55%	$433,852	18.41%
Small Firm	**166,217,184**	**578,851,125**	**745,068,308**	**322,921,325**	**40,013,919**	**362,935,244**	**0**	**1,108,003,553**	**127,720,645**	**1,235,724,197**	$1,169,990	0.9%	**53,689,336**	10.94%	**53,689,336**	4.54%
Large Volume Firm-Sales Service	$1,251,717	$5,471,270	$6,722,987	$969,684	$375,679	$1,345,364	$0	$8,068,351	$1,106,703	$9,175,053	$90,003	8.9%	$368,010	15.01%	$368,010	4.18%
Large Volume Firm -Trans -MR	$0	$0	$0	$5,626,427	$1,629,776	$7,256,203	$0	$7,256,203	$10,939,424	$18,195,626	$158,402	1.5%	$1,134,036	6.23%	$1,134,036	6.65%
Large Volume Firm (Sales+Trans)	**$1,251,717**	**$5,471,270**	**$6,722,987**	**$6,596,111**	**$2,005,455**	**$8,601,566**	**$0**	**$15,324,554**	**$12,046,126**	**$27,370,680**	**$248,404**	**2.1%**	**$1,502,046**	**7.27%**	**$1,502,046**	**5.81%**
SVDF A--Sales Service	$0	$5,819,186	$5,819,186	$2,089,238	$399,569	$2,488,806	$0	$8,307,992	$265,574	$8,573,567	$0	0.0%	$409,653	14.87%	$409,653	5.02%
SVDF A--Transport	$0	$0	$0	$183,669	$27,069	$210,738	$0	$210,738	$52,531	$263,269	$0	0.0%	$27,955	10.62%	$27,955	11.88%
Total SVDF A (Svc + Trans)	**0**	**5,819,186**	**5,819,186**	**2,272,907**	**426,637**	**2,699,544**	**0**	**8,518,730**	**318,106**	**8,836,836**	**$0**	**0.0%**	**$437,608**	**14.50%**	$437,608	5.21%
SVDF B--Sales Service	$0	$4,218,512	$4,218,512	$1,403,193	$289,660	$1,692,853	$0	$5,911,365	$82,080	$5,993,445	$0	0.0%	$293,644	16.54%	$293,644	5.15%
SVDF B--Transport	$0	$0	$0	$285,573	$58,951	$344,524	$0	$344,524	$27,702	$372,226	$0	0.0%	$59,761	16.06%	$59,761	19.13%
Total SVDF B (Svc + Trans)	**$0**	**$4,218,512**	**$4,218,512**	**$1,688,766**	**$348,611**	**$2,037,377**	**$0**	**$6,255,889**	**$109,782**	**$6,365,671**	**$0**	**0.0%**	**$353,405**	**16.46%**	$353,405	5.88%
Large Volume DF--Sales Service	$0	$8,311,210	$8,311,210	$1,473,013	$570,681	$2,043,694	$0	$10,354,904	$954,180	$11,309,084	$184,680	24.0%	$606,991	20.25%	$606,991	5.67%
Large Volume DF--Market Rate	$0	$7,706,311	$7,706,311	$1,192,891	$529,146	$1,722,037	$0	$9,428,348	$248,891	$9,677,239	$32,400	15.0%	$240,656	12.21%	$240,656	2.55%
Large Volume DF Sales Service	$0	$16,017,521	$16,017,521	$2,665,904	$1,099,827	$3,765,731	$0	$19,783,252	$1,203,071	$20,986,322	$217,080	22.0%	$847,647	17.06%	$847,647	4.21%
Large Volume DF--Transport	$0	$0	$0	$3,192,342	$1,023,963	$4,216,305	$0	$4,216,305	$737,352	$4,953,657	$134,064	22.2%	$1,000,482	20.20%	$1,000,482	25.31%
Large Volume DF Transport--MR	$0	$0	$0	$3,404,968	$1,201,202	$4,606,170	$0	$4,606,170	$241,102	$4,847,272	$43,200	21.8%	$522,883	10.79%	$522,883	12.09%
Large Volume DF Transport Service	$0	$0	$0	$6,597,310	$2,225,165	$8,822,475	$0	$8,822,475	$978,454	$9,800,929	$177,264	22.1%	$1,523,365	15.54%	$1,523,365	18.40%
Total Lg Vol DF Sales Service & Transport	**$0**	**$16,017,521**	**$16,017,521**	**$9,263,214**	**$3,324,992**	**$12,588,206**	**$0**	**$28,605,727**	**$2,181,525**	**$30,787,252**	**$394,344**	**22.1%**	**$2,371,012**	**16.05%**	**$2,371,012**	**8.34%**
Total System Results	**$167,468,900**	**$610,377,614**	**$777,846,514**	**$342,742,324**	**$46,119,614**	**$388,861,938**	**$0**	**$1,166,708,452**	**$142,376,183**	**$1,309,084,635**	**$1,812,738**	**1.3%**	**$58,353,407**	**10.98%**	**$58,353,407**	**4.67%**

Difference

Revenue

Rate Class	Customers	Sales	DIFFERENCE Demand	Commodity	Cost of Gas	Delivery Charge	CIP	Total Delivery	GAP	Total Billing Rate	Fixed Charge	Total Revenue
Residential			$0	$0	$0	$22,040,772	$5,530,887	$27,571,658	$0	$27,571,658	$0	$27,571,658
Comm/Ind A			$0	$0	$0	$322,719	$160,743	$483,462	$0	$483,462	$666,286	$1,149,748
Comm/Ind B			$0	$0	$0	$2,567,804	$452,490	$3,020,295	$0	$3,020,295	$503,704	$3,523,999
Comm/Ind C - Sales			$0	$0	$0	$18,036,382	$2,973,697	$21,010,079	$0	$21,010,079	$0	$21,010,079
Comm/Ind C - Transport			$0	$0	$0	$372,446	$61,406	$433,852	$0	$433,852	$0	$433,852
Small Firm			**$0**	**$0**	**$0**	**$43,340,123**	**$9,179,223**	**$52,519,346**	**$0**	**$52,519,346**	**$1,169,990**	**$53,689,336**
Large Volume Firm-Sales Service			$0	$0	$0	$191,826	$86,181	$278,007	$0	$278,007	$90,003	$368,010
Large Volume Firm -Trans -MR			$0	$0	$0	$601,763	$373,872	$975,634	$0	$975,634	$158,402	$1,134,036
Large Volume Firm (Sales+Trans)			**$0**	**$0**	**$0**	**$793,589**	**$460,053**	**$1,253,642**	**$0**	**$1,253,642**	**$248,404**	**$1,502,046**
SVDF A--Sales Service			$0	$0	$0	$317,991	$91,661	$409,653	$0	$409,653	$0	$409,653
SVDF A--Transport			$0	$0	$0	$27,955	$0	$27,955	$0	$27,955	$0	$27,955
Total SVDF A (Svc + Trans)			**$0**	**$0**	**$0**	**$345,947**	**$91,661**	**$437,608**	**$0**	**$437,608**	**$0**	**$437,608**
SVDF B--Sales Service			$0	$0	$0	$227,196	$66,448	$293,644	$0	$293,644	$0	$293,644
SVDF B--Transport			$0	$0	$0	$46,238	$13,523	$59,761	$0	$59,761	$0	$59,761
Total SVDF B (Svc + Trans)			**$0**	**$0**	**$0**	**$273,434**	**$79,972**	**$353,405**	**$0**	**$353,405**	**$0**	**$353,405**
Large Volume DF--Sales Service			$0	$0	$0	$291,396	$130,915	$422,311	$0	$422,311	$184,680	$606,991
Large Volume DF--Market Rate			$0	$0	$0	$86,870	$121,387	$208,256	$0	$208,256	$32,400	$240,656
Large Volume DF Sales Service			**$0**	**$0**	**$0**	**$378,266**	**$252,301**	**$630,567**	**$0**	**$630,567**	**$217,080**	**$847,647**
Large Volume DF--Transport			$0	$0	$0	$631,520	$234,898	$866,418	$0	$866,418	$134,064	$1,000,482
Large Volume DF Transport--MR			$0	$0	$0	$204,126	$275,557	$479,683	$0	$479,683	$43,200	$522,883
Large Volume DF Transport Service			**$0**	**$0**	**$0**	**$835,646**	**$510,455**	**$1,346,101**	**$0**	**$1,346,101**	**$177,264**	**$1,523,365**
Total Lg Vol DF Sales Service & Transport			$0	$0	$0	$1,213,912	$762,756	$1,976,668	$0	$1,976,668	$394,344	$2,371,012
Total System Results			**$0**	**$0**	**$0**	**$45,967,005**	**$10,573,664**	**$56,540,669**	**$0**	**$56,540,669**	**$1,812,738**	**$58,353,407**

LVI Curtailment Test year -

G-008/GR-23-____

Allocation of Curtailment to Rate Classes:

Curtailment	Jan-22	Feb-22	Mar-22	Nov-22	Dec-22	Total
Small Dual Fuel - B Sales Service	0	(77,226)	0	0	0	(77,226)
Large Dual Fuel - Sales Service (Std)	(3,865)	(121,637)		0		(125,502)
Large Dual Fuel - Sales Service Market Rate	(935)	(31,603)		0		(32,538)
Large Dual Fuel - Transport (Std) - pay CIP	(7,508)	(236,030)		0		(243,538)
Large Dual Fuel - Transport Market Rate	(7,001)	(205,946)		0		(212,947)
Large Volume Dual Fuel Total	(19,309)	(595,216)	0	0	0	(691,751)

0

LVI Curtailment 2020 (Decatherms)

	Jan	Feb	Mar	Nov	Dec		Total
2022 Curtailment	84,640	23,770	2,430	0	69,194	(+)	180,034
2024 Curtail Est.	19,309	595,217	0	0	0	(-)	614,526
2024 Sales Adj.	**65,331**	**(571,447)**	**2,430**	**0**	**69,194**		**(434,492)**

SVI Curtailment 2022

	Jan	Feb	Mar	Nov	Dec		Total
2022 Curtailment	0	0	0	0	0	(-)	0
2024 Curtail Est.	0	77,226	0	0	0		77,226
2024 Sales Adj.	**0**	**(77,226)**	**0**	**0**	**0**		**(77,226)**

- ignore for Rate Case - too small

		Jan-22	Feb-22	Mar-22	Nov-22	Dec-22
NON_PUBLIC DETAIL						
Volumes: LVDF before curtail						
Sales(DT)	Standard Rate	660,013	589,403	493,395	447,049	551,693
Sales(DT)	Market Rate	159,634	153,137	141,484	134,770	140,427
Sales(DT)	MR - CIP Exempt	0	0	0	0	0
Trans (DT)	**Std -**	979,204	883,749	792,530	756,638	856,017
Trans (DT)	**Std- CIP Exempt**	302,972	259,957	191,651	166,916	253,081
Trans (DT)	**MR**	470,210	414,270	374,764	345,743	434,594
Trans (DT)	MR - CIP Exempt	725,467	583,663	529,974	437,217	637,152
Sales(DT)	**total**	**819,647**	**742,540**	**634,880**	**581,819**	**692,121**
Trans (DT)	**total**	**2,477,852**	**2,141,638**	**1,888,919**	**1,706,513**	**2,180,844**

FILE NAME: Sch E-2 TY_10YR WN_REVENUE FC.xlsx
TAB: "Volumetric Per Unit Calc"

CenterPoint Energy steps to get billing determinants under proposed revenue increase:

1. Updated Bills and Sales volumes to match Fitzpatrick Forecast (Small volume/regression)
   a. Updated LV forecast - M. Dean
2. Modelled revenue under present rates – broken out by components
   - Basic charges
   - Transportation Revenue - fixed/market rate/ extra basic charge
   - Current Market rate / minimum volume revenue / demand revenue
   - Per-unit volumetric rates – standard and market rate
   - Current revenue (without Cost of gas)
     - Basic charge and transportation charge revenue
     - Volumetric revenue (standard / market / CCRC / GAP)
   - Update Cost of Gas based on updated sales revenue
   - Update total revenue under present rates

3. Spread requested increase to rate classes – (lines 22 – 34; columns ab - ae)

col ab	- start with the current revenue by class.
col ac	- add the total revenue increase to the total current revenue AND
col ac	- allocate total new non-gas revenue to class based on the Commission approved revenue apportionment. (Briefing papers, Vol 5, page 2)
col ad	- Commission approved revenue apportionment. (Briefing papers, Vol 5, page 2)
col ae	- calculate the increase per class by subtracting current non-gas revenue by class from the increased total non-gas revenue by class

4. Modelling assumptions (lines 37-45; columns aj thru ao)
   a) All classes are assigned a portion of the Revenue Increase based on Apportionment set by PUC
   b) Market Rate / Minimum volume / demand charges will not change [(columns (h),(ay) and (az)]
   c) Revenue from MR /min vol / demand charges subtracted from total non-gas revenue before determining new standard volumetric rates.
   d) Basic charge and transport revenue is determined before volumetric revenue (columns au and av)

5. Calculate the per-unit volumetric rate [lines 51 – 60, columns (at) thru (bf)]

   The per-unit volumetric charge is "backed into" by taking the proposed revenue, backing out the updated basic charges, CCRC charges, GAP charges, Transportation charges, other Market Rate charges. See column (ba) for the result.
   Divide the revenue to be collected thru standard volumetric rates by volumes – see column (bc).
   Column (bd) displays the result plus the CCRC rate, which will be the total tariffed delivery charge.

Calculation of Commodity Cost of Gas Recovery Rate
Test Year - Twelve Months Ending December 31, 2022

Line No.	Description	Test Year Sales	Recovery Rate	Commodity Costs
	(a)	(b)	(c)	(d)
	Sales Service			
1	Residential	75,250,159	$4.6662	$351,132,292
2	Comm/Ind Firm A	2,186,984	4.6662	$10,204,905
3	Comm/Ind Firm B	6,156,328	4.6662	$28,726,658
4	Comm/Ind Firm C	40,458,461	4.6662	$188,787,270
	Large General Firm	1,172,532	4.6662	$5,471,270
5	Small Dual Fuel A - Sales Service	1,247,093	4.6662	$5,819,186
6	Small Dual Fuel B - Sales Service	904,057	4.6662	$4,218,512
7	Large Volume Dual Fuel Sales Servic	3,432,669	4.6662	$16,017,521
8				
9	TOTAL - Sales service	130,808,284	4.6662	$ 610,377,614

b) Compliance filing in G-008/GR-15-424, Schedule A-2c
c) Recovery rate - based on compliance filing in Docket No. G-008/MR-15-728
d) Column (b) x (c)

Total Number of Customers, the Customer Charge, and Total Customer Charge Revenue by Customer Class

Line No.	Class	Customers 1/	Monthly Charge		Customer Charge Revenue
	(a)	(b)	(c)		(d)
1	Residential	850,464	$9.50		$96,952,868
2	Comm Firm A	27,762	$17.00		$5,663,431
3	Comm/Ind Firm B	20,988	$28.00		$7,051,856
4	Comm/Ind Firm C - Sales Service	22,096	$65.00		$17,234,750
5	Comm/Ind Firm C - Transport	413	$165.00		$817,740
6	Large General Firm Sales Service	25	$1,550.00		$465,000
7	Large Firm Transport	44	$1,650.00	*	$871,200
8	Total Firm	921,791			129,056,845
9					
10	Small Dual Fuel A-Sales	277	$80.00		$265,574
11	Small Dual Fuel A-Transport	24	$180.00		$52,531
12	Small Dual Fuel B - Sales	55	$125.00		$82,080
13	Small Dual Fuel B - Transport	10	$225.00		$27,702
14	Total Small Dual Fuel	366			427,888
15					
16	Lrg Vol Dual Fuel - Sales	60	$1,550.00		$1,121,580
17	Lrg Vol Dual Fuel - Transport	49	$1,650.00		$974,952
18					
19	Total Large	110			2,096,532
20					
21	TOTAL	922,267			$131,581,264
22					
23					

1/ Annual number of Customer Bills divided by 12, rounded to the nearest whole number

Summary of Test Year Operating Revenues
Under Proposed Rates

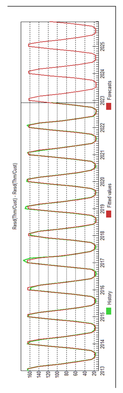
Line No.	Class (a)	Total Test Year Revenue @ Present Rates (b)	Total Revenue Responsibility in ($000) (c)
1	Residential	$760,313	$787,885
2	Comm Firm A	26,441	27,591
3	Comm/Ind Firm B	58,167	61,691
4	Comm/Ind Firm C - Sales Service	334,757	355,767
5	Comm/Ind Firm C - Transport	2,357	2,791
6	Large General Firm Sales Service	8,807	9,175
7	Large Firm Transport	17,062	18,196
8	Small Dual Fuel A - Sales Service	8,164	8,574
9	Small Dual Fuel A - Transport	235	263
10	Small Dual Fuel B - Sales Service	5,700	5,993
11	Small Dual Fuel B - Transport	312	372
12	Large Volume - Dual Fuel Sales Service	20,139	20,986
13	Large Volume - Dual Fuel Transport	8,278	9,801
14			
15	TOTAL	$1,250,731	$1,309,085
16			
17	Other		$1,387
18	Late Payment Charges		$3,575
19	Rounding		$1
20			
21	Total	$1,250,731	$1,314,048

ADJUSTMENT OF TEST YEAR BASE RATE TO FINAL BASE RATE

Line No.	Description (a)	TEST YEAR Base Rate (b)	Adjustment (c)	Proposed Base Rate (d)
1	**FIRM: SALES SERVICE**			
2	Residential			
3	Basic Charge	$9.50	$0.00	$9.50
4	Delivery Charge 1/	0.28093	$0.03664	0.31757
5	GAP Charge	0.00000	$0.00000	0.00000
6	Cost of Gas	0.60061	$0.00000	0.60061
7	Total Rate (per therm)	0.88154	$0.03664	0.91818
8				
9	Commercial A			
10	Basic Charge	$15.00	$2.00	$17.00
11	Delivery Charge 1/	0.37992	$0.02211	0.40203
12	GAP Charge	0.00000	$0.00000	0.00000
13	Cost of Gas	0.60061	$0.00000	0.60061
14	Total Rate (per therm)	0.98053	$0.02211	1.00264
15				
16	Commercial/Industrial B			
17	Basic Charge	$26.00	$2.00	$28.00
18	Delivery Charge 1/	0.23786	$0.04906	0.28692
19	GAP Charge	0.00000	$0.00000	0.00000
20	Cost of Gas	0.60061	$0.00000	0.60061
21	Total Rate (per therm)	0.83847	$0.04906	0.88753
22				
23	Commercial/Industrial C			
24	Basic Charge	$65.00	0.00	$65.00
25	Delivery Charge 1/	0.18420	$0.05193	0.23613
27	GAP Charge	0.00000	$0.00000	0.00000
28	Cost of Gas	0.60061	$0.00000	0.60061
29	Total Rate (per therm)	0.78481	$0.05193	0.83674
30				
31	Large General Service			
32	Basic Charge	$1,250.00	$300.00	$1,550.00
33	Demand Charge (per unit of Peak Day Demand)			
34	Delivery Charge	0.63303	$0.00000	0.63303
35	Cost of Gas	1.23480	$0.00000	1.23480
36	Total Demand(per therm Peak Demand)	1.86783	$0.00000	1.86783
37				
38	Commodity Charge (Per Therm usage)			
39	Delivery Charge 1/	0.06634	$0.01636	0.08270
40	GAP Charge	0.00000	$0.00000	0.00000
41	Cost of Gas	0.46662	$0.00000	0.46662
42	Total Commodity (per therm)	0.53296	$0.01636	0.54932
43				
44	1/ Delivery charge Includes CCRC, does not include CCRA			

ADJUSTMENT OF TEST YEAR BASE RATE TO FINAL BASE RATE

Line No.	Description (a)	TEST YEAR Base Rate (b)	Adjustment (c)	FINAL Base Rate (d)
1	**DUAL FUEL: SALES SERVICE**			
2	Small Volume Dual Fuel-A			
3	Basic Charge	$80.00	0.00	$80.00
4	Delivery Charge 1/	0.16672	$0.03285	0.19957
5	Cost of Gas	0.46662	$0.00000	0.46662
6	Total Rate (per therm)	0.63334	$0.03285	0.66619
7				
8	Small Volume Dual Fuel-B			
9	Basic Charge	$125.00	0.00	$125.00
10	Delivery Charge 1/	0.15477	$0.03248	0.18725
11	Cost of Gas	0.46662	$0.00000	0.46662
12	Total Rate (per therm)	0.62139	$0.03248	0.65387
13				
14	Large Volume Dual Fuel			
15	Basic Charge	$1,250.00	300.00	$1,550.00
16	Delivery Charge 1/	0.09103	$0.02371	0.11474
17	Cost of Gas	0.46662	$0.00000	0.46662
18	Total Rate	0.55765	$0.02371	0.58136
19				
20	**TRANSPORTATION SERVICE**			
21	Small Firm - Commercial/Industrial C			
22	Basic Charge	$165.00	$0.00	$165.00
23	Delivery Charge 1/	0.18420	$0.05193	0.23613
24	GAP Charge	0.00462	($0.00462)	0.00000
25	Total Rate (per therm)	0.15891	$0.07722	0.23613
26				
27	Large Volume Firm Transport			
28	Basic Charge	$1,350.00	$300.00	$1,650.00
29				
30	Demand Delivery Chrg (Peak Day)	0.63303	$0.00000	0.63303
31				
32	Commodity Delivery Chrg	0.06634	$0.01636	0.08270
33	GAP Charge	0.00000	$0.00000	0.00000
34	Total Rate (per therm)	$0.06634	$0.01636	$0.08270
35				
36	Small Volume Dual Fuel-A			
37	Basic Charge	$180.00	$0.00	$180.00
38	Delivery Charge (per Therm) 1/	0.16672	$0.02550	0.19222
39				
40	Small Volume Dual Fuel-B			
41	Basic Charge	$225.00	$0.00	$225.00
42	Delivery Charge (per Therm) 1/	0.15477	$0.03248	0.18725
43				
44	Large Volume Dual Fuel			
45	Basic Charge	$1,350.00	$300.00	$1,650.00
46	Delivery Charge (per Therm) 1/	0.09103	$0.02371	0.11474
47				
48	1/ Delivery charge Includes CCRC, does not include CCRA			



Exercise Report for Real Estate Data

Dataset(s): Real Estate Data

Model Details

Dynamic regression

Regressors: Lot Size, Bedrooms, Age, Garage, Pool, Year Sold, Distance to Downtown, Lot Size(-1), Sale Price(-1)

Term	Coefficient	Normalized
y_0	146.1	0.0562
y_1	723.5	0.2783
y_2	1523	0.5858
y_3	2174	0.8363
y_4	2600	1.000
y_5	2519	0.9688
y_6	2187	0.8412
y_7	1531	0.5889
y_8	737.1	0.2835
y_9	147.3	0.0567
y_{10}	2.452	0.0009
y_{11}	0.0123	0.0000
y_{12}	0.0000	0.0000
y_{13}	0.0000	0.0000
y_{14}	0.0000	0.0000
y_{15}	0.0000	0.0000
y_{16}	0.0000	0.0000
y_{17}	0.0000	0.0000
y_{18}	0.0000	0.0000
y_{19}	0.0000	0.0000
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y_{25}	0.0000	0.0000
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y_{27}	0.0000	0.0000
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y_{29}	0.0000	0.0000
y_{30}	0.0000	0.0000
y_{31}	0.0000	0.0000
y_{32}	0.0000	0.0000
y_{33}	0.0000	0.0000
y_{34}	0.0000	0.0000
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y_{36}	0.0000	0.0000
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y_{195}	0.0000	0.0000
y_{196}	0.0000	0.0000
y_{197}	0.0000	0.0000
y_{198}	0.0000	0.0000
y_{199}	0.0000	0.0000
y_{200}	0.0000	0.0000

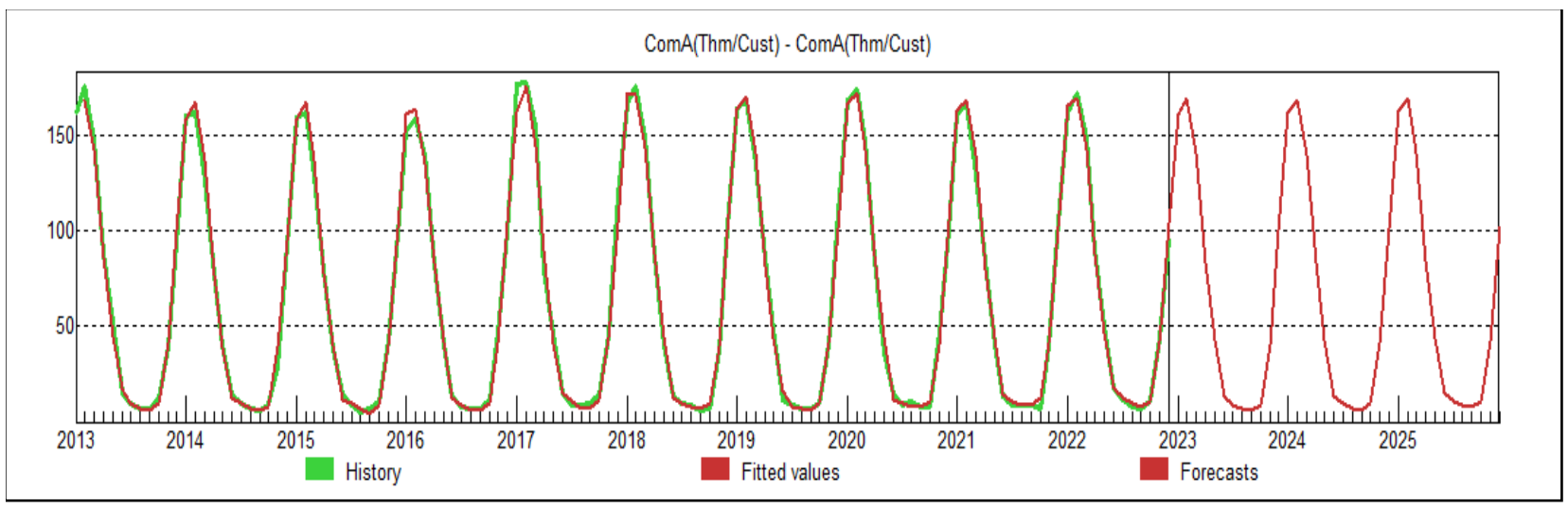
Model regression error weight/bias:

Model Fit and Validation

Sample size	175	No. parameters	12
Total error	74.24	No. lags	24
Fit	1.56	Log-likelihood	24.1414E+03
Sigma	1.56	Sigma(Fit)	26.1
AIC	3.1	BIC	3.37
AICc	3.1	MAPE	1.01
R^2	0.63	MAE	1.21

Variable Identification Test Summary

Test Error	Percentile
1.326	0.7923
1.326	0.7923
0.6812	0.4069
0.6812	0.4069
0.4453	0.2659
0.4453	0.2659
0.4453	0.2659



Forecast Report for ComA(Thm/Cust)

Description: ComA(Thm/Cust)

Model Details

Dynamic regression
Regression(10 regressors, 0 lagged errors)

Term	Coefficient	Normalized	Elasticity	Std. Error	t-Statistic	Percentile
M1	111.1	0.4864	0.1289	2.256	49.26	1
M2	87.87	0.4036	0.1132	3.232	27.19	1
M3	56.31	0.2586	0.07257	3.339	16.86	1
M4	13.41	0.06161	0.01729	2.828	4.744	1
M6	-9.554	-0.04388	-0.01231	1.589	-6.012	1
M10	3.553	0.01632	0.004578	1.592	2.231	0.9723
M11	33	0.1516	0.04253	1.579	20.91	1
M12	78.64	0.3612	0.1013	1.577	49.85	1
2QL-MS-Housing St	0.2299	0.009998	0.04797	0.06148	3.74	0.9997
ComA(Thm/Cust)[-1	0.4798	0.4845	0.4839	0.02053	23.38	1

Within-Sample Statistics

Sample size	119	No. parameters	10
Mean	65.2	Std. deviation	60.66
R-square	1	Adj. R-square	0.99
Durbin-Watson	2.09	Ljung-Box(18)	20.8 P=0.71
Forecast error	4.43	BIC	5.18
MAPE	8.93	SMAPE	8.7
RMSE	4.24	MAD	3.01
MAD/Mean Ratio	0.05		

Variable Specification Test Battery

Term	Test Value	Percentile
M5	0.003623	0.048
M7	0.4749	0.5093
M8	0.0685	0.2065
M9	0.1497	0.3012
2018	0.3334	0.4363
2018Trend	0.1543	0.3055
2018Q-Trend	0.1344	0.2861
2018A-Trend	0.07524	0.2162
2QL-MS-Net Migration	1.679	0.805
2QL-MS-Population	0.00361	0.04791
2QL-MS-Housing Starts-Total	0.6854	0.5923
2QL-MS-Housing Starts-Multi-F	0.6854	0.5923
2QL-MS-Households	0.01011	0.0801
2QL-MS-Employment-Total Nonfarm	0.02892	0.135

2QL-MS-Employment-Non-Manufacturing	0.03377	0.1458
2QL-MS-Employment-Service Providing	0.04482	0.1677
2QL-MS-Employment-Manufacturing	0.003598	0.04783
2QL-MS-Employment-Wholesale Trade	0.000782	0.02231
2QL-MS-Employment-Retail Trade	0.03876	0.1561
2QL-MS-LaborForce	0.001189	0.02751
2QL-MS-LaborForce-PartRate	0.000358	0.01508
2QL-MS-Unemployment Rate	0.5387	0.537
2QL-MS-Number Unemployed	0.5679	0.5489
2QL-MS-R-Median Household Income	0	0.000307
2QL-MS-R-Personal Income	0.0326	0.1433
2QL-MS-R-Disp-Personal Income	0.02824	0.1334
2QL-MS-R-Gross State Product	0.000064	0.006385
2QL-MS-R-GSP Manufacturing	0.01813	0.1071
2QL-MS-R-GSP Wholesale Trade	0.002634	0.04093
2QL-MS-R-GSP Retail Trade	0.007419	0.06864
2QL-MS-R-GSP Estate, Rental, Leasing	0.08438	0.2286
2QL-MS-Ind Prod Index Total	0.003258	0.04552
2QL-MS-New Passenger Car Registratio	0.03498	0.1484
2QL-MS-R-Retail Sales	0.1052	0.2543
2QL-MS-R-Ind Prod Index Total	0.005887	0.06116
2QL-MP-Population	0.004587	0.054
2QL-MP-Housing Starts-Total	0.6965	0.5961
2QL-MP-Housing Starts-Single-F	0.2086	0.3521
2QL-MP-Housing Starts-Multi-F	1.096	0.7048
2QL-MP-Households	0.01084	0.08293
2QL-MP-Employment-Total Nonfarm	0.03458	0.1475
2QL-MP-Employment-Non-Manufacturing	0.04028	0.1591
2QL-MP-Employment-Service Providing	0.05561	0.1864
2QL-MP-Employment-Construction	0.003404	0.04652
2QL-MP-Employment-Manufacturing	0.002582	0.04053
2QL-MP-Employment-Wholesale Trade	0.00077	0.02214
2QL-MP-Employment-Retail	0.05629	0.1875
2QL-MP-Labor Force	0.002294	0.0382
2QL-MP-Labor Force-PartRate	0.000574	0.01911
2QL-MP-Unemployment Rate	0.8009	0.6292
2QL-MP-Number Unemployed	0.8694	0.6489
2QL-MP-R-Personal Income	0.007899	0.07082
2QL-MP-R-Per Capita Personal Income	0.00298	0.04354
2QL-MP-R-Disposable Personal Income	0.006376	0.06364
2QL-MP-R-Median Household Income	0.000262	0.01293
2QL-MP-R-Gross Metropolitan Product	0.000038	0.004887
M1[-1]	0	0
M2[-1]	0	0
M3[-1]	0	0
M4[-1]	0.003623	0.048
M6[-1]	0.4749	0.5093
M10[-1]	0	0
M11[-1]	0	0
2QL-MS-Housing Starts-Single-F[-1]	1.069	0.6987
_CONST	0.002768	0.04195
_TREND	0.06894	0.2071

Variable specification tests successful.

Dynamics Test Battery

Term	Test Value	Percentile
ComA(Thm/Cust)[-2]	0.4476	0.4965
ComA(Thm/Cust)[-3]	0.6	0.5614
ComA(Thm/Cust)[-4]	1.01	0.685
ComA(Thm/Cust)[-5]	1.894	0.8312
ComA(Thm/Cust)[-6]	1.626	0.7978
ComA(Thm/Cust)[-7]	1.012	0.6857
ComA(Thm/Cust)[-8]	0.9941	0.6813
ComA(Thm/Cust)[-9]	1.008	0.6846

ComA(Thm/Cust)[-10]	1.014	0.6861	
ComA(Thm/Cust)[-11]	1.188	0.7243	
ComA(Thm/Cust)[-12]	3.012	0.9174	
ComA(Thm/Cust)[-24]	2.6	0.8931	
_AUTO[-1]	1.002	0.6831	
_AUTO[-2]	2.178	0.86	
_AUTO[-3]	1.38	0.7598	
_AUTO[-4]	1.478	0.7759	
_AUTO[-5]	0.9784	0.6774	
_AUTO[-6]	1.431	0.7684	
_AUTO[-7]	1.049	0.6943	
_AUTO[-8]	1.063	0.6974	
_AUTO[-9]	1.312	0.748	
_AUTO[-10]	0.9762	0.6769	
_AUTO[-11]	3.182	0.9256	
_AUTO[-12]	4.118	0.9576	*
_AUTO[-24]	2.587	0.8922	

Percentile

Historic Data

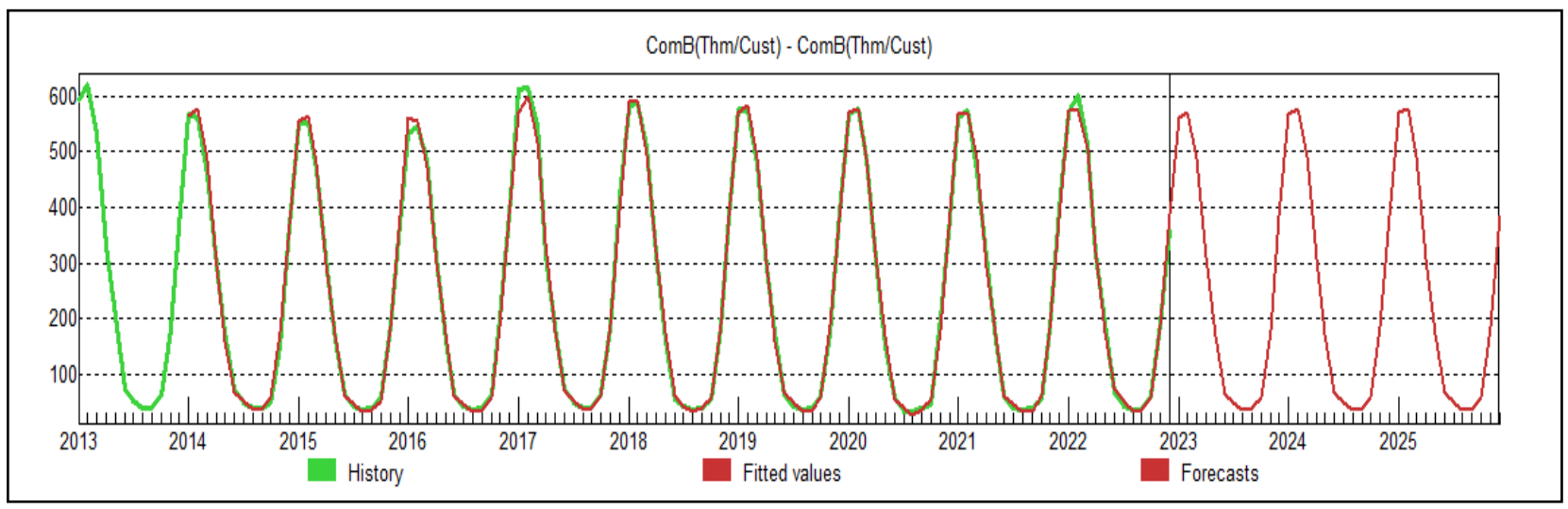
Date	Historic	Quarterly	Annual	Fitted	Quarterly	Annual
2013-Jan	162					
2013-Feb	176			168		
2013-Mar	147	485		143	311	
2013-Apr	89			86		
2013-May	52			45		
2013-Jun	15	156		18	149	
2013-Jul	10			10		
2013-Aug	7			7		
2013-Sep	7	24		6	23	
2013-Oct	12			10		
2013-Nov	39			41		
2013-Dec	93	145	809	100	151	633
2014-Jan	160			158		
2014-Feb	162			167		
2014-Mar	127	448		137	462	
2014-Apr	77			77		
2014-May	40			40		
2014-Jun	14	131		13	129	
2014-Jul	10			10		
2014-Aug	8			7		
2014-Sep	6	24		6	23	
2014-Oct	9			9		
2014-Nov	29			40		
2014-Dec	93	131	734	95	143	757
2015-Jan	159			158		
2015-Feb	162			167		
2015-Mar	129	450		137	462	
2015-Apr	79			78		
2015-May	38			41		
2015-Jun	14	131		11	130	
2015-Jul	9			10		
2015-Aug	5			7		
2015-Sep	7	21		5	21	
2015-Oct	11			9		
2015-Nov	42			41		
2015-Dec	99	151	754	101	151	764
2016-Jan	153			161		
2016-Feb	159			164		
2016-Mar	139	451		135	460	
2016-Apr	82			83		
2016-May	41			42		
2016-Jun	14	137		13	138	
2016-Jul	8			9		

2016-Aug	8			6		
2016-Sep	7	23		7	22	
2016-Oct	11			10		
2016-Nov	47			42		
2016-Dec	99	158	768	104	156	776
2017-Jan	176			162		
2017-Feb	178			175		
2017-Mar	154	509		144	482	
2017-Apr	80			90		
2017-May	46			41		
2017-Jun	16	142		16	147	
2017-Jul	9			11		
2017-Aug	9			8		
2017-Sep	10	27		8	26	
2017-Oct	15			12		
2017-Nov	45			44		
2017-Dec	118	178	856	104	159	814
2018-Jan	166			171		
2018-Feb	175			171		
2018-Mar	149	490		144	486	
2018-Apr	87			88		
2018-May	40			45		
2018-Jun	14	141		13	146	
2018-Jul	10			10		
2018-Aug	9			8		
2018-Sep	6	26		8	26	
2018-Oct	7			10		
2018-Nov	38			40		
2018-Dec	102	147	803	100	149	807
2019-Jan	164			163		
2019-Feb	168			170		
2019-Mar	135	467		140	474	
2019-Apr	85			82		
2019-May	48			44		
2019-Jun	12	145		17	143	
2019-Jul	9			9		
2019-Aug	7			7		
2019-Sep	7	23		6	22	
2019-Oct	10			10		
2019-Nov	40			41		
2019-Dec	109	160	795	101	152	791
2020-Jan	168			167		
2020-Feb	173			172		
2020-Mar	147	489		143	482	
2020-Apr	86			87		
2020-May	37			45		
2020-Jun	14	137		12	143	
2020-Jul	9			10		
2020-Aug	11			8		
2020-Sep	8	28		8	27	
2020-Oct	8			11		
2020-Nov	47			40		
2020-Dec	100	156	809	104	155	807
2021-Jan	161			162		
2021-Feb	167			168		
2021-Mar	130	457		140	470	
2021-Apr	83			80		
2021-May	41			44		
2021-Jun	14	138		14	138	
2021-Jul	9			11		
2021-Aug	9			9		
2021-Sep	9	27		9	29	
2021-Oct	8			13		
2021-Nov	40			41		
2021-Dec	105	153	775	102	156	793
2022-Jan	162			165		

2022-Feb	172			169		
2022-Mar	148	482		142	477	
2022-Apr	90			88		
2022-May	50			47		
2022-Jun	18	158		18	153	
2022-Jul	12			13		
2022-Aug	8			10		
2022-Sep	7	27		8	31	
2022-Oct	11			11		
2022-Nov	44			43		
2022-Dec	96	151	817	104	157	819
Total	7921			7760		
Average	66			65		
Minimum	5			5		
Maximum	178			175		

Forecast Data

Date	**2.5 Lower**	**Forecast**	**Quarterly**	**Annual**	**97.5 Upper**	**Stat. forecast**
2023-Jan	153	161			169	161
2023-Feb	160	169			178	169
2023-Mar	131	141	470		150	141
2023-Apr	74	84			93	84
2023-May	34	43			52	43
2023-Jun	4	14	141		23	14
2023-Jul	0	9			19	9
2023-Aug	0	7			17	7
2023-Sep	0	6	23		16	6
2023-Oct	0	9			19	9
2023-Nov	31	40			50	40
2023-Dec	91	101	150	783	110	101
2024-Jan	153	162			171	162
2024-Feb	159	168			178	168
2024-Mar	130	140	470		149	140
2024-Apr	74	83			93	83
2024-May	33	43			52	43
2024-Jun	4	14	140		23	14
2024-Jul	0	10			19	10
2024-Aug	0	8			17	8
2024-Sep	0	7	24		16	7
2024-Oct	0	10			19	10
2024-Nov	31	41			50	41
2024-Dec	92	101	152	786	111	101
2025-Jan	154	163			172	163
2025-Feb	160	169			179	169
2025-Mar	131	141	473		150	141
2025-Apr	75	84			94	84
2025-May	34	44			53	44
2025-Jun	6	15	143		25	15
2025-Jul	1	11			20	11
2025-Aug	0	9			18	9
2025-Sep	0	8	27		17	8
2025-Oct	1	11			20	11
2025-Nov	32	42			51	42
2025-Dec	93	102	155	799	112	102
Total		2368				2368
Average		66				66
Minimum		6				6
Maximum		169				169



Forecast Report for ComB(Thm/Cust)

Description: ComB(Thm/Cust)

Model Details

Dynamic regression
Regression(10 regressors, 1 lagged errors)

Term	Coefficient	Normalized	Elasticity	Std. Error	t-Statistic	Percentile
M1	426.3	0.5749	0.1456	17.08	24.95	1
M2	425.4	0.5737	0.1453	16.52	25.74	1
M3	349.1	0.4708	0.1192	14.11	24.73	1
M4	189.6	0.2557	0.06475	11.02	17.2	1
M5	79.56	0.1073	0.02717	7.117	11.18	1
M11	91.28	0.1231	0.03117	9.095	10.04	1
M12	257.9	0.3479	0.08807	15.66	16.47	1
ML-MP-Employmen	0.01119	0.003159	0.08993	0.002831	3.955	0.9999
ComB(Thm/Cust)[-1	0.1712	0.1716	0.1717	0.03296	5.196	1
ComB(Thm/Cust)[-2	0.1172	0.1172	0.1172	0.02115	5.54	1
_AUTO[- 1]	0.5014			0.08889	5.641	1

Within-Sample Statistics

Sample size	108	No. parameters	11
Mean	243.99	Std. deviation	205.86
R-square	1	Adj. R-square	1
Durbin-Watson	2.04	Ljung-Box(18)	18.8 P=0.59
Forecast error	12.11	BIC	14.57
MAPE	5.52	SMAPE	5.48
RMSE	11.48	MAD	8.2
MAD/Mean Ratio	0.03		

Variable Specification Test Battery

Term	Test Value	Percentile
M6	1.298	0.7455
M7	1.923	0.8345
M8	0.1972	0.343
M9	0.456	0.5005
M10	0.3883	0.4668
2018	0.4497	0.4975
2018Trend	1.213	0.7292
2018Q-Trend	0.9885	0.6799
2018A-Trend	0.7632	0.6177
ML-MS-Net Migration	0.5885	0.557
ML-MS-Population	0.2778	0.4018
ML-MS-Housing Starts-Total	2.439	0.8816
ML-MS-Housing Starts-Single-F	3.116	0.9225

ML-MS-Housing Starts-Multi-F	1.358	0.7561
ML-MS-Households	0.3753	0.4599
ML-MS-Employment-Total Nonfarm	0.7059	0.5992
ML-MS-Employment-Non-Manufacturing	0.1973	0.3431
ML-MS-Employment-Service Providing	0.1453	0.2969
ML-MS-Employment-Manufacturing	1.641	0.7999
ML-MS-Employment-Wholesale Trade	2.19	0.8611
ML-MS-Employment-Retail Trade	0.000087	0.007462
ML-MS-LaborForce	0.5845	0.5554
ML-MS-LaborForce-PartRate	0.8739	0.6501
ML-MS-Unemployment Rate	0.3075	0.4208
ML-MS-Number Unemployed	0.2846	0.4063
ML-MS-R-Median Household Income	0.000022	0.003781
ML-MS-R-Personal Income	0.001451	0.03039
ML-MS-R-Per Capita Personal Income	0.004206	0.05171
ML-MS-R-Disp-Personal Income	0.005556	0.05942
ML-MS-R-Gross State Product	0.01693	0.1035
ML-MS-R-GSP Manufacturing	0.0084	0.07303
ML-MS-R-GSP Wholesale Trade	0.161	0.3118
ML-MS-R-GSP Retail Trade	0.5022	0.5215
ML-MS-R-GSP Estate, Rental, Leasing	2.796	0.9055
ML-MS-Ind Prod Index Total	0.8971	0.6564
ML-MS-New Passenger Car Registration	0.6989	0.5969
ML-MS-R-Ind Prod Index Total	0.349	0.4453
ML-MP-Population	0.1811	0.3296
ML-MP-Housing Starts-Total	1.513	0.7813
ML-MP-Housing Starts-Single-F	1.714	0.8095
ML-MP-Housing Starts-Multi-F	0.9267	0.6643
ML-MP-Households	0.2012	0.3463
ML-MP-Employment-Non-Manufacturing	0.5307	0.5337
ML-MP-Employment-Service Providing P	0.8845	0.653
ML-MP-Employment-Construction	0.09936	0.2474
ML-MP-Employment-Manufacturing	0.5307	0.5337
ML-MP-Employment-Wholesale Trade	1.49	0.7778
ML-MP-Employment-Retail	0.05121	0.179
ML-MP-Labor Force	0.4131	0.4796
ML-MP-Labor Force-PartRate	0.9349	0.6664
ML-MP-Unemployment Rate	0.3025	0.4177
ML-MP-Number Unemployed	0.2713	0.3976
ML-MP-R-Personal Income	0.001204	0.02768
ML-MP-R-Per Capita Personal Income	0.01085	0.08294
ML-MP-R-Disposable Personal Income	0.006085	0.06217
ML-MP-R-Median Household Income	0.01389	0.09383
ML-MP-R-Gross Metropolitan Product	0.08361	0.2275
M1[-1]	0	0.000017
M5[-1]	1.298	0.7455
ML-MP-Employment-Total Nonfarm[-1]	1.647	0.8007
_CONST	0.6283	0.572
_TREND	0.171	0.3208

Variable specification tests successful.

Dynamics Test Battery

Term	Test Value	Percentile
ComB(Thm/Cust)[-1]	0.007882	0.07074
ComB(Thm/Cust)[-3]	0.375	0.4597
ComB(Thm/Cust)[-4]	1.539	0.7852
ComB(Thm/Cust)[-5]	0.843	0.6414
ComB(Thm/Cust)[-6]	1.445	0.7707
ComB(Thm/Cust)[-7]	0.5975	0.5605
ComB(Thm/Cust)[-8]	1.457	0.7726
ComB(Thm/Cust)[-9]	0.7966	0.6279
ComB(Thm/Cust)[-10]	0.0587	0.1914
ComB(Thm/Cust)[-12]	3.407	0.9351
ComB(Thm/Cust)[-24]	2.909	0.9119

_AUTO[-2]	1.056	0.6959
_AUTO[-3]	0.4764	0.5099
_AUTO[-4]	0.8974	0.6565
_AUTO[-5]	0.8136	0.6329
_AUTO[-6]	1.373	0.7588
_AUTO[-7]	1.12	0.7102
_AUTO[-8]	1.304	0.7465
_AUTO[-9]	1.288	0.7435
_AUTO[-10]	1.156	0.7177
_AUTO[-11]	0.9913	0.6806
_AUTO[-12]	2.624	0.8947
_AUTO[-24]	3.5	0.9386
Common factor test Chi Square(4)	5.213	0.7339

Percentile

Historic Data

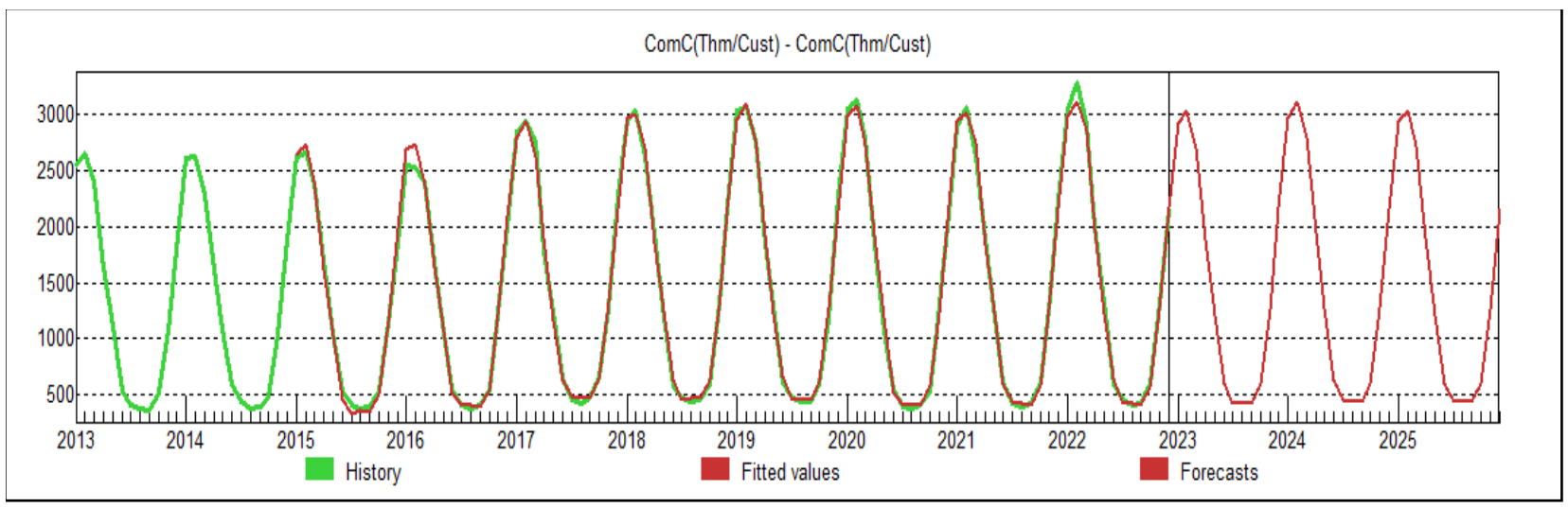
Date	Historic	Quarterly	Annual	Fitted	Quarterly	Annual
2013-Jan	592					
2013-Feb	623					
2013-Mar	531	1747				
2013-Apr	332					
2013-May	203					
2013-Jun	75	609				
2013-Jul	51					
2013-Aug	41					
2013-Sep	39	131				
2013-Oct	62					
2013-Nov	182					
2013-Dec	365	609	3096			
2014-Jan	568			564		
2014-Feb	561			577		
2014-Mar	460	1590		484	1625	
2014-Apr	296			295		
2014-May	175			160		
2014-Jun	74	545		69	523	
2014-Jul	48			53		
2014-Aug	40			36		
2014-Sep	39	128		39	129	
2014-Oct	50			58		
2014-Nov	151			176		
2014-Dec	368	568	2831	368	602	2878
2015-Jan	552			554		
2015-Feb	553			564		
2015-Mar	471	1576		478	1596	
2015-Apr	307			298		
2015-May	164			170		
2015-Jun	65	536		63	531	
2015-Jul	44			47		
2015-Aug	36			34		
2015-Sep	39	119		36	116	
2015-Oct	59			54		
2015-Nov	187			184		
2015-Dec	372	618	2849	384	622	2866
2016-Jan	534			560		
2016-Feb	545			556		
2016-Mar	485	1564		473	1589	
2016-Apr	310			303		
2016-May	165			173		
2016-Jun	65	539		63	539	
2016-Jul	43			47		
2016-Aug	35			34		
2016-Sep	41	119		37	118	
2016-Oct	63			60		
2016-Nov	202			184		

2016-Dec	387	652	2874	389	633	2879
2017-Jan	611			569		
2017-Feb	615			599		
2017-Mar	547	1773		516	1684	
2017-Apr	313			338		
2017-May	185			178		
2017-Jun	74	572		70	586	
2017-Jul	51			54		
2017-Aug	39			38		
2017-Sep	42	132		40	132	
2017-Oct	67			63		
2017-Nov	185			188		
2017-Dec	419	671	3148	393	643	3045
2018-Jan	580			589		
2018-Feb	591			593		
2018-Mar	509	1679		493	1675	
2018-Apr	319			321		
2018-May	161			177		
2018-Jun	57	536		62	560	
2018-Jul	43			42		
2018-Aug	38			34		
2018-Sep	39	120		40	116	
2018-Oct	56			59		
2018-Nov	185			189		
2018-Dec	386	626	2961	384	631	2981
2019-Jan	577			571		
2019-Feb	573			583		
2019-Mar	479	1628		490	1644	
2019-Apr	293			299		
2019-May	178			161		
2019-Jun	66	536		69	530	
2019-Jul	43			51		
2019-Aug	37			34		
2019-Sep	39	120		37	122	
2019-Oct	63			60		
2019-Nov	174			187		
2019-Dec	391	628	2912	381	628	2924
2020-Jan	568			569		
2020-Feb	577			576		
2020-Mar	488	1634		489	1635	
2020-Apr	308			310		
2020-May	151			169		
2020-Jun	59	519		55	534	
2020-Jul	34			41		
2020-Aug	34			29		
2020-Sep	41	109		36	106	
2020-Oct	47			57		
2020-Nov	201			180		
2020-Dec	380	627	2889	390	627	2903
2021-Jan	560			569		
2021-Feb	574			570		
2021-Mar	465	1599		489	1627	
2021-Apr	313			292		
2021-May	163			170		
2021-Jun	63	539		63	526	
2021-Jul	41			46		
2021-Aug	35			33		
2021-Sep	39	116		34	113	
2021-Oct	57			63		
2021-Nov	182			181		
2021-Dec	396	635	2890	382	626	2892
2022-Jan	571			575		
2022-Feb	603			575		
2022-Mar	513	1687		506	1656	
2022-Apr	319			321		
2022-May	192			177		

2022-Jun	69	580		76	574	
2022-Jul	44			52		
2022-Aug	36			34		
2022-Sep	37	117		37	123	
2022-Oct	62			58		
2022-Nov	191			188		
2022-Dec	361	613	2996	388	633	2986
Total	29447			26354		
Average	245			244		
Minimum	34			29		
Maximum	623			599		

Forecast Data

Date	2.5 Lower	Forecast	Quarterly	Annual	97.5 Upper	Stat. forecast
2023-Jan	540	562			585	562
2023-Feb	547	572			597	572
2023-Mar	463	489	1623		516	489
2023-Apr	284	311			338	311
2023-May	144	171			198	171
2023-Jun	39	66	548		93	66
2023-Jul	22	49			76	49
2023-Aug	10	37			64	37
2023-Sep	12	39	124		66	39
2023-Oct	33	60			87	60
2023-Nov	153	180			207	180
2023-Dec	357	384	624	2919	411	384
2024-Jan	541	568			595	568
2024-Feb	549	577			604	577
2024-Mar	464	492	1636		519	492
2024-Apr	282	309			336	309
2024-May	144	171			199	171
2024-Jun	40	67	548		95	67
2024-Jul	22	49			76	49
2024-Aug	10	37			65	37
2024-Sep	11	39	125		66	39
2024-Oct	31	58			85	58
2024-Nov	157	184			212	184
2024-Dec	357	385	627	2936	412	385
2025-Jan	542	569			597	569
2025-Feb	550	577			605	577
2025-Mar	464	491	1638		519	491
2025-Apr	282	309			337	309
2025-May	144	171			199	171
2025-Jun	40	67	548		95	67
2025-Jul	22	49			77	49
2025-Aug	10	37			65	37
2025-Sep	11	39	125		66	39
2025-Oct	31	59			86	59
2025-Nov	157	185			212	185
2025-Dec	358	385	628	2940	413	385
Total		8795				8795
Average		244				244
Minimum		37				37
Maximum		577				577



Forecast Report for ComC(Thm/Cust)

Description: ComC(Thm/Cust)

Model Details

Dynamic regression
Regression(11 regressors, 2 lagged errors)

Term	Coefficient	Normalized	Elasticity	Std. Error	t-Statistic	Percentile
M1	2503	0.7106	0.1444	45.97	54.45	1
M2	2608	0.7406	0.1504	47.3	55.15	1
M3	2295	0.6515	0.1323	46.67	49.16	1
M4	1466	0.4163	0.08457	44.54	32.93	1
M5	784.7	0.2228	0.04526	40.27	19.49	1
M6	171.4	0.04865	0.009883	32.1	5.339	1
M10	156.4	0.04441	0.009022	32	4.888	1
M11	826.8	0.2347	0.04768	39.93	20.71	1
M12	1722	0.4888	0.09929	44.05	39.08	1
2018Trend	-12.62	-0.1424	-0.06058	3.096	-4.076	0.9999
ML-MP-Households	0.288	0.009792	0.283	0.02997	9.61	1
_AUTO[- 1]	0.4833			0.08553	5.651	1
_AUTO[-24]	0.2155			0.04743	4.543	1

Within-Sample Statistics

Sample size	96	No. parameters	13
Mean	1444.73	Std. deviation	978.63
R-square	1	Adj. R-square	1
Durbin-Watson	2.01	Ljung-Box(18)	24.0 P=0.85
Forecast error	65.94	BIC	83.52
MAPE	4.07	SMAPE	4.06
RMSE	61.31	MAD	46.48
MAD/Mean Ratio	0.03		

Variable Specification Test Battery

Term	Test Value	Percentile
M7	1.374	0.7589
M8	1.384	0.7607
M9	0.08405	0.2281
2018	0.0189	0.1094
2018Q-Trend	0.1142	0.2646
2018A-Trend	0.8567	0.6453
ML-MS-Net Migration	1.111	0.7081
ML-MS-Population	7.725	0.9946 **
ML-MS-Housing Starts-Total	2.309	0.8714
ML-MS-Housing Starts-Single-F	0.8273	0.6369
ML-MS-Housing Starts-Multi-F	2.267	0.8678

ML-MS-Households	1.911	0.8331		
ML-MS-Employment-Total Nonfarm	0.05075	0.1782		
ML-MS-Employment-Non-Manufacturing	0.05816	0.1906		
ML-MS-Employment-Service Providing	0.01527	0.09835		
ML-MS-Employment-Manufacturing	0.007704	0.06994		
ML-MS-Employment-Wholesale Trade	3.593	0.942		
ML-MS-Employment-Retail Trade	0.4379	0.4919		
ML-MS-LaborForce	4.464	0.9654		*
ML-MS-LaborForce-PartRate	5.379	0.9796		*
ML-MS-Unemployment Rate	1.426	0.7677		
ML-MS-Number Unemployed	1.477	0.7758		
ML-MS-R-Median Household Income	3.697	0.9455		
ML-MS-R-Personal Income	0.5888	0.5571		
ML-MS-R-Per Capita Personal Income	0.781	0.6231		
ML-MS-R-Disp-Personal Income	1.215	0.7297		
ML-MS-R-Gross State Product	1.558	0.788		
ML-MS-R-GSP Manufacturing	0.6723	0.5878		
ML-MS-R-GSP Wholesale Trade	0.4681	0.5061		
ML-MS-R-GSP Retail Trade	3.226	0.9275		
ML-MS-R-GSP Estate, Rental, Leasing	1.087	0.7028		
ML-MS-Ind Prod Index Total	0.8851	0.6532		
ML-MS-New Passenger Car Registration	1.154	0.7172		
ML-MS-R-Ind Prod Index Total	2.666	0.8975		
ML-MP-Population	7.74		0.9946	**
ML-MP-Housing Starts-Total	1.157	0.718		
ML-MP-Housing Starts-Single-F	0.016	0.1007		
ML-MP-Housing Starts-Multi-F	2.273	0.8683		
ML-MP-Employment-Total Nonfarm	0.01084	0.08291		
ML-MP-Employment-Non-Manufacturing	0.01757	0.1054		
ML-MP-Employment-Service Providing P	0.008528	0.07358		
ML-MP-Employment-Construction	1.331	0.7514		
ML-MP-Employment-Manufacturing	0.2021	0.347		
ML-MP-Employment-Wholesale Trade	2.335	0.8735		
ML-MP-Employment-Retail	0.4814	0.5122		
ML-MP-Labor Force	2.868	0.9097		
ML-MP-Labor Force-PartRate	4.258	0.9609		*
ML-MP-Unemployment Rate	1.358	0.7561		
ML-MP-Number Unemployed	1.38	0.76		
ML-MP-R-Personal Income	1.1	0.7057		
ML-MP-R-Per Capita Personal Income	1.581	0.7914		
ML-MP-R-Disposable Personal Income	1.751	0.8143		
ML-MP-R-Median Household Income	3.763	0.9476		
ML-MP-R-Gross Metropolitan Product	2.337	0.8736		
ComC(Thm/Cust)[-6]	3.589	0.9418		
M5[-1]	0.03145	0.1408		
M6[-1]	1.394	0.7623		
M10[-1]	0.03145	0.1408		
2018Trend[-1]	0.4013	0.4736		
ML-MP-Households[-1]	0.03769	0.1539		
_CONST	6.006	0.9857		*
_TREND	6.392	0.9885		*

Try adding ML-MP-Population to model.

Dynamics Test Battery

Term	Test Value	Percentile
ComC(Thm/Cust)[-1]	0.5212	0.5297
ComC(Thm/Cust)[-2]	3.408	0.9351
ComC(Thm/Cust)[-3]	0.7994	0.6287
ComC(Thm/Cust)[-4]	0.734	0.6084
ComC(Thm/Cust)[-5]	0.5255	0.5315
ComC(Thm/Cust)[-6]	3.589	0.9418
ComC(Thm/Cust)[-7]	1.649	0.801
ComC(Thm/Cust)[-8]	1.698	0.8074
ComC(Thm/Cust)[-9]	2.452	0.8826

ComC(Thm/Cust)[-10]	2.892		0.911		
ComC(Thm/Cust)[-11]	5.898		0.9848		*
ComC(Thm/Cust)[-12]	2.762		0.9035		
ComC(Thm/Cust)[-24]		9.832		0.9983	**
_AUTO[-2]	0.08799		0.2333		
_AUTO[-3]	3.936		0.9527		*
_AUTO[-4]	4.146		0.9583		*
_AUTO[-5]	4.447		0.965		*
_AUTO[-6]	3.548		0.9404		
_AUTO[-7]	0.8609		0.6465		
_AUTO[-8]	1.048		0.6941		
_AUTO[-9]	0.01114		0.08405		
_AUTO[-10]	0.2058		0.3499		
_AUTO[-11]	2.122		0.8548		
_AUTO[-12]	0.1848		0.3327		
Common factor test Chi Square(5)	6.223		0.7149		

Try adding ComC(Thm/Cust)[-24] to model.

Historic Data

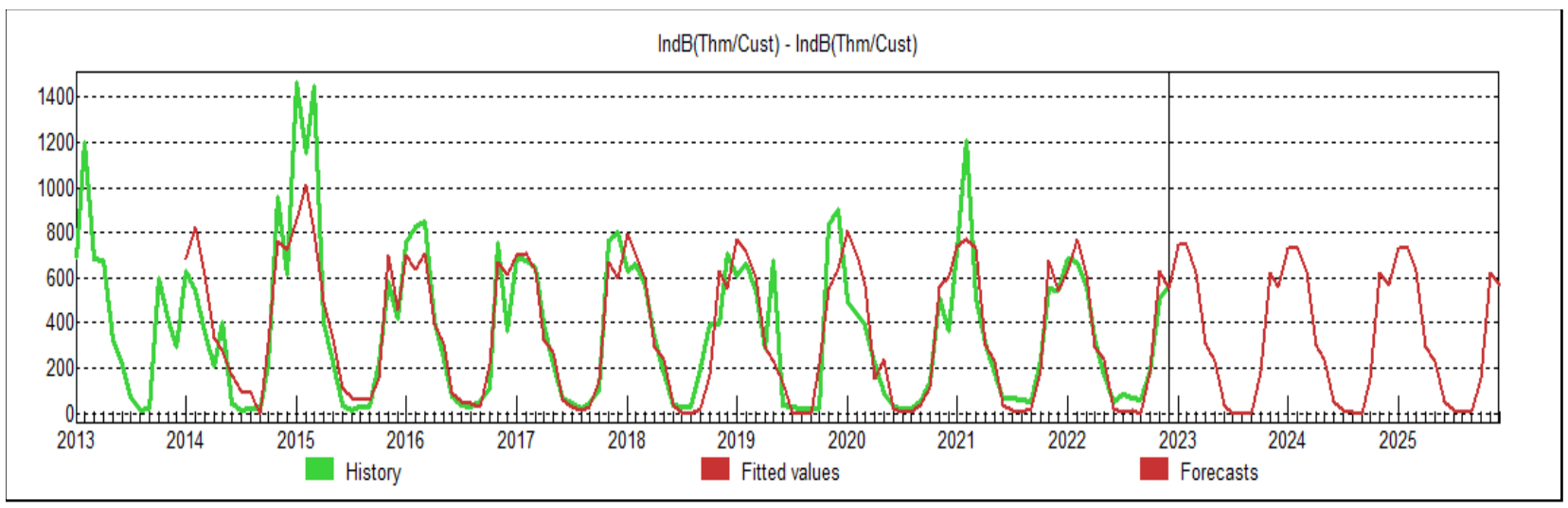
Date	Historic	Quarterly	Annual	Fitted	Quarterly	Annual
2013-Jan	2545					
2013-Feb	2657					
2013-Mar	2402	7603				
2013-Apr	1643					
2013-May	1110					
2013-Jun	538	3290				
2013-Jul	403					
2013-Aug	373					
2013-Sep	365	1141				
2013-Oct	514					
2013-Nov	1071					
2013-Dec	1797	3382	15417			
2014-Jan	2609					
2014-Feb	2628					
2014-Mar	2289	7526				
2014-Apr	1616					
2014-May	1086					
2014-Jun	604	3306				
2014-Jul	433					
2014-Aug	379					
2014-Sep	399	1211				
2014-Oct	476					
2014-Nov	1033					
2014-Dec	1892	3401	15445			
2015-Jan	2626			2649		
2015-Feb	2653			2737		
2015-Mar	2391	7671		2402	7788	
2015-Apr	1697			1618		
2015-May	1041			1037		
2015-Jun	527	3264		448	3103	
2015-Jul	401			337		
2015-Aug	371			356		
2015-Sep	386	1158		344	1038	
2015-Oct	527			510		
2015-Nov	1141			1152		
2015-Dec	1865	3533	15626	1987	3649	15578
2016-Jan	2549			2696		
2016-Feb	2542			2740		
2016-Mar	2394	7485		2370	7807	
2016-Apr	1682			1659		
2016-May	1046			1071		
2016-Jun	557	3286		512	3242	
2016-Jul	401			404		
2016-Aug	373			404		

2016-Sep	403	1178		399	1207	
2016-Oct	557			556		
2016-Nov	1228			1205		
2016-Dec	1995	3780	15728	2096	3857	16112
2017-Jan	2853			2809		
2017-Feb	2950			2939		
2017-Mar	2756	8559		2636	8384	
2017-Apr	1791			1898		
2017-May	1239			1160		
2017-Jun	640	3670		635	3693	
2017-Jul	459			484		
2017-Aug	417			477		
2017-Sep	466	1342		464	1424	
2017-Oct	657			645		
2017-Nov	1276			1324		
2017-Dec	2277	4210	17781	2161	4130	17631
2018-Jan	2954			2977		
2018-Feb	3036			2999		
2018-Mar	2622	8612		2707	8683	
2018-Apr	1928			1853		
2018-May	1195			1243		
2018-Jun	575	3698		630	3726	
2018-Jul	468			456		
2018-Aug	442			478		
2018-Sep	449	1359		470	1404	
2018-Oct	602			626		
2018-Nov	1308			1293		
2018-Dec	2190	4101	17770	2175	4094	17906
2019-Jan	3038			2964		
2019-Feb	3064			3097		
2019-Mar	2771	8872		2768	8828	
2019-Apr	1856			1918		
2019-May	1295			1220		
2019-Jun	618	3769		665	3803	
2019-Jul	467			458		
2019-Aug	440			456		
2019-Sep	447	1354		452	1366	
2019-Oct	596			617		
2019-Nov	1180			1270		
2019-Dec	2264	4040	18035	2143	4030	18027
2020-Jan	3050			2991		
2020-Feb	3133			3092		
2020-Mar	2782	8964		2745	8829	
2020-Apr	1860			1928		
2020-May	1071			1190		
2020-Jun	542	3473		524	3641	
2020-Jul	394			407		
2020-Aug	384			413		
2020-Sep	412	1190		409	1229	
2020-Oct	521			579		
2020-Nov	1311			1233		
2020-Dec	2122	3954	17582	2183	3996	17694
2021-Jan	2898			2938		
2021-Feb	3074			3024		
2021-Mar	2624	8596		2749	8711	
2021-Apr	1894			1836		
2021-May	1196			1228		
2021-Jun	618	3708		593	3658	
2021-Jul	431			443		
2021-Aug	394			430		
2021-Sep	423	1248		414	1287	
2021-Oct	619			583		
2021-Nov	1253			1254		
2021-Dec	2228	4100	17653	2172	4009	17665
2022-Jan	3054			2993		
2022-Feb	3298			3115		

2022-Mar	2907	9259		2861	8970	
2022-Apr	1992			1976		
2022-May	1319			1229		
2022-Jun	605	3915		638	3844	
2022-Jul	453			424		
2022-Aug	401			431		
2022-Sep	423	1277		412	1266	
2022-Oct	605			569		
2022-Nov	1312			1278		
2022-Dec	2152	4070	18520	2172	4019	18099
Total	169556			138713		
Average	1413			1445		
Minimum	365			337		
Maximum	3298			3115		

Forecast Data

Date	**2.5 Lower**	**Forecast**	**Quarterly**	**Annual**	**97.5 Upper**	**Stat. forecast**
2023-Jan	2806	2926			3046	2926
2023-Feb	2910	3043			3177	3043
2023-Mar	2570	2706	8676		2842	2706
2023-Apr	1751	1888			2025	1888
2023-May	1070	1207			1344	1207
2023-Jun	464	602	3696		739	602
2023-Jul	294	431			568	431
2023-Aug	286	423			560	423
2023-Sep	289	426	1280		563	426
2023-Oct	455	592			729	592
2023-Nov	1122	1259			1397	1259
2023-Dec	2033	2170	4022	17673	2307	2170
2024-Jan	2831	2969			3106	2969
2024-Feb	2975	3113			3250	3113
2024-Mar	2663	2801	8882		2938	2801
2024-Apr	1817	1955			2092	1955
2024-May	1129	1266			1404	1266
2024-Jun	491	628	3850		766	628
2024-Jul	312	449			587	449
2024-Aug	297	434			572	434
2024-Sep	295	432	1316		570	432
2024-Oct	456	593			730	593
2024-Nov	1137	1274			1411	1274
2024-Dec	2025	2162	4029	18076	2299	2162
2025-Jan	2799	2939			3078	2939
2025-Feb	2902	3044			3186	3044
2025-Mar	2583	2726	8709		2869	2726
2025-Apr	1754	1897			2041	1897
2025-May	1072	1216			1360	1216
2025-Jun	461	605	3718		749	605
2025-Jul	291	435			579	435
2025-Aug	290	434			578	434
2025-Sep	290	434	1303		578	434
2025-Oct	449	593			737	593
2025-Nov	1120	1264			1408	1264
2025-Dec	2019	2163	4020	17750	2307	2163
Total		53499				53499
Average		1486				1486
Minimum		423				423
Maximum		3113				3113



Forecast Report for IndB(Thm/Cust)

Description: IndB(Thm/Cust)

Model Details

Dynamic regression
Regression(10 regressors, 1 lagged errors)

Term	Coefficient	Normalized	Elasticity	Std. Error	t-Statistic	Percentile
M1	616	0.5151	0.1429	73.76	8.352	1
M2	581.3	0.486	0.1348	85.53	6.796	1
M3	479.1	0.4006	0.1111	86.55	5.535	1
M4	167	0.1396	0.03873	78.92	2.116	0.9631
M5	172.8	0.1445	0.04008	63.38	2.727	0.9924
M10	155.9	0.1304	0.03616	55.37	2.816	0.9941
M11	589.7	0.493	0.1368	57.66	10.23	1
M12	435.2	0.3639	0.1009	79.29	5.489	1
2018Trend	1.702	0.07869	0.05159	0.7919	2.15	0.9659
IndB(Thm/Cust)[-1]	0.2064	0.206	0.2056	0.08931	2.311	0.977
_AUTO[-11]	-0.2072			0.09113	-2.273	0.9748

Within-Sample Statistics

Sample size	108	No. parameters	11
Mean	360.51	Std. deviation	332.09
R-square	0.78	Adj. R-square	0.76
Durbin-Watson	2.03	Ljung-Box(18)	21.5 P=0.75
Forecast error	163.26	BIC	196.39
MAPE	73.03	SMAPE	55.39
RMSE	154.72	MAD	102.73
MAD/Mean Ratio	0.28		

Variable Specification Test Battery

Term	Test Value	Percentile
M6	0.2971	0.4143
M7	0.000107	0.008251
M8	0.04199	0.1624
M9	0.6373	0.5753
2018	0.529	0.533
2018Q-Trend	0.1045	0.2535
2018A-Trend	0.4264	0.4863
ML-MS-Net Migration	0.007867	0.07067
ML-MS-Population	0.05719	0.189
ML-MS-Housing Starts-Total	0.000778	0.02226
ML-MS-Housing Starts-Single-F	0.03994	0.1584
ML-MS-Housing Starts-Multi-F	0.03474	0.1479
ML-MS-Households	0.05586	0.1868

ML-MS-Employment-Total Nonfarm	0.06154	0.1959
ML-MS-Employment-Non-Manufacturing	0.06082	0.1948
ML-MS-Employment-Service Providing	0.05987	0.1933
ML-MS-Employment-Manufacturing	0.06754	0.2051
ML-MS-Employment-Wholesale Trade	0.06591	0.2026
ML-MS-Employment-Retail Trade	0.06649	0.2035
ML-MS-LaborForce	0.05579	0.1867
ML-MS-LaborForce-PartRate	0.05916	0.1922
ML-MS-Unemployment Rate	0.002949	0.04331
ML-MS-Number Unemployed	0.00327	0.0456
ML-MS-R-Median Household Income	0.04494	0.1679
ML-MS-R-Personal Income	0.05221	0.1807
ML-MS-R-Per Capita Personal Income	0.05527	0.1859
ML-MS-R-Disp-Personal Income	0.05108	0.1788
ML-MS-R-Gross State Product	0.05974	0.1931
ML-MS-R-GSP Manufacturing	0.0848	0.2291
ML-MS-R-GSP Wholesale Trade	0.07618	0.2175
ML-MS-R-GSP Retail Trade	0.04774	0.1729
ML-MS-R-GSP Estate, Rental, Leasing	0.06473	0.2008
ML-MS-Ind Prod Index Total	0.08297	0.2267
ML-MS-New Passenger Car Registration	0.06518	0.2015
ML-MS-R-Ind Prod Index Total	0.09592	0.2432
ML-MP-Population	0.05636	0.1877
ML-MP-Housing Starts-Total	0.001556	0.03147
ML-MP-Housing Starts-Single-F	0.02606	0.1282
ML-MP-Housing Starts-Multi-F	0.0566	0.1881
ML-MP-Households	0.05546	0.1862
ML-MP-Employment-Total Nonfarm	0.0601	0.1937
ML-MP-Employment-Non-Manufacturing	0.05991	0.1934
ML-MP-Employment-Service Providing P	0.06014	0.1937
ML-MP-Employment-Construction	0.05509	0.1856
ML-MP-Employment-Manufacturing	0.06181	0.1963
ML-MP-Employment-Wholesale Trade	0.05883	0.1916
ML-MP-Employment-Retail	0.06908	0.2073
ML-MP-Labor Force	0.05236	0.181
ML-MP-Labor Force-PartRate	0.05677	0.1883
ML-MP-Unemployment Rate	0.00116	0.02717
ML-MP-Number Unemployed	0.001581	0.03171
ML-MP-R-Personal Income	0.05274	0.1816
ML-MP-R-Per Capita Personal Income	0.05683	0.1884
ML-MP-R-Disposable Personal Income	0.05164	0.1798
ML-MP-R-Median Household Income	0.04715	0.1719
ML-MP-R-Gross Metropolitan Product	0.06067	0.1946
M1[-1]	0.000021	0.00368
M5[-1]	0.2971	0.4143
M10[-1]	0.000021	0.00368
M12[-1]	0.000021	0.00368
2018Trend[-1]	0.2413	0.3767
_CONST	0.05993	0.1934
_TREND	0.01159	0.08574

Variable specification tests successful.

Dynamics Test Battery

Term	Test Value	Percentile	
lndB(Thm/Cust)[-2]	0.7918	0.6264	
lndB(Thm/Cust)[-3]	1.088	0.703	
lndB(Thm/Cust)[-4]	1.882	0.8299	
lndB(Thm/Cust)[-5]	3.124	0.9228	
lndB(Thm/Cust)[-6]	2.354	0.875	
lndB(Thm/Cust)[-7]	2.695	0.8993	
lndB(Thm/Cust)[-8]	3.273	0.9296	
lndB(Thm/Cust)[-9]	4.177	0.959	*
lndB(Thm/Cust)[-10]	4.152	0.9584	*
lndB(Thm/Cust)[-11]	5.66	0.9826	*

lndB(Thm/Cust)[-12]	5.253		0.9781		*
lndB(Thm/Cust)[-24]		6.646		0.9901	**
_AUTO[-1]	0.4415		0.4936		
_AUTO[-2]	2.237		0.8653		
_AUTO[-3]	0.1499		0.3014		
_AUTO[-4]	0.09106		0.2372		
_AUTO[-5]	0.3924		0.469		
_AUTO[-6]	0.6992		0.5969		
_AUTO[-7]	1.127		0.7117		
_AUTO[-8]	0.135		0.2867		
_AUTO[-9]	1.754		0.8147		
_AUTO[-10]	0.6131		0.5664		
_AUTO[-12]	3.01		0.9172		
_AUTO[-24]	4.518		0.9665		*
Common factor test Chi Square(3)	3.836		0.7202		

Try adding lndB(Thm/Cust)[-24] to model.

Historic Data

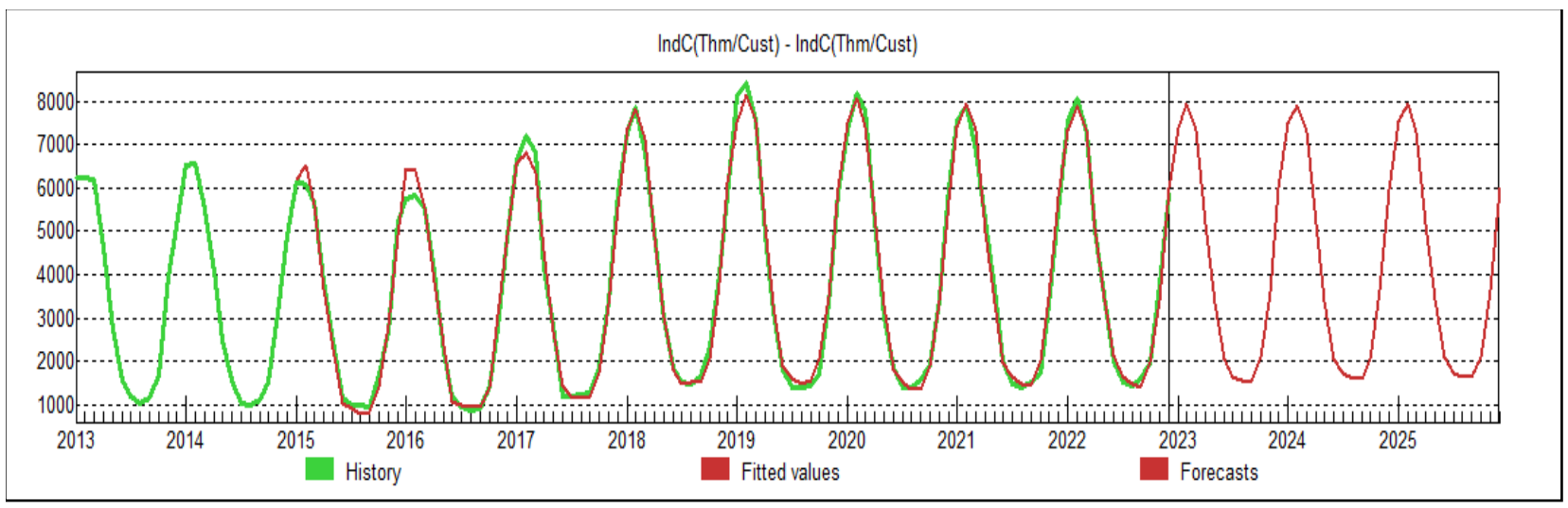
Date	Historic	Quarterly	Annual	Fitted	Quarterly	Annual
2013-Jan	695					
2013-Feb	1199					
2013-Mar	682	2575				
2013-Apr	678					
2013-May	326					
2013-Jun	217	1221				
2013-Jul	71					
2013-Aug	14					
2013-Sep	17	102				
2013-Oct	595					
2013-Nov	413					
2013-Dec	294	1302	5200			
2014-Jan	628			681		
2014-Feb	545			821		
2014-Mar	357	1530		613	2115	
2014-Apr	206			334		
2014-May	402			279		
2014-Jun	47	654		170	783	
2014-Jul	16			100		
2014-Aug	18			88		
2014-Sep	23	56		0	188	
2014-Oct	217			307		
2014-Nov	957			763		
2014-Dec	611	1785	4025	723	1793	4878
2015-Jan	1469			854		
2015-Feb	1155			1009		
2015-Mar	1449	4074		799	2662	
2015-Apr	406			499		
2015-May	224			334		
2015-Jun	32	661		113	945	
2015-Jul	12			69		
2015-Aug	25			62		
2015-Sep	28	64		55	186	
2015-Oct	226			154		
2015-Nov	583			698		
2015-Dec	419	1227	6026	460	1312	5105
2016-Jan	754			699		
2016-Feb	824			636		
2016-Mar	848	2425		711	2047	
2016-Apr	413			396		
2016-May	238			306		
2016-Jun	76	727		91	793	
2016-Jul	35			52		
2016-Aug	28			41		
2016-Sep	48	112		29	123	

2016-Oct	102			212		
2016-Nov	756			672		
2016-Dec	360	1217	4481	611	1494	4456
2017-Jan	693			701		
2017-Feb	676			710		
2017-Mar	642	2011		628	2039	
2017-Apr	392			326		
2017-May	216			268		
2017-Jun	63	671		59	653	
2017-Jul	40			25		
2017-Aug	20			14		
2017-Sep	39	99		29	68	
2017-Oct	105			144		
2017-Nov	761			667		
2017-Dec	799	1664	4445	598	1409	4169
2018-Jan	630			795		
2018-Feb	659			710		
2018-Mar	569	1858		599	2104	
2018-Apr	333			295		
2018-May	177			240		
2018-Jun	34	544		33	568	
2018-Jul	24			7		
2018-Aug	24			0		
2018-Sep	197	245		18	25	
2018-Oct	394			166		
2018-Nov	392			629		
2018-Dec	703	1490	4137	547	1342	4039
2019-Jan	607			772		
2019-Feb	661			716		
2019-Mar	540	1808		605	2093	
2019-Apr	284			292		
2019-May	676			232		
2019-Jun	37	998		136	660	
2019-Jul	24			4		
2019-Aug	21			0		
2019-Sep	20	64		0	4	
2019-Oct	17			218		
2019-Nov	836			554		
2019-Dec	902	1754	4624	640	1412	4169
2020-Jan	498			812		
2020-Feb	442			700		
2020-Mar	388	1328		569	2080	
2020-Apr	222			155		
2020-May	93			240		
2020-Jun	30	344		16	411	
2020-Jul	21			3		
2020-Aug	18			1		
2020-Sep	51	90		33	37	
2020-Oct	137			116		
2020-Nov	514			557		
2020-Dec	366	1018	2780	604	1278	3806
2021-Jan	723			742		
2021-Feb	1208			768		
2021-Mar	513	2444		734	2244	
2021-Apr	305			299		
2021-May	173			234		
2021-Jun	63	541		33	565	
2021-Jul	70			10		
2021-Aug	57			4		
2021-Sep	51	177		18	33	
2021-Oct	235			188		
2021-Nov	555			674		
2021-Dec	543	1333	4496	543	1406	4247
2022-Jan	684			629		
2022-Feb	666			767		
2022-Mar	561	1911		610	2006	

2022-Apr	331			296		
2022-May	170			235		
2022-Jun	50	551		23	554	
2022-Jul	84			1		
2022-Aug	63			9		
2022-Sep	56	203		0	11	
2022-Oct	181			185		
2022-Nov	506			628		
2022-Dec	568	1255	3919	549	1362	3933
Total	44136			38802		
Average	368			359		
Minimum	12			0		
Maximum	1469			1009		

Forecast Data

Date	2.5 Lower	Forecast	Quarterly	Annual	97.5 Upper	Stat. forecast
2023-Jan	442	745			1048	745
2023-Feb	437	747			1056	747
2023-Mar	313	623	2115		933	623
2023-Apr	0	310			620	310
2023-May	0	234			544	234
2023-Jun	0	33	577		343	33
2023-Jul	0	0			307	0
2023-Aug	0	0			301	0
2023-Sep	0	0	0		305	0
2023-Oct	0	180			490	180
2023-Nov	311	621			931	621
2023-Dec	245	561	1362	4054	877	561
2024-Jan	413	729			1046	729
2024-Feb	417	734			1050	734
2024-Mar	311	628	2091		944	628
2024-Apr	0	297			614	297
2024-May	0	237			554	237
2024-Jun	0	51	585		367	51
2024-Jul	0	12			329	12
2024-Aug	0	3			320	3
2024-Sep	0	0	15		312	0
2024-Oct	0	156			473	156
2024-Nov	306	622			939	622
2024-Dec	247	564	1343	4034	881	564
2025-Jan	415	732			1049	732
2025-Feb	416	733			1050	733
2025-Mar	313	630	2095		947	630
2025-Apr	0	296			613	296
2025-May	0	234			550	234
2025-Jun	0	48	578		365	48
2025-Jul	0	10			327	10
2025-Aug	0	3			320	3
2025-Sep	0	0	13		317	0
2025-Oct	0	156			473	156
2025-Nov	305	622			939	622
2025-Dec	247	564	1341	4027	880	564
Total		12115				12115
Average		337				337
Minimum		0				0
Maximum		747				747



Forecast Report for IndC(Thm/Cust)

Description: IndC(Thm/Cust)

Model Details

Dynamic regression
Regression(11 regressors, 2 lagged errors)

Term	Coefficient	Normalized	Elasticity	Std. Error	t-Statistic	Percentile
M1	4764	0.5522	0.1052	252.6	18.86	1
M2	4811	0.5577	0.1062	320.7	15	1
M3	4048	0.4693	0.08938	329	12.3	1
M4	2085	0.2417	0.04604	273.9	7.613	1
M5	877.3	0.1017	0.01937	147.8	5.934	1
M10	438.8	0.05086	0.009688	102.5	4.281	1
M11	1878	0.2177	0.04146	135	13.91	1
M12	3811	0.4418	0.08415	168.9	22.56	1
2018Q-Trend	-125.6	-0.1997	-0.0811	39.69	-3.164	0.9978
2QL-MS-R-GSP Ma	0.02372	0.01327	0.2997	0.003368	7.042	1
IndC(Thm/Cust)[-13	0.2617	0.2567	0.2539	0.05697	4.593	1
_AUTO[- 1]	0.4787			0.08954	5.346	1
_AUTO[-11]	0.2062			0.07928	2.601	0.989

Within-Sample Statistics

Sample size	96	No. parameters	13
Mean	3774.18	Std. deviation	2396.72
R-square	0.99	Adj. R-square	0.99
Durbin-Watson	1.87	Ljung-Box(18)	21.1 P=0.72
Forecast error	235.71	BIC	298.54
MAPE	5.63	SMAPE	5.62
RMSE	219.17	MAD	167.18
MAD/Mean Ratio	0.04		

Variable Specification Test Battery

Term	Test Value	Percentile	
M6	0.1127	0.2629	
M7	0.3313	0.4351	
M8	0.164	0.3145	
M9	1.052	0.695	
2018	0.1011	0.2495	
2018Trend	1.944	0.8368	
2018A-Trend	3.896	0.9516	*
2QL-MS-Net Migration	0.3054	0.4195	
2QL-MS-Population	0.02975	0.1369	
2QL-MS-Housing Starts-Total	0.3533	0.4477	
2QL-MS-Housing Starts-Single-F	0.4775	0.5105	

2QL-MS-Housing Starts-Multi-F	0.1468	0.2984
2QL-MS-Households	0.05636	0.1877
2QL-MS-Employment-Total Nonfarm	0.2954	0.4132
2QL-MS-Employment-Non-Manufacturin	0.3211	0.429
2QL-MS-Employment-Service Providing	0.3568	0.4497
2QL-MS-Employment-Manufacturing	0.0946	0.2416
2QL-MS-Employment-Wholesale Trade	0.05535	0.186
2QL-MS-Employment-Retail Trade	0.4458	0.4957
2QL-MS-LaborForce	0.02722	0.131
2QL-MS-LaborForce-PartRate	0.02699	0.1305
2QL-MS-Unemployment Rate	0.2702	0.3968
2QL-MS-Number Unemployed	0.2852	0.4067
2QL-MS-R-Median Household Income	0.1804	0.3289
2QL-MS-R-Personal Income	0.1699	0.3198
2QL-MS-R-Disp-Personal Income	0.1463	0.2979
2QL-MS-R-Gross State Product	0.6824	0.5912
2QL-MS-R-GSP Wholesale Trade	0.04481	0.1676
2QL-MS-R-GSP Retail Trade	1.442	0.7702
2QL-MS-R-GSP Estate, Rental, Leasing	0.08585	0.2305
2QL-MS-Ind Prod Index Total	0.2012	0.3463
2QL-MS-New Passenger Car Registratio	0.2093	0.3527
2QL-MS-R-Retail Sales	0.2796	0.403
2QL-MS-R-Ind Prod Index Total	0.1509	0.3023
2QL-MP-Population	0.0285	0.1341
2QL-MP-Housing Starts-Total	0.1995	0.3449
2QL-MP-Housing Starts-Single-F	0.1981	0.3437
2QL-MP-Housing Starts-Multi-F	0.08377	0.2278
2QL-MP-Households	0.04919	0.1755
2QL-MP-Employment-Total Nonfarm	0.2667	0.3944
2QL-MP-Employment-Non-Manufacturin	0.2809	0.4039
2QL-MP-Employment-Service Providing	0.3149	0.4253
2QL-MP-Employment-Construction	0.7701	0.6198
2QL-MP-Employment-Manufacturing	0.09864	0.2465
2QL-MP-Employment-Wholesale Trade	0.08747	0.2326
2QL-MP-Employment-Retail	0.635	0.5745
2QL-MP-Labor Force	0.0244	0.1241
2QL-MP-Labor Force-PartRate	0.02345	0.1217
2QL-MP-Unemployment Rate	0.2926	0.4115
2QL-MP-Number Unemployed	0.3061	0.4199
2QL-MP-R-Personal Income	0.3529	0.4475
2QL-MP-R-Per Capita Personal Income	0.3854	0.4653
2QL-MP-R-Disposable Personal Income	0.2954	0.4132
2QL-MP-R-Median Household Income	0.22	0.3609
2QL-MP-R-Gross Metropolitan Product	1.031	0.6901
M3[-1]	0.0212	0.1158
M5[-1]	0.1127	0.2629
M11[-1]	0.0212	0.1158
2018Q-Trend[-1]	0.08322	0.227
2QL-MS-R-GSP Manufacturing[-1]	0.9626	0.6735
_CONST	0.03102	0.1398
_TREND	0.02843	0.1339

Variable specification tests successful.

Dynamics Test Battery

Term	Test Value	Percentile
lndC(Thm/Cust)[-1]	0.5053	0.5228
lndC(Thm/Cust)[-2]	0.1341	0.2858
lndC(Thm/Cust)[-3]	1.465	0.7738
lndC(Thm/Cust)[-4]	0.866	0.6479
lndC(Thm/Cust)[-5]	2.171	0.8593
lndC(Thm/Cust)[-6]	1.359	0.7563
lndC(Thm/Cust)[-7]	0.1024	0.251
lndC(Thm/Cust)[-8]	0.2249	0.3647
lndC(Thm/Cust)[-9]	2.133	0.8559

lndC(Thm/Cust)[-10]	1.105		0.7069	
lndC(Thm/Cust)[-11]	1.302		0.7461	
lndC(Thm/Cust)[-12]	1.383		0.7605	
lndC(Thm/Cust)[-24]	3.16		0.9245	
_AUTO[-2]	0.6111		0.5656	
_AUTO[-3]	2.103		0.853	
_AUTO[-4]	0.994		0.6812	
_AUTO[-5]	2.155		0.8579	
_AUTO[-6]	0.9494		0.6701	
_AUTO[-7]	0.3417		0.4412	
_AUTO[-8]	0.6971		0.5962	
_AUTO[-9]	0.2581		0.3886	
_AUTO[-10]	0.314		0.4248	
_AUTO[-12]	0.7093		0.6003	
_AUTO[-24]		7.108		0.9923 **
Common factor test Chi Square(8)	2.003		0.01909	

Try adding _AUTO[-24] to model.

Historic Data

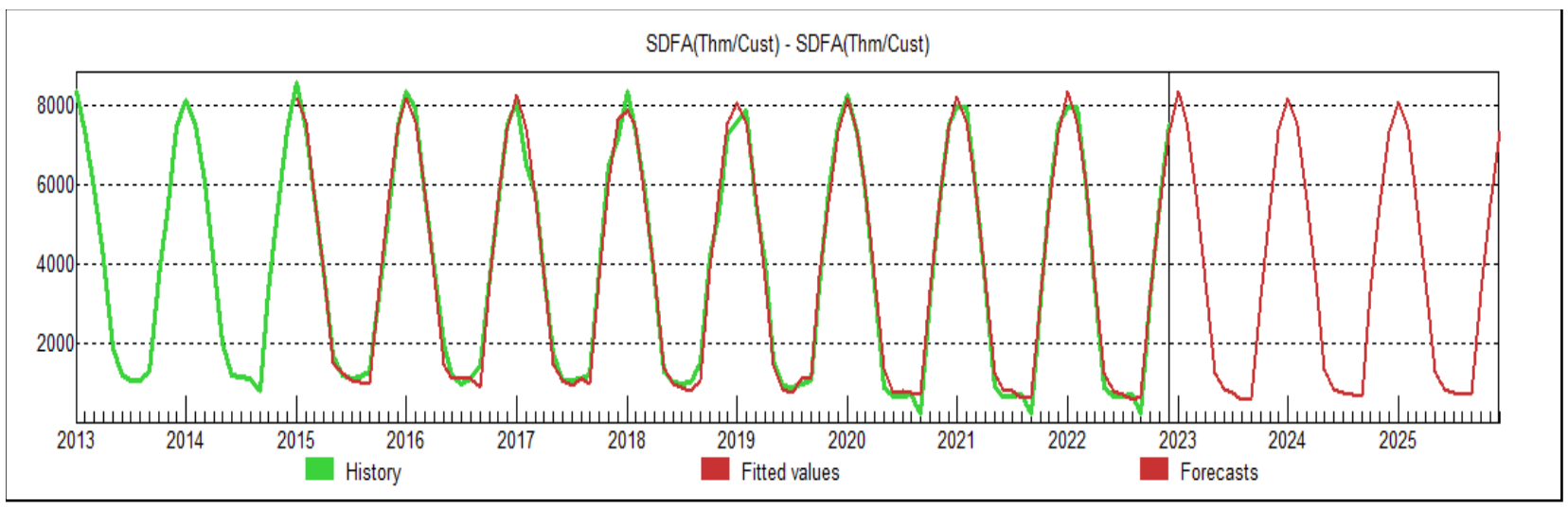
Date	Historic	Quarterly	Annual	Fitted	Quarterly	Annual
2013-Jan	6242					
2013-Feb	6236					
2013-Mar	6195	18673				
2013-Apr	4625					
2013-May	2725					
2013-Jun	1549	8899				
2013-Jul	1204					
2013-Aug	1034					
2013-Sep	1169	3406				
2013-Oct	1665					
2013-Nov	3944					
2013-Dec	5084	10693	41671			
2014-Jan	6523					
2014-Feb	6565					
2014-Mar	5511	18599				
2014-Apr	4062					
2014-May	2482					
2014-Jun	1537	8081				
2014-Jul	1019					
2014-Aug	1000					
2014-Sep	1096	3115				
2014-Oct	1507					
2014-Nov	3087					
2014-Dec	4905	9500	39294			
2015-Jan	6174			6213		
2015-Feb	6091			6524		
2015-Mar	5681	17945		5615	18352	
2015-Apr	3841			3676		
2015-May	2451			2300		
2015-Jun	1166	7458		1031	7007	
2015-Jul	1005			924		
2015-Aug	970			803		
2015-Sep	946	2921		809	2536	
2015-Oct	1659			1392		
2015-Nov	2690			2832		
2015-Dec	5224	9573	37897	4900	9125	37019
2016-Jan	5745			6431		
2016-Feb	5847			6399		
2016-Mar	5509	17101		5541	18370	
2016-Apr	4040			3855		
2016-May	2215			2388		
2016-Jun	1176	7432		1073	7316	
2016-Jul	954			977		
2016-Aug	878			932		

2016-Sep	889	2720		933	2842	
2016-Oct	1450			1400		
2016-Nov	2778			3063		
2016-Dec	4894	9122	36375	4911	9374	37902
2017-Jan	6628			6550		
2017-Feb	7209			6825		
2017-Mar	6792	20628		6378	19754	
2017-Apr	4170			4580		
2017-May	2818			2693		
2017-Jun	1171	8160		1451	8724	
2017-Jul	1175			1155		
2017-Aug	1216			1167		
2017-Sep	1286	3677		1191	3513	
2017-Oct	1826			1737		
2017-Nov	3387			3297		
2017-Dec	5889	11103	43568	5565	10599	42590
2018-Jan	7289			7385		
2018-Feb	7872			7837		
2018-Mar	6807	21968		7121	22342	
2018-Apr	4939			4880		
2018-May	2986			3038		
2018-Jun	1842	9767		1818	9735	
2018-Jul	1508			1457		
2018-Aug	1480			1521		
2018-Sep	1628	4616		1515	4493	
2018-Oct	2348			2034		
2018-Nov	3994			3792		
2018-Dec	5843	12185	48536	6121	11947	48518
2019-Jan	8122			7514		
2019-Feb	8455			8149		
2019-Mar	7569	24146		7542	23204	
2019-Apr	4946			5151		
2019-May	3161			3291		
2019-Jun	1804	9911		1878	10321	
2019-Jul	1411			1589		
2019-Aug	1382			1469		
2019-Sep	1421	4213		1536	4594	
2019-Oct	1719			2040		
2019-Nov	3366			3486		
2019-Dec	5872	10957	49227	5997	11523	49642
2020-Jan	7327			7485		
2020-Feb	8172			8088		
2020-Mar	7799	23297		7435	23008	
2020-Apr	5256			5370		
2020-May	3036			3312		
2020-Jun	1833	10125		1791	10473	
2020-Jul	1378			1519		
2020-Aug	1391			1365		
2020-Sep	1556	4325		1370	4253	
2020-Oct	1931			1897		
2020-Nov	3439			3379		
2020-Dec	5974	11344	49091	5724	11001	48735
2021-Jan	7531			7435		
2021-Feb	7924			7951		
2021-Mar	6832	22287		7337	22723	
2021-Apr	5279			4964		
2021-May	3615			3355		
2021-Jun	2014	10908		1982	10301	
2021-Jul	1490			1630		
2021-Aug	1378			1455		
2021-Sep	1506	4373		1454	4540	
2021-Oct	1707			2006		
2021-Nov	3298			3453		
2021-Dec	5454	10458	48026	5806	11265	48829
2022-Jan	7521			7329		
2022-Feb	8065			7873		

2022-Mar	7315	22901		7353	22555	
2022-Apr	5067			5100		
2022-May	3490			3464		
2022-Jun	2018	10575		2129	10693	
2022-Jul	1523			1637		
2022-Aug	1416			1478		
2022-Sep	1584	4522		1400	4515	
2022-Oct	1980			1974		
2022-Nov	3772			3390		
2022-Dec	5852	11603	49601	5973	11337	49099
Total	443287			362334		
Average	3694			3774		
Minimum	878			803		
Maximum	8455			8149		

Forecast Data

Date	**2.5 Lower**	**Forecast**	**Quarterly**	**Annual**	**97.5 Upper**	**Stat. forecast**
2023-Jan	6947	7377			7807	7377
2023-Feb	7477	7953			8429	7953
2023-Mar	6842	7328	22658		7815	7328
2023-Apr	4684	5173			5661	5173
2023-May	2860	3349			3838	3349
2023-Jun	1542	2031	10553		2520	2031
2023-Jul	1153	1642			2132	1642
2023-Aug	1062	1551			2040	1551
2023-Sep	1038	1527	4721		2016	1527
2023-Oct	1586	2075			2564	2075
2023-Nov	3106	3595			4084	3595
2023-Dec	5493	5990	11660	49592	6487	5990
2024-Jan	6977	7482			7986	7482
2024-Feb	7392	7925			8459	7925
2024-Mar	6773	7314	22721		7855	7314
2024-Apr	4638	5182			5725	5182
2024-May	2856	3401			3945	3401
2024-Jun	1496	2041	10623		2585	2041
2024-Jul	1157	1702			2246	1702
2024-Aug	1059	1604			2148	1604
2024-Sep	1051	1595	4900		2139	1595
2024-Oct	1486	2030			2575	2030
2024-Nov	3068	3613			4158	3613
2024-Dec	5398	5943	11586	49831	6488	5943
2025-Jan	6974	7521			8069	7521
2025-Feb	7411	7960			8509	7960
2025-Mar	6761	7313	22794		7866	7313
2025-Apr	4636	5189			5743	5189
2025-May	2870	3423			3977	3423
2025-Jun	1528	2082	10695		2636	2082
2025-Jul	1176	1730			2283	1730
2025-Aug	1093	1647			2201	1647
2025-Sep	1073	1627	5004		2181	1627
2025-Oct	1514	2068			2621	2068
2025-Nov	3070	3624			4178	3624
2025-Dec	5420	5974	11665	50158	6528	5974
Total		149582				149582
Average		4155				4155
Minimum		1527				1527
Maximum		7960				7960



Forecast Report for SDFA(Thm/Cust)

Description: SDFA(Thm/Cust)

Model Details

Dynamic regression
Regression(9 regressors, 3 lagged errors)

Term	Coefficient	Normalized	Elasticity	Std. Error	t-Statistic	Percentile
M1	6031	0.5943	0.1296	314.2	19.2	1
M2	5206	0.513	0.1119	356.2	14.62	1
M3	3569	0.3516	0.07669	290.8	12.27	1
M4	1842	0.1815	0.03959	178.3	10.33	1
M10	2625	0.2587	0.05642	123.2	21.32	1
M11	4272	0.421	0.09181	153.5	27.82	1
M12	5671	0.5588	0.1219	225.2	25.19	1
ML-MS-R-Ind Prod I	7.115	0.01322	0.1671	1.154	6.166	1
SDFA(Thm/Cust)[-1	0.2041	0.2012	0.2058	0.04698	4.346	1
_AUTO[- 1]	0.234			0.09981	2.344	0.9786
_AUTO[-11]	0.2582			0.1022	2.527	0.9866
_AUTO[- 9]	-0.255			0.1011	-2.523	0.9865

Within-Sample Statistics

Sample size	96	No. parameters	12
Mean	3874.26	Std. deviation	2819.67
R-square	0.99	Adj. R-square	0.99
Durbin-Watson	1.99	Ljung-Box(18)	34.0 P=0.99
Forecast error	284.05	BIC	353.42
MAPE	15.05	SMAPE	11.7
RMSE	265.7	MAD	207.43
MAD/Mean Ratio	0.05		

Variable Specification Test Battery

Term	Test Value	Percentile	
M5	0.1124	0.2626	
M6	0.08866	0.2341	
M7	0.02074	0.1145	
M8	0.1849	0.3328	
M9	0.07537	0.2163	
2018	1.589	0.7926	
2018Trend	1.476	0.7756	
2018Q-Trend	1.517	0.7819	
2018A-Trend	1.667	0.8033	
ML-MS-Net Migration	4.573	0.9675	*
ML-MS-Population	4.97	0.9742	*
ML-MS-Housing Starts-Total	4.248	0.9607	*

ML-MS-Housing Starts-Single-F	2.583	0.892	
ML-MS-Housing Starts-Multi-F	4.508	0.9663	*
ML-MS-Households	4.781	0.9712	*
ML-MS-Employment-Total Nonfarm	2.496	0.8859	
ML-MS-Employment-Non-Manufacturing	2.393	0.8781	
ML-MS-Employment-Service Providing	2.009	0.8436	
ML-MS-Employment-Manufacturing	3.126	0.9229	
ML-MS-Employment-Wholesale Trade	3.984	0.9541	*
ML-MS-Employment-Retail Trade	1.979	0.8405	
ML-MS-LaborForce	4.988	0.9745	*
ML-MS-LaborForce-PartRate	5.046	0.9753	*
ML-MS-Unemployment Rate	2.408	0.8793	
ML-MS-Number Unemployed	2.469	0.8839	
ML-MS-R-Median Household Income	5.167	0.977	*
ML-MS-R-Personal Income	5.523	0.9812	*
ML-MS-R-Per Capita Personal Income	5.548	0.9815	*
ML-MS-R-Disp-Personal Income	5.629	0.9823	*
ML-MS-R-Gross State Product	3.895	0.9516	*
ML-MS-R-GSP Manufacturing	3.245	0.9283	
ML-MS-R-GSP Wholesale Trade	4.153	0.9584	*
ML-MS-R-GSP Retail Trade	2.819	0.9069	
ML-MS-R-GSP Estate, Rental, Leasing	4.319	0.9623	*
ML-MS-Ind Prod Index Total	2.515	0.8872	
ML-MS-New Passenger Car Registration	0.1099	0.2597	
ML-MP-Population	4.949	0.9739	*
ML-MP-Housing Starts-Total	5.036	0.9752	*
ML-MP-Housing Starts-Single-F	2.906	0.9118	
ML-MP-Housing Starts-Multi-F	5.264	0.9782	*
ML-MP-Households	4.754	0.9708	*
ML-MP-Employment-Total Nonfarm	2.458	0.8831	
ML-MP-Employment-Non-Manufacturing	2.363	0.8757	
ML-MP-Employment-Service Providing P	1.978	0.8404	
ML-MP-Employment-Construction	4.398	0.964	*
ML-MP-Employment-Manufacturing	2.958	0.9145	
ML-MP-Employment-Wholesale Trade	4.067	0.9563	*
ML-MP-Employment-Retail	1.701	0.8079	
ML-MP-Labor Force	4.839	0.9722	*
ML-MP-Labor Force-PartRate	4.935	0.9737	*
ML-MP-Unemployment Rate	2.841	0.9081	
ML-MP-Number Unemployed	2.963	0.9148	
ML-MP-R-Personal Income	5.194	0.9773	*
ML-MP-R-Per Capita Personal Income	5.234	0.9778	*
ML-MP-R-Disposable Personal Income	5.281	0.9784	*
ML-MP-R-Median Household Income	5.021	0.975	*
ML-MP-R-Gross Metropolitan Product	3.707	0.9458	
M3[-1]	0.000011	0.002672	
M4[-1]	0.1124	0.2626	
ML-MS-R-Ind Prod Index Total[-1]	0.3423	0.4415	
_CONST	4.988	0.9745	*
_TREND	4.097	0.957	*

Variable specification tests successful.

Dynamics Test Battery

Term	Test Value	Percentile
SDFA(Thm/Cust)[-1]	0.5978	0.5606
SDFA(Thm/Cust)[-2]	0.1283	0.2798
SDFA(Thm/Cust)[-3]	1.798	0.8201
SDFA(Thm/Cust)[-4]	0.159	0.3099
SDFA(Thm/Cust)[-5]	2.242	0.8657
SDFA(Thm/Cust)[-6]	1.438	0.7696
SDFA(Thm/Cust)[-7]	0.1269	0.2783
SDFA(Thm/Cust)[-8]	0.6145	0.5669
SDFA(Thm/Cust)[-9]	0.002608	0.04073
SDFA(Thm/Cust)[-10]	0.001642	0.03232

SDFA(Thm/Cust)[-11]	0.08757	0.2327
SDFA(Thm/Cust)[-12]	0.2632	0.3921
SDFA(Thm/Cust)[-24]	1.574	0.7903
_AUTO[-2]	0.1128	0.263
_AUTO[-3]	2.153	0.8577
_AUTO[-4]	1.207	0.7281
_AUTO[-5]	0.9848	0.679
_AUTO[-6]	0.2421	0.3773
_AUTO[-7]	0.01413	0.09463
_AUTO[-8]	1.824	0.8232
_AUTO[-10]	0.3936	0.4696
_AUTO[-12]	0.8465	0.6425
_AUTO[-24]	2.166	0.8589
Common factor test Chi Square(10)	5.162	0.1199

Percentile

Historic Data

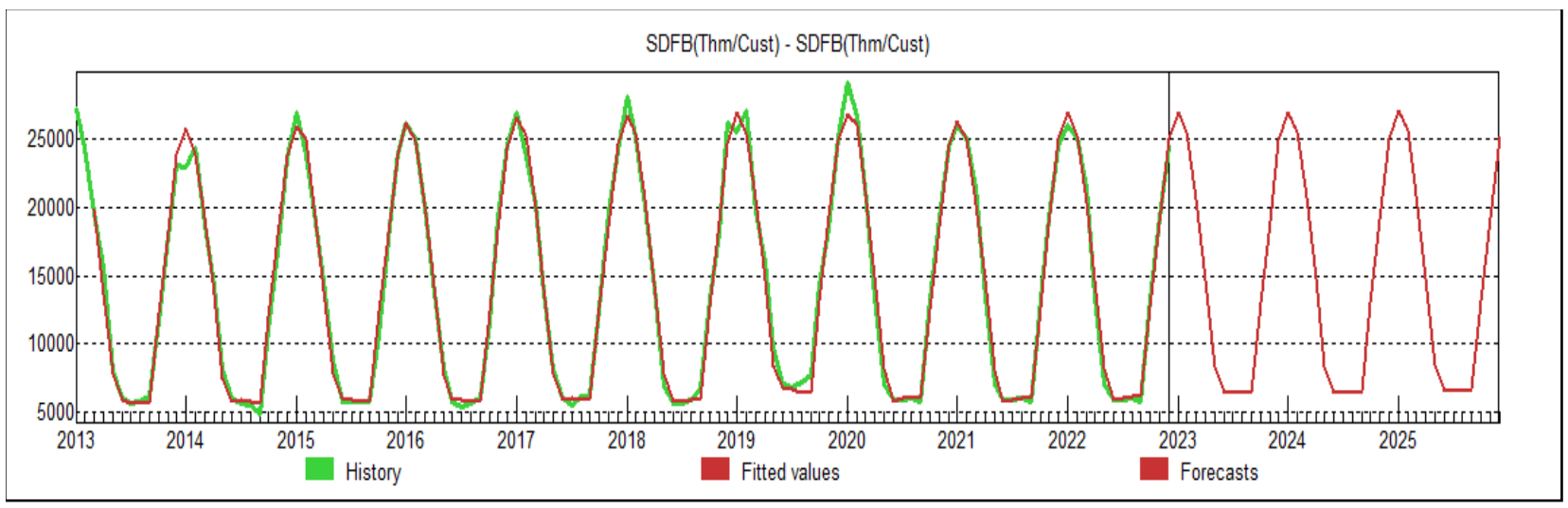
Date	Historic	Quarterly	Annual	Fitted	Quarterly	Annual
2013-Jan	8341					
2013-Feb	7361					
2013-Mar	5885	21587				
2013-Apr	4141					
2013-May	1826					
2013-Jun	1175	7142				
2013-Jul	1043					
2013-Aug	1042					
2013-Sep	1270	3355				
2013-Oct	3681					
2013-Nov	5486					
2013-Dec	7475	16642	48726			
2014-Jan	8124					
2014-Feb	7498					
2014-Mar	6065	21688				
2014-Apr	3903					
2014-May	1961					
2014-Jun	1163	7028				
2014-Jul	1131					
2014-Aug	1096					
2014-Sep	790	3016				
2014-Oct	3328					
2014-Nov	5369					
2014-Dec	7357	16054	47785			
2015-Jan	8601			8158		
2015-Feb	7397			7618		
2015-Mar	5708	21706		5782	21557	
2015-Apr	3828			3822		
2015-May	1658			1485		
2015-Jun	1155	6642		1216	6523	
2015-Jul	1081			1058		
2015-Aug	1145			1018		
2015-Sep	1259	3486		936	3012	
2015-Oct	3200			3379		
2015-Nov	5245			5584		
2015-Dec	7485	15930	47764	7472	16435	47527
2016-Jan	8378			8169		
2016-Feb	7916			7617		
2016-Mar	5741	22035		5820	21605	
2016-Apr	3863			3686		
2016-May	1978			1459		
2016-Jun	1175	7016		1088	6233	
2016-Jul	969			1077		
2016-Aug	1109			1100		
2016-Sep	1387	3465		880	3056	
2016-Oct	3678			3527		

2016-Nov	5436			5567		
2016-Dec	7503	16617	49133	7422	16516	47410
2017-Jan	8098			8277		
2017-Feb	6468			7418		
2017-Mar	5764	20330		5596	21291	
2017-Apr	3752			3779		
2017-May	1733			1462		
2017-Jun	1030	6514		1033	6274	
2017-Jul	1054			929		
2017-Aug	1091			1069		
2017-Sep	1164	3310		957	2955	
2017-Oct	3810			3631		
2017-Nov	6485			6055		
2017-Dec	7139	17434	47588	7625	17312	47831
2018-Jan	8368			7854		
2018-Feb	7313			7467		
2018-Mar	5793	21474		5537	20858	
2018-Apr	3630			3776		
2018-May	1270			1353		
2018-Jun	981	5881		952	6081	
2018-Jul	966			868		
2018-Aug	984			772		
2018-Sep	1481	3430		1056	2696	
2018-Oct	4170			3842		
2018-Nov	5304			5844		
2018-Dec	7272	16745	47530	7542	17227	46862
2019-Jan	7547			8025		
2019-Feb	7876			7541		
2019-Mar	5540	20963		5792	21358	
2019-Apr	4044			3580		
2019-May	1532			1449		
2019-Jun	913	6489		820	5849	
2019-Jul	845			718		
2019-Aug	953			1108		
2019-Sep	1033	2830		1143	2969	
2019-Oct	3392			3671		
2019-Nov	5875			5554		
2019-Dec	7525	16792	47074	7315	16540	46716
2020-Jan	8282			8175		
2020-Feb	7341			7336		
2020-Mar	5859	21482		5898	21410	
2020-Apr	3432			3657		
2020-May	883			1373		
2020-Jun	627	4943		729	5759	
2020-Jul	622			769		
2020-Aug	683			746		
2020-Sep	218	1524		694	2209	
2020-Oct	3152			3306		
2020-Nov	5488			5550		
2020-Dec	7498	16138	44086	7481	16338	45715
2021-Jan	7976			8217		
2021-Feb	7937			7616		
2021-Mar	5859	21772		5807	21640	
2021-Apr	3432			3585		
2021-May	883			1209		
2021-Jun	627	4943		802	5596	
2021-Jul	622			755		
2021-Aug	683			581		
2021-Sep	218	1524		652	1987	
2021-Oct	3152			3177		
2021-Nov	5488			5383		
2021-Dec	7498	16138	44376	7285	15845	45068
2022-Jan	7976			8351		
2022-Feb	7937			7545		
2022-Mar	5859	21772		5890	21786	
2022-Apr	3432			3572		

2022-May	883			1219		
2022-Jun	627	4943		781	5571	
2022-Jul	622			702		
2022-Aug	683			564		
2022-Sep	218	1524		659	1925	
2022-Oct	3152			3174		
2022-Nov	5488			5372		
2022-Dec	7498	16138	44376	7302	15847	45129
Total	468440			372259		
Average	3904			3878		
Minimum	218			564		
Maximum	8601			8351		

Forecast Data

Date	**2.5 Lower**	**Forecast**	**Quarterly**	**Annual**	**97.5 Upper**	**Stat. forecast**
2023-Jan	7830	8351			8872	8351
2023-Feb	7046	7580			8115	7580
2023-Mar	5247	5782	21714		6318	5782
2023-Apr	2990	3526			4062	3526
2023-May	679	1215			1751	1215
2023-Jun	298	834	5575		1369	834
2023-Jul	190	726			1261	726
2023-Aug	28	563			1099	563
2023-Sep	70	606	1895		1142	606
2023-Oct	2592	3144			3696	3144
2023-Nov	4881	5436			5991	5436
2023-Dec	6814	7381	15960	45144	7947	7381
2024-Jan	7613	8182			8752	8182
2024-Feb	6910	7494			8077	7494
2024-Mar	5044	5628	21304		6212	5628
2024-Apr	2954	3539			4123	3539
2024-May	729	1314			1898	1314
2024-Jun	254	838	5690		1422	838
2024-Jul	130	716			1301	716
2024-Aug	93	679			1265	679
2024-Sep	38	627	2021		1215	627
2024-Oct	2670	3260			3850	3260
2024-Nov	4862	5452			6043	5452
2024-Dec	6761	7351	16064	45079	7942	7351
2025-Jan	7514	8105			8696	8105
2025-Feb	6813	7405			7996	7405
2025-Mar	5027	5619	21129		6211	5619
2025-Apr	2950	3542			4134	3542
2025-May	690	1282			1874	1282
2025-Jun	231	823	5647		1416	823
2025-Jul	129	721			1314	721
2025-Aug	91	683			1276	683
2025-Sep	72	664	2069		1257	664
2025-Oct	2691	3284			3878	3284
2025-Nov	4895	5488			6081	5488
2025-Dec	6747	7340	16112	44958	7933	7340
Total		135181				135181
Average		3755				3755
Minimum		563				563
Maximum		8351				8351



Forecast Report for SDFB(Thm/Cust)

Description: SDFB(Thm/Cust)

Model Details

Dynamic regression
Regression(9 regressors, 2 lagged errors)

Term	Coefficient	Normalized	Elasticity	Std. Error	t-Statistic	Percentile
M1	20523	0.6947	0.1099	322.5	63.63	1
M2	19160	0.6486	0.1026	322.8	59.35	1
M3	14280	0.5072	0.08494	308.8	46.24	1
M4	8315	0.2953	0.04946	292.1	28.46	1
M5	1965	0.06977	0.01169	278.3	7.059	1
M10	6506	0.2311	0.0387	278.5	23.36	1
M11	12543	0.4455	0.07461	291.9	42.98	1
M12	18464	0.6558	0.1098	308	59.96	1
2QL-MS-R-Gross St	0.01827	0.03368	0.4182	0.000536	34.1	1
_AUTO[- 1]	0.2066			0.09483	2.179	0.9684
_AUTO[- 2]	0.1893			0.09411	2.012	0.9533

Within-Sample Statistics

Sample size	118	No. parameters	11
Mean	14245.46	Std. deviation	7875
R-square	0.99	Adj. R-square	0.99
Durbin-Watson	2	Ljung-Box(18)	31.0 P=0.97
Forecast error	815.29	BIC	969.69
MAPE	4.62	SMAPE	4.59
RMSE	776.36	MAD	573.31
MAD/Mean Ratio	0.04		

Variable Specification Test Battery

Term	Test Value	Percentile
M6	0.1602	0.311
M7	0.7586	0.6162
M8	0.000074	0.006847
M9	0.2283	0.3672
2018	1.402	0.7637
2018Trend	0.8281	0.6372
2018Q-Trend	0.7974	0.6281
2018A-Trend	0.908	0.6594
2QL-MS-Net Migration	1.017	0.6867
2QL-MS-Population	0.1351	0.2868
2QL-MS-Housing Starts-Total	0.02914	0.1355
2QL-MS-Housing Starts-Single-F	0.3458	0.4435
2QL-MS-Housing Starts-Multi-F	0.01014	0.08022

2QL-MS-Households	0.1533	0.3046
2QL-MS-Employment-Total Nonfarm	0.2577	0.3883
2QL-MS-Employment-Non-Manufacturing	0.2934	0.4119
2QL-MS-Employment-Service Providing	0.3871	0.4662
2QL-MS-Employment-Manufacturing	0.03832	0.1552
2QL-MS-Employment-Wholesale Trade	0.04678	0.1712
2QL-MS-Employment-Retail Trade	0.01831	0.1076
2QL-MS-LaborForce	0.000343	0.01478
2QL-MS-LaborForce-PartRate	0.06247	0.1974
2QL-MS-Unemployment Rate	0.2155	0.3575
2QL-MS-Number Unemployed	0.1642	0.3147
2QL-MS-R-Median Household Income	0.1826	0.3308
2QL-MS-R-Personal Income	0.008345	0.07279
2QL-MS-R-Disp-Personal Income	0.09658	0.244
2QL-MS-R-GSP Manufacturing	1.562	0.7886
2QL-MS-R-GSP Wholesale Trade	0.0101	0.08006
2QL-MS-R-GSP Retail Trade	1.557	0.7879
2QL-MS-R-GSP Estate, Rental, Leasing	0.4937	0.5177
2QL-MS-Ind Prod Index Total	0.09585	0.2431
2QL-MS-New Passenger Car Registratio	0.03999	0.1585
2QL-MS-R-Retail Sales	0.7572	0.6158
2QL-MS-R-Ind Prod Index Total	0.01944	0.1109
2QL-MP-Population	0.07383	0.2142
2QL-MP-Housing Starts-Total	0.123	0.2742
2QL-MP-Housing Starts-Single-F	0.5279	0.5325
2QL-MP-Housing Starts-Multi-F	0.00284	0.0425
2QL-MP-Households	0.2002	0.3455
2QL-MP-Employment-Total Nonfarm	0.6928	0.5948
2QL-MP-Employment-Non-Manufacturing	0.7585	0.6162
2QL-MP-Employment-Service Providing	0.8605	0.6464
2QL-MP-Employment-Construction	0.5067	0.5234
2QL-MP-Employment-Manufacturing	0.08088	0.2239
2QL-MP-Employment-Wholesale Trade	0.1015	0.25
2QL-MP-Employment-Retail	0.2498	0.3828
2QL-MP-Labor Force	0.01031	0.08089
2QL-MP-Labor Force-PartRate	0.07401	0.2144
2QL-MP-Unemployment Rate	0.1798	0.3284
2QL-MP-Number Unemployed	0.1335	0.2851
2QL-MP-R-Personal Income	0.1967	0.3426
2QL-MP-R-Per Capita Personal Income	0.04424	0.1666
2QL-MP-R-Disposable Personal Income	0.4012	0.4735
2QL-MP-R-Median Household Income	0.4911	0.5166
2QL-MP-R-Gross Metropolitan Product	0.5682	0.549
M2[-1]	0.01471	0.09653
M4[-1]	0.01471	0.09653
M5[-1]	0.1789	0.3277
M10[-1]	0.01471	0.09653
M12[-1]	0.01471	0.09653
2QL-MS-R-Gross State Product[-1]	0.2333	0.3709
_CONST	0.2937	0.4122
_TREND	0.1434	0.2951

Variable specification tests successful.

Dynamics Test Battery

Term	Test Value	Percentile	
SDFB(Thm/Cust)[-1]	0.2017	0.3466	
SDFB(Thm/Cust)[-2]	0.6294	0.5724	
SDFB(Thm/Cust)[-3]	0.8003	0.629	
SDFB(Thm/Cust)[-4]	0.7208	0.6041	
SDFB(Thm/Cust)[-5]	0.8926	0.6552	
SDFB(Thm/Cust)[-6]	4.31	0.9621	*
SDFB(Thm/Cust)[-7]	1.231	0.7327	
SDFB(Thm/Cust)[-8]	0.9502	0.6703	
SDFB(Thm/Cust)[-9]	0.67	0.587	

SDFB(Thm/Cust)[-10]	1.137	0.7138	
SDFB(Thm/Cust)[-11]	3.19	0.9259	
SDFB(Thm/Cust)[-12]	3.253	0.9287	
SDFB(Thm/Cust)[-24]	3.703	0.9457	
_AUTO[-3]	0.01764	0.1057	
_AUTO[-4]	0.8666	0.6481	
_AUTO[-5]	0.6516	0.5804	
_AUTO[-6]	3.444	0.9365	
_AUTO[-7]	0.7179	0.6032	
_AUTO[-8]	6.147	0.9868	*
_AUTO[-9]	0.6346	0.5743	
_AUTO[-10]	1.338	0.7527	
_AUTO[-11]	1.015	0.6862	
_AUTO[-12]	0.8286	0.6373	
_AUTO[-24]	4.755	0.9708	*
Common factor test Chi Square(4)	1.247	0.1297	

Percentile

Historic Data

Date	Historic	Quarterly	Annual	Fitted	Quarterly	Annual
2013-Jan	27174					
2013-Feb	24316					
2013-Mar	19632	71122		19905	19905	
2013-Apr	15601			13702		
2013-May	8018			7779		
2013-Jun	6059	29678		5920	27401	
2013-Jul	5664			5683		
2013-Aug	5726			5623		
2013-Sep	6130	17521		5577	16884	
2013-Oct	11751			12190		
2013-Nov	17920			18124		
2013-Dec	23026	52697	171018	23911	54225	118414
2014-Jan	22953			25833		
2014-Feb	24313			23903		
2014-Mar	18750	66015		19205	68942	
2014-Apr	14132			13634		
2014-May	8148			7428		
2014-Jun	6026	28306		5795	26857	
2014-Jul	5699			5837		
2014-Aug	5472			5732		
2014-Sep	4931	16102		5619	17188	
2014-Oct	11006			11969		
2014-Nov	16801			17845		
2014-Dec	23649	51455	161878	23658	53472	166459
2015-Jan	26971			25880		
2015-Feb	23908			24965		
2015-Mar	19766	70645		19985	70830	
2015-Apr	14529			13864		
2015-May	8705			7785		
2015-Jun	5813	29047		6055	27705	
2015-Jul	5741			5958		
2015-Aug	5718			5787		
2015-Sep	5718	17177		5783	17528	
2015-Oct	10702			12295		
2015-Nov	17603			18003		
2015-Dec	23934	52239	169107	23806	54104	170166
2016-Jan	26164			26108		
2016-Feb	25016			24870		
2016-Mar	19983	71164		20075	71053	
2016-Apr	13811			14124		
2016-May	8231			7712		
2016-Jun	5781	27822		5876	27712	
2016-Jul	5385			5930		
2016-Aug	5646			5748		

2016-Sep	6024	17054		5722	17399	
2016-Oct	11615			12354		
2016-Nov	19198			18282		
2016-Dec	24598	55412	171452	24355	54991	171156
2017-Jan	26982			26603		
2017-Feb	23725			25238		
2017-Mar	20221	70928		20051	71893	
2017-Apr	13803			14032		
2017-May	8152			7837		
2017-Jun	5976	27932		5927	27796	
2017-Jul	5493			6017		
2017-Aug	6134			5887		
2017-Sep	6128	17755		5937	17841	
2017-Oct	12559			12570		
2017-Nov	19625			18574		
2017-Dec	24257	56441	173055	24683	55826	173356
2018-Jan	28167			26663		
2018-Feb	25164			25432		
2018-Mar	20088	73419		20555	72650	
2018-Apr	14155			14233		
2018-May	6889			7878		
2018-Jun	5580	26624		5750	27860	
2018-Jul	5587			5725		
2018-Aug	5909			5868		
2018-Sep	6733	18229		5952	17544	
2018-Oct	13316			12705		
2018-Nov	18147			18923		
2018-Dec	26147	57610	175882	24621	56250	174304
2019-Jan	25546			26893		
2019-Feb	27017			25383		
2019-Mar	19732	72295		20594	72869	
2019-Apr	15984			14679		
2019-May	9621			8327		
2019-Jun	7095	32700		6778	29785	
2019-Jul	6762			6661		
2019-Aug	7137			6474		
2019-Sep	7679	21578		6479	19614	
2019-Oct	14272			13161		
2019-Nov	18432			19334		
2019-Dec	25185	57889	184463	24895	57390	179658
2020-Jan	29206			26777		
2020-Feb	26658			25991		
2020-Mar	21331	77195		21250	74018	
2020-Apr	13548			14980		
2020-May	7073			8166		
2020-Jun	5952	26573		5831	28977	
2020-Jul	5846			5985		
2020-Aug	5981			6086		
2020-Sep	5735	17562		6065	18135	
2020-Oct	13269			12524		
2020-Nov	19212			18573		
2020-Dec	24537	57019	178349	24543	55640	176770
2021-Jan	26020			26359		
2021-Feb	25120			24961		
2021-Mar	21331	72472		20202	71522	
2021-Apr	13548			14629		
2021-May	7073			8088		
2021-Jun	5952	26573		5752	28469	
2021-Jul	5846			5921		
2021-Aug	5981			6066		
2021-Sep	5735	17562		6084	18071	
2021-Oct	13269			12577		
2021-Nov	19212			18828		
2021-Dec	24537	57019	173625	24967	56372	174434
2022-Jan	26020			26919		
2022-Feb	25120			25291		

2022-Mar	21331	72472		20377	72587	
2022-Apr	13548			14719		
2022-May	7073			8227		
2022-Jun	5952	26573		5913	28860	
2022-Jul	5846			6078		
2022-Aug	5981			6203		
2022-Sep	5735	17562		6203	18484	
2022-Oct	13269			12682		
2022-Nov	19212			18879		
2022-Dec	24537	57019	173625	24971	56532	176463
Total	1732454			1681179		
Average	14437			14247		
Minimum	4931			5577		
Maximum	29206			26919		

Forecast Data

Date	**2.5 Lower**	**Forecast**	**Quarterly**	**Annual**	**97.5 Upper**	**Stat. forecast**
2023-Jan	25363	26884			28406	26884
2023-Feb	23930	25483			27037	25483
2023-Mar	19067	20660	73028		22254	20660
2023-Apr	13109	14708			16306	14708
2023-May	6783	8385			9986	8385
2023-Jun	4838	6441	29533		8043	6441
2023-Jul	4859	6462			8064	6462
2023-Aug	4850	6453			8055	6453
2023-Sep	4841	6444	19358		8046	6444
2023-Oct	11338	12941			14544	12941
2023-Nov	17372	18975			20577	18975
2023-Dec	23290	24893	56809	178728	26496	24893
2024-Jan	25346	26949			28551	26949
2024-Feb	23986	25589			27191	25589
2024-Mar	19108	20711	73248		22313	20711
2024-Apr	13146	14749			16351	14749
2024-May	6806	8409			10012	8409
2024-Jun	4853	6455	29613		8058	6455
2024-Jul	4864	6466			8069	6466
2024-Aug	4874	6476			8079	6476
2024-Sep	4884	6487	19429		8089	6487
2024-Oct	11401	13003			14606	13003
2024-Nov	17448	19051			20654	19051
2024-Dec	23381	24983	57038	179328	26586	24983
2025-Jan	25450	27053			28655	27053
2025-Feb	24097	25700			27302	25700
2025-Mar	19226	20828	73581		22431	20828
2025-Apr	13271	14873			16476	14873
2025-May	6931	8533			10136	8533
2025-Jun	4977	6579	29986		8182	6579
2025-Jul	4987	6590			8192	6590
2025-Aug	4998	6600			8203	6600
2025-Sep	5008	6610	19800		8213	6610
2025-Oct	11525	13127			14730	13127
2025-Nov	17571	19174			20777	19174
2025-Dec	23503	25106	57407	180774	26708	25106
Total		538830				538830
Average		14967				14967
Minimum		6441				6441
Maximum		27053				27053