

March 30, 2022

VIA ELECTRONIC FILING

Honorable Michelle L. Phillips, Secretary
New York State Public Service Commission
Three Empire State Plaza
Albany, New York 12223-1350

Re: Case 19-G-0309 – Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of The Brooklyn Union Gas Company d/b/a National Grid NY for Gas Service

Case 19-G-0310 – Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of KeySpan Gas East Corporation d/b/a National Grid for Gas Service

Annual Leak Prone Pipe (LPP) Prioritization, Type 3 Leak, and Capital Report

Dear Secretary Phillips:

Pursuant to Section IV.5.12 of the Joint Proposal approved by the Commission in its *Order Adopting Terms of Joint Proposal and Establishing Gas Rate Plans*, dated August 12, 2021, in the above-captioned matters, The Brooklyn Union Gas Company d/b/a National Grid NY (“KEDNY”) and KeySpan Gas East Corporation d/b/a National Grid (“KEDLI”) (collectively, the “Companies”) hereby submit the annual LPP Prioritization, Type 3 Leak, and Capital Plan Report.

The LPP prioritization summaries for fiscal year 2023 and five-year capital plans (fiscal years 2023-2027) are attached hereto.

The number of Type-3 leaks on each system as of March 15, 2022 is as follows:

Company	Type 3 Leaks
KEDNY	1,944
KEDLI	4,898

Please let me know if you have any questions regarding this letter. Thank you for your time and attention in this matter.

Sincerely,

/s/ Kara J. Krueger

Kara J. Krueger
National Grid

300 Erie Blvd. West, A4
Syracuse, New York 13202

Enc.

cc: Active Parties in Cases 19-G-0309 and 19-G-0310 (via DMM)
Mary Ann Sorrentino, DPS Staff (via email)

The Brooklyn Union Gas Company d/b/a National Grid NY
FY 2023 Leak Prone Pipe Prioritization Summary

Municipality	On_Street	Street_From	Street_To	LPP_Length	Estimated Cost, (\$000's)
Brooklyn	MARION ST	ROCKAWAY AVE	BORADWAY	659	\$1,091
Brooklyn	East 48th St	Avenue D	Beverly Rd	1,484	\$2,457
Brooklyn	EAST 72 ST	AVENUE K	AVENU M	1,882	\$3,116
Brooklyn	Westminster Rd	Church Ave	Cortelyou Rd	2,550	\$4,222
Brooklyn	President St	Columbia St	Clinton St	868	\$1,437
Brooklyn	FRANK CT	LOIS AVE	DEADEND	223	\$369
Brooklyn	IRVING AVE	MADISON ST	HALSEY ST	1,240	\$2,053
Brooklyn	Montgomery Pl, Carroll St, 8th Ave, Prospect Park W	Garfield Pl	President St	1,876	\$3,106
Brooklyn	78th St	12th Ave	14th Ave	1,426	\$2,361
Brooklyn	47 ST	14 AVE	15 AVE	1,370	\$2,268
Brooklyn	E 28th St, E 29th St	Avenue U	Avenue W	2,321	\$3,843
Brooklyn	MYRTLE AVE	KENT AVE	BEDFORD AVE	1,276	\$2,113
Brooklyn	HENRY ST	NELSON ST	MILL ST	582	\$964
Brooklyn	BAY 46 ST	BATH AVE	CROPSEY AVE	1,216	\$2,013
Brooklyn	47 ST	2 AVE	5 AVE	1,610	\$2,665
Brooklyn	South 5th St, Marcy Ave	South 4th St	Broadway	700	\$1,159
Brooklyn	72 ST	13 AVE	15 AVE	1,176	\$1,947
Brooklyn	Crescent St, Wharton Pl, Cox Pl, Cypress Ct	Jamaica Ave	Etna St	2,161	\$3,578
Brooklyn	QUINCY ST	STUYVESANT AVE	BROADWAY	1,957	\$3,240
Brooklyn	Noel Ave	Lois Ave	(Deadend)	185	\$306
Brooklyn	EAST 12 ST	AVENUE I	DEAD END	473	\$783
Brooklyn	Beacon Ct	Lois Ave	(deadend)	570	\$944
Brooklyn	EAST 38 ST - KINGS HWY	AVE L - EAST 38 ST	KINGS HWY - FLATBUSH AVE	701	\$1,161
Brooklyn	IVAN CT	SEBA AVE	DEADEND	190	\$315
Queens	174 ST	109 AVE	SAYRES AVE	1,468	\$2,430
Queens	49 AVE / 106 ST	CORONA AVE	111 ST	1,381	\$2,286
Queens	66th St	53rd Dr	52nd Rd	1,908	\$3,159
Queens	Jamaica Ave	216 St	215 St	459	\$760
Queens	105 ST	ASTORIA BLVD	37 AVE	1,933	\$3,200
Queens	79 St	Caldwell ave	62 ave	1,173	\$1,942
Queens	Jamaica Ave/Union Hall Pl	161st St	162nd St	679	\$1,124
Queens	80th St	Park Lane South	Jamaica Ave	2,078	\$3,440
Queens	37th Ave, 37th Rd, 107th St	104th St	108th St	1,529	\$2,531
Queens	208th St, 207th St, 90th Ave	Hillside Ave	90th Ave	1,017	\$1,684
Queens	54th Ave, 53rd Dr	66th St	69th St	1,565	\$2,591
Queens	112 AVE	223 ST	CROSS ISLAND PKWY	1,474	\$2,440
Queens	HIMROD ST	GRANDVIEW AVE	METROPOLITAN AVE	931	\$1,541
Queens	65 PL, CLARAN CT	CLARAN CT	JAY AVE	674	\$1,116
Queens	52nd Dr, 53rd Ave, 68th St	66th St	69th St	2,230	\$3,692
Queens	133 AVE, 132 RD, 217 ST, 218, ST And 219 ST	SPRINGFIELD BLVD	220 ST	1,499	\$2,482
Queens	Alderton St	Dieterle Cresc	Dieterle Cresc	3,250	\$5,381
Queens	135 Ave / 218 St	SPRINGFIELD BLVD	223 ST	1,683	\$2,786
Queens	63 AVE	WOODHAVEN BLVD	84 ST	3,262	\$5,401
Queens	CORONA AVE	JUNCTION BLVD	98 PL	1,212	\$2,007
Queens	62 Ave	Yellowstone Blvd	Colonial Ave	1,554	\$2,573
Queens	71 ST - 35 Ave	NORTHERN BLVD - 70 St	35 AVE - 72 St	1,509	\$2,498
Richmond	Forest Ave	Bement Ave	Bard Ave	1,451	\$2,402
Richmond	Forest Ave	Clove Rd	Broadway	1,445	\$2,392
Richmond	Albert Street, Marx Street	Walters Avenue	Aymar Avenue	1,430	\$2,367
Richmond	FOREST AVE / NORTH BURGHER AVE	BROADWAY / DELAFIELD AVE	BEMENT AVE / MORRISON AVE	1,884	\$3,119
Richmond	Clove Rd/Britton Ave/Hanover Ave/Weser Ave/Elbe Ave	Targee St	Elbe St	2,062	\$3,414
Richmond	Byrne Ave, Purdy Ave	Victory Blvd	North Gannon Ave	1,775	\$2,939
Richmond	Aymar Ave, Cypress Ave, Bristol Ave	Little Clove Rd	Cypress Ave	2,200	\$3,642
Richmond	Little Clove Rd and Walters Ave	Victroy Blvd	Albert St	495	\$820
Richmond	Livermore Ave	Lathrop Ave	North Ave	1,533	\$2,538
			Total Retirement Footage	77,439	\$128,207
			Total Retirement Mileage	14.7	

Notes:

- 1 This report contains only the proposed proactive/storm hardening LPP replacements.
- 2 The Company may choose to accelerate or delay the timing of certain replacement projects listed above during the year based on circumstances (e.g., availability of capital resources, opportunities arising that allow the coordination of LPP replacement with other work, or leak activity).
- 3 Estimates are based on average unit costs that may vary due to job-specific circumstances.
- 4 KEDNY uses Procedure ENG-04030 Identification, Evaluation, and Prioritization of Distribution Main Segments to identify mains and associated services for replacement.

The Brooklyn Union Gas Company d/b/a National Grid NY
Direct Capital Expenditures (CAPEX and COR)
\$000

	FY23	FY24	FY25	FY26	FY27
Customer Connections					
Customer Connections - Install Main	\$ 14,378	\$ 14,717	\$ 13,695	\$ 12,624	\$ 11,503
Customer Connections - Install Services	\$ 44,704	\$ 45,598	\$ 42,150	\$ 38,545	\$ 34,779
Customer Connections - Customer Contributions	\$ (1,097)	\$ (1,119)	\$ (1,034)	\$ (946)	\$ (853)
Customer Connections - Install Meter/Regulator	\$ 1,147	\$ 1,170	\$ 1,082	\$ 989	\$ 893
Customer Connections - Meter Purchases	\$ 1,838	\$ 1,875	\$ 1,733	\$ 1,585	\$ 1,430
Customer Connections - Automatic Meter Reading (AMR)	\$ 738	\$ 753	\$ -	\$ -	\$ -
Customer Connections - LGA Delta Reconstruction	\$ 199	\$ -	\$ -	\$ -	\$ -
Gas System Reinforcement	\$ 42,524	\$ 43,375	\$ 52,351	\$ 51,927	\$ 43,740
Gas System Reinforcement - Corona Gate Outlet Reconfigure	\$ 9,525	\$ -	\$ -	\$ -	\$ -
Gas System Reinforcement - LTN11751 - Kew Gardens Gate	\$ 250	\$ 5,600	\$ 18,500	\$ -	\$ -
Gas System Reinforcement - LTN11986 - Flatbush Gate Station	\$ -	\$ 150	\$ 600	\$ 22,220	\$ -
Gas System Reinforcement - LTN12025 - Belmont Gate Station	\$ 720	\$ 5,130	\$ 20,510	\$ -	\$ -
Gas System Reinforcement - LTN13276 - Jamaica - 175 St Transmission Main	\$ -	\$ 100	\$ 520	\$ 9,910	\$ -
	\$ 114,926	\$ 117,349	\$ 150,107	\$ 136,854	\$ 91,493
Mandated					
Access Protection Remediation	\$ 200	\$ -	\$ -	\$ -	\$ -
Atmospheric Corrosion Inside Inspections (Remediation)/Wall Sleeve	\$ 1,194	\$ 1,392	\$ 658	\$ 671	\$ 685
Corrosion	\$ 668	\$ 682	\$ 695	\$ 709	\$ 724
Cross Bore Remediation	\$ 156	\$ 159	\$ -	\$ -	\$ -
CSC/Public Works - Non Reimbursable	\$ 188,800	\$ 193,138	\$ 197,037	\$ 200,978	\$ 204,998
CSC/Public Works - Reimbursable	\$ 114,786	\$ 117,081	\$ 119,423	\$ 121,811	\$ 124,248
CSC/Public Works - Flatlands - SE853 Phase 2 - Trans Offset Louisiana Ave & Georgia Ave	\$ 1,589	\$ -	\$ -	\$ -	\$ -
CSC/Public Works - SE856 Phase 2 Trans. Offset Sheffield & New Jersey Ave. - Trans Work	\$ -	\$ 36,000	\$ 36,000	\$ -	\$ -
Inactive Accounts	\$ 293	\$ 299	\$ 305	\$ 311	\$ 317
Large Diameter Pipe Rehabilitation	\$ 14,219	\$ 15,026	\$ 15,635	\$ 15,947	\$ 16,267
Large Diameter Pipe Rehabilitation - CISBOT	\$ 5,826	\$ 5,952	\$ 6,061	\$ 6,168	\$ 6,275
Latent Damage	\$ 432	\$ 441	\$ 449	\$ 458	\$ 468
Low Pressure Main Valve Installation	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500
Low Pressure System Elimination - Proactive	\$ -	\$ 500	\$ 2,000	\$ 4,000	\$ 4,080
Main Replacement - Proactive - Leak Prone Pipe	\$ 122,381	\$ 187,243	\$ 198,478	\$ 233,637	\$ 240,646
Main Replacement - Reactive - Maintenance	\$ 5,051	\$ 5,152	\$ 5,255	\$ 5,360	\$ 5,467
Meter Changes	\$ 3,560	\$ 3,631	\$ 3,704	\$ 3,778	\$ 3,854
Pipeline Integrity - IMP	\$ -	\$ -	\$ -	\$ 13,813	\$ 14,090
Pipeline Integrity - IMP - Clove Lakes Receiver ILI	\$ 865	\$ -	\$ -	\$ -	\$ -
Pipeline Integrity - IMP - Jamaica Bay Line ILI	\$ 7,730	\$ 9,992	\$ 18,966	\$ -	\$ -
Pipeline Integrity - IMP - Southern Line Robotic ILI	\$ 10,921	\$ 16,000	\$ 11,125	\$ 50	\$ -
Pipeline Integrity - IVP	\$ 6,737	\$ 16,450	\$ 1,487	\$ 3,450	\$ 6,200
Pipeline Integrity - IVP - Clove Lakes Line AO Smith pipe replacement	\$ 1,201	\$ 14,400	\$ 14,000	\$ 250	\$ -
Pipeline Integrity - IVP - Reactive Main Replacement	\$ 520	\$ 531	\$ 541	\$ 552	\$ 563
Purchase Meters (Replacements)	\$ 4,986	\$ 6,632	\$ 6,764	\$ 6,900	\$ 7,038
Replace Pipe on Bridges	\$ 500	\$ 2,510	\$ 2,060	\$ -	\$ -
Service Replacement - Reactive - Leaks	\$ 6,500	\$ 6,630	\$ 6,763	\$ 6,898	\$ 7,036
Service Replacement - Reactive - Non-Leaks - Other	\$ 5,436	\$ 5,544	\$ 5,655	\$ 5,768	\$ 5,884
Service Replacement - Reactive - Soft-Off Process (Cutoffs)	\$ 181	\$ 184	\$ 188	\$ 192	\$ 196
Transmission Station Integrity - PHMSA	\$ 6,097	\$ 13,808	\$ 26,899	\$ 26,091	\$ 18,310
Transmission Station Integrity - Over Pressure Protection - Transco Narrows	\$ -	\$ 200	\$ 5,000	\$ -	\$ -
Valve Installation/Replacement	\$ 146	\$ 149	\$ 152	\$ 155	\$ 158
	\$ 512,474	\$ 661,226	\$ 686,801	\$ 659,448	\$ 669,001
Reliability					
CNG - CNG Fill - Brooklyn - Canarsie - Compressor Upgrade, New Controls	\$ -	\$ -	\$ 500	\$ 3,500	\$ 500
CNG - CNG Fill - Brooklyn - Greenpoint - Station Upgrade	\$ 500	\$ 3,000	\$ 2,000	\$ -	\$ -
CNG - CNG Fill - KEDNY Blanket	\$ 500	\$ 510	\$ 400	\$ 408	\$ 200
Distribution Station - Over Pressure Protection	\$ 269	\$ 276	\$ 283	\$ 290	\$ 297
Future of Heat - Newtown Creek	\$ 5,300	\$ -	\$ -	\$ -	\$ -
Gas Planning	\$ 7,707	\$ 7,861	\$ 8,325	\$ 8,611	\$ 5,794
Gas Planning - LTN10074 - Clove Lakes Uprate / Looping	\$ 1,500	\$ 45,000	\$ 75,000	\$ 75,000	\$ 75,000
Gas Planning - LTN10205 - MRI - PM - Main Phase 1 - 4	\$ 7,000	\$ -	\$ -	\$ -	\$ -
Gas Planning - LTN10205 - MRI - PM - Main Phase 5	\$ -	\$ 4,000	\$ 30,000	\$ 25,225	\$ -
Gas Planning - LTN11690 - LGA Backfeed	\$ 100	\$ 228	\$ 8,654	\$ -	\$ -
Gas Planning - LTN12033 - Red Hook Reliability	\$ -	\$ -	\$ -	\$ 250	\$ 1,000
Gas Planning - RCV - LTN11044 - RCV BQ1243	\$ 300	\$ 3,600	\$ -	\$ -	\$ -
Gas Planning - RCV - LTN11726 - RCV BQ1238 and BQ1014	\$ 200	\$ 600	\$ 5,200	\$ -	\$ -
Gas Planning - RCV - LTN11755 - RCV BQ1009 and BQ1010	\$ 600	\$ 5,200	\$ -	\$ -	\$ -
Gas Planning - RCV - LTN12029 - RCV BQ1005	\$ -	\$ 100	\$ 200	\$ 3,600	\$ -
Gas Planning - RCV - LTN12051 - RCV BQ1019	\$ -	\$ -	\$ 100	\$ 200	\$ 3,600
Gas System Control	\$ 120	\$ 122	\$ 125	\$ 127	\$ 130
Gas System Control - Facilities Upgrades	\$ -	\$ -	\$ -	\$ 167	\$ -
Gas System Control - MapBoard Replacement	\$ -	\$ 560	\$ -	\$ -	\$ -
Gas System Control - SCADA - Upgrade/Replacement	\$ -	\$ -	\$ 1,389	\$ 1,389	\$ 1,389
Heater Installation Program	\$ 825	\$ 1,350	\$ 900	\$ 750	\$ 765
Heater Installation Program - Tetco Heater #3 Replacement	\$ 1,317	\$ 50	\$ -	\$ -	\$ -
I&R - Reactive	\$ 539	\$ 549	\$ 560	\$ 571	\$ 583
I&R - Training and Test Lab	\$ 1,300	\$ -	\$ -	\$ -	\$ -
LNG - Barge Piping Decommissioning	\$ -	\$ -	\$ -	\$ 10	\$ 693
LNG - Blanket	\$ 2,713	\$ 2,764	\$ 2,820	\$ 2,876	\$ 2,934
LNG - Boiloff Heaters/Steam Boiler Upgrade	\$ 340	\$ 650	\$ 2,400	\$ 2,550	\$ -
LNG - Bulkhead Upgrade	\$ 550	\$ 1,050	\$ 800	\$ 785	\$ 1,165
LNG - Controls System Upgrade	\$ 250	\$ 9,098	\$ 14,651	\$ 7,757	\$ 106
LNG - Dike Stabilization Tank 1 East	\$ -	\$ -	\$ 100	\$ 500	\$ 3,000
LNG - Flare Refurbishment	\$ -	\$ -	\$ -	\$ -	\$ 10
LNG - Flare Heater Refurbishment	\$ -	\$ -	\$ -	\$ -	\$ 500

The Brooklyn Union Gas Company d/b/a National Grid NY
Direct Capital Expenditures (CAPEX and COR)
\$000

	FY23	FY24	FY25	FY26	FY27
LNG - Generators Upgrade	\$ 1,115	\$ 4,000	\$ 150	\$ -	\$ -
LNG - Greenpoint Vaporization Expansion 13 & 14 - Long Term Supply	\$ 16,571	\$ 6,100	\$ -	\$ -	\$ -
LNG - Hydrant & Deluge Piping Upgrade	\$ 300	\$ 778	\$ 2,685	\$ 11,700	\$ -
LNG - Liquefaction Mol Sieve Refurbishment	\$ 1,700	\$ -	\$ -	\$ -	\$ -
LNG - New Control Room	\$ -	\$ -	\$ 500	\$ 10,000	\$ 10,000
LNG - Nitrogen System Refurbishment	\$ 2,000	\$ 3,010	\$ -	\$ -	\$ -
LNG - Piping Insulation Replacement & Inspection	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
LNG - Plant Outlet Drip Leg	\$ 500	\$ 450	\$ -	\$ -	\$ -
LNG - Pump Upgrade (Tank 1)	\$ 800	\$ 500	\$ -	\$ -	\$ -
LNG - ReGen Heater Replacements	\$ -	\$ -	\$ -	\$ -	\$ 50
LNG - Relocate Maintenance Area & New Control Building	\$ 2,000	\$ 12,000	\$ 6,122	\$ 500	\$ -
LNG - RNG Blanket	\$ 400	\$ 200	\$ 204	\$ 208	\$ 212
LNG - Salt Water Pump House Upgrade	\$ 6,859	\$ 25,720	\$ 17,425	\$ 3,182	\$ -
LNG - Security System Upgrade	\$ 1,284	\$ 2,000	\$ 2,000	\$ 2,000	\$ -
LNG - Stormwater Drainage	\$ 100	\$ 100	\$ 3,000	\$ -	\$ -
LNG - Sub M - Sub L Interconnect	\$ 150	\$ 1,050	\$ -	\$ -	\$ -
LNG - Tail Gas Compressor Upgrade	\$ 1,250	\$ 1,270	\$ 2,472	\$ -	\$ -
LNG - Tank 2 Upgrade	\$ -	\$ -	\$ 3,705	\$ 5,558	\$ 9,623
LNG - Tank 2 Foundation Heaters	\$ 1,350	\$ 900	\$ 1,350	\$ 6,000	\$ 6,350
LNG - Tank IPC Coating Upgrade	\$ 421	\$ 421	\$ 421	\$ 421	\$ 421
LNG - Truck Load/Unload Station - Long Term Supply	\$ 6,130	\$ -	\$ -	\$ -	\$ -
LNG - Turbo Expander Generator	\$ -	\$ -	\$ -	\$ -	\$ 10
LNG - Vapor Suppression System	\$ 500	\$ 500	\$ 2,000	\$ 2,371	\$ -
LNG - Vaporizers 3 & 4 Replacement	\$ 3,453	\$ -	\$ -	\$ -	\$ -
LNG - Vaporizers 7 & 8 Replacement	\$ -	\$ 435	\$ 3,000	\$ 10,200	\$ 10,127
LNG - Vaporizers 9 & 10 Replacement	\$ -	\$ -	\$ -	\$ 100	\$ 2,000
Pressure Regulation Engineering - Proactive	\$ 17,861	\$ 7,499	\$ 34,370	\$ 13,924	\$ 14,299
Smart Residential Methane Detector Program	\$ 1,000	\$ 2,000	\$ 2,040	\$ 2,081	\$ 2,122
Storm Hardening - Install Remote Service Shutoff Valves	\$ 2,000	\$ 7,995	\$ 5,000	\$ 3,000	\$ -
System Automation	\$ 1,734	\$ 1,734	\$ 1,769	\$ 1,804	\$ 1,840
Transmission Main - Greenpoint	\$ 100	\$ 200	\$ 2,000	\$ 20	\$ -
Tunnel Integrity Mains - Citizens Gate - Tunnel Rehab	\$ 300	\$ -	\$ -	\$ -	\$ -
Water Intrusion	\$ 152	\$ 124	\$ 126	\$ 129	\$ 131
	\$ 102,959	\$ 166,554	\$ 245,746	\$ 208,765	\$ 155,851
Non Infrastructure					
Automatic Meter Reading (AMR) - Replacement	\$ 3,103	\$ 4,039	\$ 4,888	\$ 4,985	\$ 5,085
Future of Heat - Project C - Hydrogen project	\$ 1,600	\$ 4,000	\$ 4,080	\$ 4,162	\$ 4,245
Future of Heat - Geo Thermal	\$ 400	\$ 1,000	\$ 1,020	\$ 1,040	\$ 1,061
Future of Heat - Renewable Natural Gas (RNG) Interconnections	\$ 900	\$ 900	\$ 994	\$ 1,014	\$ 1,034
Smart Gas Meter - IS Integration	\$ -	\$ 3,000	\$ -	\$ -	\$ -
Telecomm - Comm site upgrades	\$ 50	\$ 51	\$ 52	\$ 53	\$ 55
Telecomm - Damaged Failure	\$ 13	\$ 14	\$ 14	\$ 14	\$ 55
Telecomm - Radio Capital Expenditures	\$ 63	\$ 65	\$ 66	\$ 67	\$ 14
Capital Equipment/Tools	\$ 2,384	\$ 2,431	\$ 2,480	\$ 2,529	\$ 2,580
Tools & Equipment - Construction	\$ 1,564	\$ 1,595	\$ 1,627	\$ 1,660	\$ 1,693
Tools & Equipment - Learning & Development	\$ 188	\$ 188	\$ -	\$ -	\$ -
Tools & Equipment - Meter Testing	\$ 108	\$ 110	\$ 112	\$ 114	\$ 116
	\$ 10,373	\$ 17,393	\$ 15,333	\$ 15,639	\$ 15,938
Total Capital Including Cost of Removal	\$ 740,733	\$ 962,522	\$ 1,097,986	\$ 1,020,707	\$ 932,282
Cost of Removal	\$ 24,444	\$ 31,763	\$ 36,234	\$ 33,683	\$ 30,765
Total Capital (Net of Removal)	\$ 716,288	\$ 930,759	\$ 1,061,753	\$ 987,023	\$ 901,517

KeySpan Gas East Corporation d/b/a National Grid
FY 2023 Leak Prone Pipe Prioritization Summary

Municipality	On Street	StreetFrom	StreetTo	LPLength	Estimated Cost, (\$000's)
Bellmore	WILLOUGHBY	N BROADWAY	BAY	886	\$368
Bellmore	NORTH RD / BELLMORE AVE / ANTHONY AVE	CLAXTON AVE	E ALDER RD	2,259	\$938
Bellmore	McLean Ave	Morgan Dr	Campbell Ave	1,443	\$599
Bellmore	Lottie Ave/Harrison Ave	Bay Ave/Herman Ave	Park Ave/Dead end	1,172	\$487
Bellmore	MILTON ST / MANGAN PL / BYRON PL / BURNS AVE	W JOHN ST	MANGAN PL	1,201	\$499
Bellmore	HAROLD AVE / OLD MILL RD / EWELL PL / VALENTINE	EWELL PL	GREENWAY AVE	2,193	\$911
Bellmore	KIRKWOOD AVE	BABYLON TPKE	HEWLETT AVE	1,113	\$462
Bellmore	Atlantic Ave	S Bayview Ave	S Ocean Ave	1,196	\$497
Bellmore	MASSAPEQUA AVE	MERRICK RD	CORNELIUS PL	1,085	\$451
Bellmore	CENTRE AVE / MILDRED PL / SUNRISE HWY / CLAREN	SUNRISE HWY	CLARENDON AVE	1,475	\$613
Bellmore	TERRY ST	TOBIAS ST	S DEAN ST	1,528	\$635
Bellmore	NORTH GATE / FORD DR W / AMBER DR	CARMANS RD / NORTH GATE / FORD DR W	FORD DR W / DENISE ST / ANN ROSE ST	852	\$354
Bellmore	HEMPSTEAD TPKE	W GATE	W OAK ST	407	\$169
Bellmore	SHERMAN PL / CAROL RD	N WANTAGH AVE	CAROL RD	906	\$376
Bellmore	BONWIT PL / E CARMANS RD / BIRCH AVE E	E CARMANS RD	BIRCH AVE E	3,136	\$1,303
Bellmore	N FORDHAM RD / FERNDALE DR / WOODBINE DR N /	WOODBINE DR N	MICHIGAN DR	2,965	\$1,232
Bellmore	ALBERMARLE AVE	NEWBRIDGE RD	JOHNSON PL	795	\$330
Bellmore	Saint Marks Ave	Atlantic Ave	Cedar St	1,082	\$449
Bellmore	Pine St	S Brookside Ave	Madison Ave	1,529	\$635
Bellmore	Division Ave	Cleveland Pl	Roosevelt Pl	728	\$302
Bellmore	Euclid Ave	Ocean Ave	Parkside Blvd	592	\$246
Bellmore	PROSPECT ST / CIRCLE DR	BERNARD ST	250 ft. E/O WEIDEN ST	929	\$386
Bellmore	Marine St	Baiting Place Rd	Adams Blvd	3,448	\$1,432
Bellmore	OHIO	KUHL	MYERS	704	\$292
Bellmore	ARGYLE RD	POST AVE	POST AVE	982	\$408
Bellmore	BEAUMONT DR / NETTO LN	PAL ST	NETTO LN	1,973	\$820
Bellmore	4th Ave	Hopper St	Near End of 4th Ave	1,444	\$600
Bellmore	LAKESHORE DR	GARFIELD ST	HARDING ST	476	\$198
Bellmore	THOMAS AVE / N 7TH ST / 8TH ST / 9TH ST	N 6TH ST	N 9TH ST	2,216	\$920
Bellmore	HUNT RD / WHITE BIRCH LN	WANTAGH AVE	COLRIDGE RD	1,873	\$778
Bellmore	NY109 FULTON ST	NELSON ST	NY110 BROADHOLLOW RD	5,364	\$2,228
Bellmore	HARRISON AVE / REMSEN AVE / FREDERICK AVE	GRAND AVE	REMSEN AVE	918	\$381
Bellmore	Park Ln	Violet St	Pittsburg Ave	3,294	\$1,368
Bellmore	Carrollton Ave	Wantagh Ave	Briard St	1,007	\$418
Bellmore	Michigan Ave / Detroit Ave / Forest Ave / Seaford Ave	Clark Ave	Pennsylvania Ave	4,402	\$1,828
Bellmore	Seamans Neck Rd / Hillcrest Dr / Whelan Pl	Keats Ct	Gilling Rd	1,846	\$767
Bellmore	Benjamin St	Duffy Ave	Border St	572	\$238
Bellmore	BRUCE AVE / JULIAN ST	HONVED ST	WOODBURY RD	2,632	\$1,093
Bellmore	CAMP AVE / BAKER AVE / KENSINGTON AVE	REMSON AVE	MERRICK AVE	1,685	\$700
Bellmore	Stuyvesant Ave / Madison St	Washington St	Deadend	1,473	\$612
Bellmore	DOCK	WESTEND	DEADEND	548	\$228
Bellmore	Myron Rd, Edison Dr, Briarwood Ln, Plainview Rd	Plainview Rd	Felice Ln	1,423	\$591
Bellmore	MITCHELL AVE	STEVEN ST	JEREMY AVE	954	\$396
Bellmore	LENT DR	CLEARWATER DR	LENT DR	808	\$336
Bellmore	Atlantic Ave, Miller Ave, Ray St, South Ocean Ave, ND	Atlantic Ave	Cedar St	2,705	\$1,124
Bellmore	N Columbus Ave, E Milton St, E Dean St, Rutland Rd	Seaman Ave	Grand Ave	2,465	\$1,024
Bellmore	PARK	DEADEND	LOTTIE	781	\$324
Bellmore	Pennsylvania Ave, New York Ave, Connecticut Ave, Cr	W Seaman Ave	Craig Ave	4,001	\$1,662
Bellmore	FENIMORE ST	MAPLE AVE	DEADEND	608	\$253
Bellmore	S Long Beach Ave, Smith St, Miller Ave, S Ocean Ave	W Merrick Rd	Rose St	3,586	\$1,490
Bellmore	Merrick Ave / Ripley Ln / KIRKWOOD	Berfon Ct / BABYLON	Kirkwood Ave /HEWLETT	2,851	\$1,184
Bellmore	Rose St, S Long Beach Ave, S Ocean Ave, Whaley St, A	Rose St	Atlantic Ave	3,814	\$1,584
Bellmore	Bond St	Summa St	Broadway	729	\$303
Bellmore	Hewlett Ave	Nancy Blvd	Loines Ave	8,842	\$3,673
Bellmore	Brookside Ave	Camp Ave	Elliot Pl	3,751	\$1,558
Hewlett	WESTBURY	SEAMAN	JACKSON	1,144	\$475
Hewlett	MEADOW DR - PINE ST - PORTER PL - MANOR LN - KE	BROADWAY - BROADWAY - MEADOW DR - PORTER P	KEENE LN - DEADEND - MANOR LN - KEENE LN - MAN	698	\$290
Hewlett	FENDALE ST / NAPLE AVE	FENWORTH BLVD / FENDALE ST	DEADEND / SEMPTON BLVD	1,309	\$544
Hewlett	Blake St	Merrick Rd	Hempstead Ave	660	\$274
Hewlett	WOOD / LEAMAN / WRIGHT / CRAB /	MERRICK	CRAB	4,284	\$1,779
Hewlett	REBECCA	SUNNYBROOK	SUNNYBROOK	852	\$354
Hewlett	Westcott St / Spaulding Ln	Mott Ave	sheridan Blvd	1,374	\$571
Hewlett	GARFIELD RD	GRAND AVE	SYLVIA AVE	1,117	\$464
Hewlett	Schenck Ln/ Schenck Cir	Schenck Cir	Everit Ave	1,650	\$685
Hewlett	CHRISTOPHER	HARVEY	FORTESQUE	1,081	\$449
Hewlett	JUDITH LN	EAST AVE	DOGWOOD RD	657	\$273
Hewlett	BEECH ST - W PARK AVE - MOHAWK AVE - ROCHESTE	MALONE AVE - NEVADA AVE - W PARK AVE - W PARK	OHIO AVE - OSWEGO AVE - W BEECH ST - W BEECH ST	6,088	\$2,529
Hewlett	Meyer Ave / Edna Pl	Shaw Ave	Jane Pl	1,363	\$566
Hewlett	S Franklin Ave	Broadway	Dead End	589	\$245
Hewlett	PINEBROOK AVE - LEHMAN - PARKSIDE - CEDAR - BEV	PINEBROOK CT - PINEBROOK - PINEBROOK - PARKSID	OCEAN - BEVERLY - DEADEND - LEHMAN - LEHMAN - I	4,284	\$1,779
Hewlett	ROOSEVELT AVE / DOUGLAS ST / CRESCENT ST / RHIN	DOUGLAS ST	MOTT AVE	1,475	\$613
Hewlett	LINDEN PL - CONLON RD - GRENADA AVE	CONLON RD - MEYER ST - CONLON RD	PARK AVE - LINDEN PL - ENNESS ST	1,793	\$745
Hewlett	CATHERINE	HEMPSTEAD	RUSSEL	708	\$294
Hewlett	Hempstead Tpke	Wellington Rd S	Greenway St S	1,900	\$789
Hewlett	W BEECH ST	LINDELL BLVD	NATIONAL BLVD	3,983	\$1,654
Hewlett	Cedarhurst Ave - Park Pl - Hudson Ave - Park Ave - Su	W Broadway - Cedarhurst Ave - Cedarhurst Ave - Ced	RailRoad - Linwood Ave - Linwood Ave - Linwood Ave	5,200	\$2,160
Hewlett	E Olive St	Lincoln Blvd	Neptune Blvd	1,366	\$567
Hewlett	Ormonde Blvd	Merrick Rd	Copague St	1,820	\$756
Hewlett	Williams St, Phoenix St, Ingraham Blvd	Front St (NY 102)	MacDonald St	1,879	\$780
Hewlett	UNION AVE - ROOSEVELT ST - CARPENTER AVE	ROOSEVELT ST - CARPENTER AVE - ROOSEVELT ST	SPENCER AVE - UNION AVE - ELBERT ST	1,111	\$461
Hewlett	Longacre Ave - Briar Pl	Dickens St - Longacre Ave	W Broadway - Deadend	1,349	\$560
Hewlett	LAFAYETTE BLVD - W MARKET ST - W CHESTER ST - LA	W FULTON ST - LAFAYETTE BLVD - LAURELTON BLVD	W PARK AVE - WASHINGTON BLVD - WASHINGTON B	3,788	\$1,573
Hewlett	Beach 13th St, Beach 12th St, Beach 9th St, Mott Ave	Caffrey Ave	Plainview Ave	2,385	\$991
Hewlett	SAPIR	N CENTRAL	EAST	430	\$179
Hewlett	Rockwood Ave	Sunrise Hwy	Merrick Rd	1,149	\$477
Hewlett	Sewell St / Madison Ave / Peninsula Blvd / Laurel Ave	S Franklin St / Maple Ave	Mirschel St / Chasner St	2,357	\$979
Hewlett	VINCENT	CENTRE	ELLA	737	\$306
Hewlett	Chestnut St	Merrick Rd	Brooklyn Ave	969	\$402
Hewlett	Stevens St, McMurray St, Gerken St	Woods Ave	Tilrose Ave	1,099	\$456
Hewlett	Foster Ave, Nottingham Ave, Burlington Pl, Beverly Pl	Ocean Ave	Ormonde Blvd	1,891	\$785
Hewlett	Grand Ave / Marshall Ave	Whitehall St	Merrick Rd	2,210	\$918
Hewlett	WASHINGTON AVE / NASSAU PKWY / ROCKVILLE CEN	BEDELL ST	ALLEN ST	1,553	\$645

KeySpan Gas East Corporation d/b/a National Grid
FY 2023 Leak Prone Pipe Prioritization Summary

Municipality	On Street	StreetFrom	StreetTo	LPLength	Estimated Cost, (\$000's)
Hewlett	INDIANA	W PARK	W BEECH	710	\$295
Hewlett	Chester St/Chester Pl/Chester Ct	Terrall Ave	Woods Ave	1,895	\$787
Hewlett	Green Acres Rd	Sidney PL	Green Acres Rd	1,210	\$503
Hewlett	Trafalgar Square / Cripps Ln / Rockaway Ave /Frederi	Piccadilly Downs	Horton Rd	2,132	\$886
Hewlett	Lincoln Rd	Robert St	Carol St	526	\$218
Hewlett	ALABAMA ST	W PARK AVE	OCEANVIEW ST	1,189	\$494
Hewlett	Carman Ave	Scranton Ave	Main Street	1,694	\$704
Hewlett	E OLIVE / MONROE / E BEECH	LONG BEACH	LINCOLN	2,761	\$1,147
Hewlett	Richards Ln, Club Dr, Birch Dr, Lake Dr	Albon Rd	Harbor Rd	1,736	\$721
Hewlett	Colony St	Woodfield Rd	Hempstead Ave	4,415	\$1,834
Hewlett	Willow Ave / Baldwin Road	Ingraham Street	Greenwich Street	1,951	\$810
Hewlett	FOXHURST RD - OCEANSIDE RD	LONG BEACH RD - FOXHURST RD	OCEANSIDE RD - ELIZABETH AVE	2,006	\$833
Hewlett	Central Ave	Rockaway Tpke	Rosalind Pl	1,936	\$804
Hewlett	MOTT	SHERIDAN	DOUGHTY	1,123	\$466
Hewlett	linwood Ave	Lido Blvd	Ocean Blvd	1,939	\$805
Hewlett	Greystone Rd	Winding Rd	N Long Beach Rd	4,075	\$1,693
Hewlett	Grand Ave	2515 Grand Ave	Thomas Ave	2,196	\$912
Hewlett	CARPENTER	N COTTAGE	CORNWELL	917	\$381
Hewlett	St James Pl / Southard Ave / Tarance St / Brower Ave	Brower Ave	Terrance St	2,146	\$891
Hewlett	Garden City	Ocean Blvd	Lido Blvd	1,970	\$818
Hewlett	SUNNYBROOK	AYERS	BROWER	1,704	\$708
Hewlett	COURT / REMSEN	COVERT	BEDFORD	646	\$268
Hewlett	N Grove St	E Euclid St	E St Marks Pl	1,941	\$806
Hewlett	Xavier Pl / Xavier Ct / Erwin Pl / Perry Ave / Dwight St	Oceanside Rd	Dwight St	2,814	\$1,169
Hewlett	Singleton Ave / Carman Ave	E Broadway	Brower Ave	1,324	\$550
Hewlett	FOREST ST / ARROW ST / PERRY AVE / LAKE ST	DWIGHT ST	ARROW ST	2,996	\$1,244
Hewlett	WYOMING	W PARK	W BEECH	718	\$298
Hewlett	O Street / P Street / Porter Street	N Street	P Street	886	\$368
Hewlett	Boxwood Ln	Central Ave	Dead End	632	\$263
Hewlett	Grant Ave / Carman Pl	Carman Ave	Grant Ave	756	\$314
Hewlett	E FAIRVIEW AVE	S COTTAGE ST	DEADEND	667	\$277
Hewlett	7th	Rockaway	Brooklyn	1,191	\$495
Hewlett	Alhambra Rd	Circle Dr	Brookside Ave	1,044	\$434
Hewlett	Gates Ave / Park Ave / Locust St / Pine St	Home St	Franklin Ave	2,731	\$1,134
Hewlett	MINEOLA AVE	BEECH ST	DEADEND	850	\$353
Hewlett	Lynbrook Ave	Lido Blvd	Dead End	1,966	\$817
Hewlett	LAKEVIEW AVE	PENINSULA BLVD	LAKESIDE DR	320	\$133
Hewlett	BEECH	CEDARHURST	MINEOLA	1,221	\$507
Hewlett	OCEAN	PARKSIDE	INWOOD	1,311	\$545
Roslyn	LODGE	SHOREWARD	SCHENCK	1,178	\$489
Roslyn	1st st - Woodnut Pl - Millington Pl - Krug Pl - Walker R	Fleet Pl - 1st st - 1st st - 1st st - 1st st - 1st st - 1st st -	White Rd - De Mott st - De Mott st - De Mott st - Garf	5,765	\$2,395
Roslyn	BERKLEY / CAROLYN	MARLENE	AVON	950	\$395
Roslyn	BIRCH ST / CARNATION AVE / WILLOW ST	CARNATION AVE	ASH ST	2,302	\$956
Roslyn	Lafayette Pl / Franklin Ave / Glenlawn Ct	Glenlawn Ave	Glenlawn Ave	1,073	\$446
Roslyn	Clinton Rd / Flower Rd / Pell Terrace	Old Country Rd	Pell Terrace	3,068	\$1,274
Roslyn	Locust Ln, Greenfield Rd, Jericho Tpke (NY 25)	Greenfield Rd	Dead End	985	\$409
Roslyn	OVERLOOK RD / SOUNDVIEW DR	UPLAND RD	SOUNDVIEW RD	1,266	\$526
Roslyn	PARK AVE - PARK PL - CHARLES ST - HENRY ST	WILLIAM ST - CHARLES ST - PARK AVE - PARK AVE	DEADEND - DEADEND - WILLIS AVE - WILLIS AVE	1,725	\$717
Roslyn	NASSAU - MUSGNUG - SCHUSTER	MCCELLAN - WILLIS - MUSGNUG	JERICHO - NASSAU - DEADEND	2,113	\$878
Roslyn	Plaza Ave / S 18th Street / Hoffman Road	Jericho Tpke	S 17th Street	2,295	\$953
Roslyn	Van Nostrand Ave	Allen Ln	Deadend	178	\$74
Roslyn	Magnolia Pl / Roosevelt St / Todd Dr	Todd Dr	Glen Head Rd	1,292	\$537
Roslyn	Kilburn Rd S / 7th St / Brixton Rd S	7th St	Ardley Blvd	1,247	\$518
Roslyn	Northern Blvd	Wensley Dr	Tain Dr	3,449	\$1,433
Roslyn	Elm Street / Hillside Ave	Willow Place / Middle Neck Road	Deadend	1,274	\$529
Roslyn	Westbury Ave (CR 12)	Pilgrim Ave	Glen Cove Rd	2,830	\$1,175
Roslyn	DERBY ST - HOWARD ST - HIGH ST - ROSLYN RD	ROSLYN RD - ROSLYN RD - HOWARD ST - HOWARD ST	HIGH ST - HIGH ST - GLENMORE ST - GLENMORE ST	2,022	\$840
Roslyn	Leonard Blvd	Jasmine Ave	Evergreen Ave	1,260	\$523
Roslyn	Continental Pl / Continental Hill / Charles St	Robinson Ave	Continental Ct	2,118	\$880
Roslyn	White Ave, N 6th St	N 4th St	Lakeville Rd	2,015	\$837
Roslyn	Prince St	Moore St	Herricks Rd	1,570	\$652
Roslyn	Bayview Ave / Ellison St	Mountain Ave	Dead End	1,499	\$623
Roslyn	LINKS DR	HORACE HARDING BLVD	HORACE HARDING BLVD	1,502	\$624
Roslyn	4th St	Jericho Tpke	Railroad Ave	1,770	\$735
Roslyn	Madison Ave	Dead end	The Blvd	1,087	\$452
Roslyn	SUPERIOR RD / MICHIGAN RD / ONTARIO RD / MASSA	COLONIAL RD	COMMONWEALTH BLVD	3,857	\$1,602
Roslyn	7th Ave / S 8th St / S 9th St / S 10th St	6th Ave	Stewart Ave	1,925	\$800
Roslyn	Andover Road	Plymouth Road	Orchard Street	889	\$369
Roslyn	SR-25A Northern Blvd	Onderdonk Ave	Deepdale Dr	2,064	\$857
Roslyn	Brookbridge Rd / Country Pl	Old Mill Rd / Parkside Dr	Woodland Pl / Brookbridge Rd	1,310	\$544
Roslyn	Broadway Ave	Terrace Blvd	Belmont Ave	1,830	\$760
Roslyn	Harrison Ave/3rd Ave	Horton Hwy/Harrison Ave	Willis Ave/1st St	1,610	\$669
Roslyn	Hewlett Dr / Robbins Dr	Roslyn Rd	Robins Dr	2,131	\$885
Roslyn	Elm Street	Glen Cove Rd	Deadend	866	\$360
Roslyn	Great Neck Rd	Broadway	Great Neck Rd	2,068	\$859
Roslyn	DEEPALE DR	NORTHERN BLVD	QUAKER RIDGE RD	1,316	\$547
Roslyn	NORTHERN BLVD	LAKEVILLE RD	SUMMER AVE	271	\$113
Roslyn	Ryder Rd	Thayer Rd	Manhasset Woods Rd	1,364	\$567
Roslyn	Millers Ln, 3rd Ave, Baer Pl	Jericho Tpke	4th Ave	2,210	\$918
Roslyn	Franklin Ave / Mackey Ave / Bayview Ave	Murray Ave	Franklin Ave	1,271	\$528
Roslyn	Roslyn Rd/Windsor Ave	Roslyn Rd	Sagamore Ave	1,073	\$446
Roslyn	Rolling Hill Rd	Rugby Rd	WoodCut Ln	1,125	\$467
Roslyn	FLORAL PKWY / E POPLAR ST / CYPRESS ST / BIRCH ST	FLORAL PKWY	RAFF AVE	2,788	\$1,158
Roslyn	DORSET RD / MERRIVALE RD / SURREY RD / NORFOLK	SOMERSET DR N	RUTLAND RD	3,716	\$1,544
Roslyn	Rowe Pl / Rhodes St	Lakeville Rd	Stewart Ave	941	\$391
Roslyn	PLANDOME RD / SUMMIT DR	PLANDOME CT ST	WEBSTER AVE	1,413	\$587
Roslyn	NORTHERN BLVD / PORT WASHINGTON BLVD	SEARINGTOWN RD	COPLEY RD (THE GATE)	2,400	\$997
Roslyn	South Ave	Cherry Valley Ave	Railroad Crossing	695	\$289
Roslyn	Superior Rd / 244th St / 246th St	Ontario Rd	Superior Rd	2,229	\$926
Roslyn	Seaman Rd / Halsey Ave / Nimitz St	Nimitz St	Willets Ln	1,330	\$552
Roslyn	Lexington St / Nassau St / Harvard St	Magnolia Ave	Tulip Ave	818	\$340
Roslyn	Birch Hill Rd	Ryefield Rd	Horse Hollow Rd	638	\$265

KeySpan Gas East Corporation d/b/a National Grid
FY 2023 Leak Prone Pipe Prioritization Summary

Municipality	On Street	StreetFrom	StreetTo	LPLength	Estimated Cost, (\$000's)
Roslyn	Small Pl	Shore Rd	Deadend	475	\$197
Roslyn	BOURDALE RD N / BOURDALE RD S / BROOKWALD	PLANDOME RD	BROOKWALD DR	3,511	\$1,458
Roslyn	Chesnut St / Lincoln Pl / Roosevelt / Jefferson / Grant	Woolsey Ave	Cottage Row	6,036	\$2,507
Roslyn	St. Francis Hospital	Port Washington Blvd	Port Washington Blvd	269	\$112
Roslyn	SUMMIT ST - IRVING CT - IRVING PL	SOUTH ST - SUMMIT ST - SOUTH ST	ANSTICE ST - IRVING PL - DEADEND	1,761	\$731
Hewlett	ELVIRA AVE	READS LN	FRISCO AVE	459	\$191
Hewlett	FAR ROCKAWAY BLVD	BEACH 32ND ST	BEACH 25TH ST	1,121	\$466
Brentwood	CLEVELAND ST / JEFFERSON AVE / STELLENWERF AVE	MCKINLEY ST	ISLIP BLVD	2,324	\$965
Brentwood	(NY110) BROADHOLLOW RD	CONKLIN ST	GLOVE CIR	2,713	\$1,127
Brentwood	Deer Park Ave	Eddie Ave	Easton Ave	522	\$217
Brentwood	BAY SHORE AVE / BELLMORE ST / ROCKAWAY ST	OCEAN AVE	LEOPOLD AVE	3,195	\$1,327
Brentwood	HUDSON / PELHAM	OAKLAND / HUDSON	PELHAM / BRENTWOOD	1,132	\$470
Brentwood	Silver St	Lenox Rd	Cheltenham Rd	390	\$162
Brentwood	Bayview Ave / Lombardi Pl	322 Bayview Ave	62 Lombardi Pl	1,230	\$511
Brentwood	Ackerson Blvd, Pine Dr, Mohawk Dr, Penataquit Dr, Ir	Seneca Dr	Wohseepe Dr	4,790	\$1,990
Brentwood	Livingston Ave / Ann St	Ann St	Beverly Rd	1,305	\$542
Brentwood	Homer St	Lapeer St	Orange St	2,652	\$1,102
Brentwood	Harrison Ave	Broadway	Rose Wood Ave	885	\$368
Brentwood	N STRONG AVE / 27TH ST / 28TH ST	26TH ST	28TH ST	1,476	\$613
Brentwood	Dietz St	Wheeler Rd	Church St	912	\$379
Brentwood	Bluegrass Ln	Hayrick Ln	Plowboy Path	1,498	\$622
Brentwood	Middle Rd / McConnell Ave / Bay Ave	Baywood Ln	Seaman Ave / Academy St	3,779	\$1,570
Brentwood	Manatuck Blvd / Richland Blvd / Iroquois Dr / Wohsee	Pine Acres Blvd	Brooklyn Blvd	3,958	\$1,644
Brentwood	Franklin Rd / Bayview Dr / Tide Ct / Manta Ct	Main St	Manta Ct	3,619	\$1,503
Brentwood	PEPPERMINT / DON WAY	BETHAL	DARON	1,406	\$584
Brentwood	W LIDO PROMENADE	W RIVIERA DR	W LIDO PROMENADE	708	\$294
Brentwood	SCHMEELK PL	S GREAT NECK RD	DEADEND	845	\$351
Brentwood	Pinelawn Ave / Audley Ct / Abington Ct / Maple Ct	Kensington Ct	Parkside Ct	1,922	\$798
Brentwood	Perkins Ave	Riverside Ave	S Bay View Ave	2,917	\$1,212
Brentwood	DEKALB AVE / N 4TH ST	N WELLWOOD AVE	N 6TH ST	1,633	\$678
Brentwood	E 6TH ST / GRAND BLVD	E 5TH ST	E 7TH ST	1,340	\$557
Brentwood	Tellar Dr / E Nassau St / E Farmingdale St	Spur Dr N	Belmore Ave	3,733	\$1,551
Brentwood	PENNSYLVANIA	INDIANA	OHIO	1,405	\$584
Brentwood	WELLINGTON AVE / KENMORE ST / RUTLAND ST / CA	KENMORE ST	CAMBRIDGE ST	2,120	\$881
Brentwood	Atlantic St / Bayview Ave W / Spring St	Bayview Ave W	Ocean St	1,211	\$503
Brentwood	Lincoln Ave	Park Pl	Craig B Gariepy Ave	1,871	\$777
Brentwood	MANITTON / NASSAU / COLUMBIA / LOCUST / WATS	UNION	MAIN	7,799	\$3,239
Brentwood	South 5th Ave	1st St	Brentwood Rd	1,388	\$577
Brentwood	MARCONI BLVD / PLOXI ST / CAMPAGNOLI AVE / BAR	CHURCH PL	MARCONI BLVD	1,905	\$791
Brentwood	CROTON	WALT WHITMAN	DEADEND	406	\$169
Brentwood	Claywood Dr	Melody Ln	Oriole Pl	813	\$338
Brentwood	Cedar Ct / Pinelawn Ave	Montauk HWY	Great Neck Rd	1,211	\$503
Brentwood	Greenwood Dr / Kime Ave	Deer Park Ave	Deer Lake Dr	2,707	\$1,124
Brentwood	Manatuck Blvd	Pine Dr	Adrienne Dr	4,293	\$1,783
Brentwood	HALF HOLLOW	RANDY	S SERVICE	1,646	\$684
Brentwood	Owens St	9th Ave	Candlewood Rd	1,602	\$665
Brentwood	Skidmore Rd	Bay Shore Rd	Drakeford	1,433	\$595
Brentwood	QUINTREE / REMLY	OLD COUNTRY	DEADEND	3,573	\$1,484
Brentwood	Concourse E / Marine Ct	Windsor Ave	Dead End	577	\$240
Greenlawn	NEW YORK AVE (RT110) / GERARD ST / STEWART AVE	MAIN ST	UNION PL	2,435	\$1,011
Greenlawn	LARKFIELD RD	CEDAR RD	SHELBOURNE LN	5,715	\$2,374
Greenlawn	Adams St, Cleveland Dr	Karrison Dr	Deadend	1,455	\$604
Greenlawn	Main St East (NY 25)	Landing Ave	Hauppauge Rd (RTE 111)	1,946	\$808
Greenlawn	CREEK RD	WALL ST	HILL PL	684	\$284
Greenlawn	McKinley Terrace, Adams St	Jackson Crescent	Cleveland Dr	1,660	\$690
Greenlawn	23RD / HOMECREST / 22ND	HOLLIS	NEW YORK	2,691	\$1,118
Greenlawn	Sammis St	New York Ave	Nassau Rd	1,232	\$512
Greenlawn	Monett Pl, Hofstra Dr, Oberlon Dr	Park Ave	Colgate Rd	4,899	\$2,035
Greenlawn	SOUTH - UPPER - CAMLON - BLUE GOOSE	UPPER - NORTH - SOUTH - SOUTH	DEADEND - SOUTH - DEADEND - BLUE GOOSE	3,297	\$1,369
Greenlawn	Gilbert St	Main St	Fort Salonga Rd	2,012	\$836
Greenlawn	Mckay Rd	Oakwood Rd	Horizon Rd	1,575	\$654
Greenlawn	COTTAGE / DAVID / ROXANNE / PHILLIP / TEDDY	KELSEY	MONATON	2,963	\$1,231
Greenlawn	W 19th St / 7th Ave N / 7th Ave S / W Hills Rd	W Hills Rd	W 21st St	1,268	\$527
Greenlawn	CROLEY	PARK	BROADWAY	1,631	\$677
Greenlawn	Rutledge Ave / McKinney Ave / Douglas Ave / Woods	Highland Ave	Woodside Ave	3,361	\$1,396
Greenlawn	Duquesne Dr, Auburn Dr, Geneva Pl	Lake Rd	Hofstra Dr	4,007	\$1,664
Greenlawn	GEORGIA	FRANKLIN	SARATOGA	1,249	\$519
Greenlawn	Stoothoff Rd	Lewis Ave	Wedgewood Ln	1,568	\$651
Greenlawn	E Main St Shopping Center	Lawrence Ave	E Main St	1,431	\$594
Greenlawn	CENTERSHORE / WESTFIELD	LAKESIDE	CENTERSHORE	1,450	\$602
Patchogue	Blue Ridge - West End Dr - Birchwood - Daryl	Blue Ridge towards Golf Ln - Blue Ridge	Daryl Dr - Dead end	10,426	\$4,331
Patchogue	Main St (NY 25A)	High St	E Oakland Ave	1,431	\$594
Patchogue	Arden Pl / Main St / W Broadway / Wynn Ln	Barnum Ave	South St	2,831	\$1,176
Patchogue	Reeves Rd / Nicholas St / Sheep Pasture Rd	Main St	Reeves Rd	2,115	\$879
Patchogue	MADISON ST	BLUE POINT AVE	WILSON ST	1,678	\$697
Patchogue	GAYMOR LN / S HOWELL AVE	GRENDON LN / GAYMOR LN	S HOWELL AVE / CRESTWOOD LN	1,883	\$782
Patchogue	COUNTRY CLUB	S COUNTRY	COUNTRY CLUB	1,619	\$672
Patchogue	Main St	Harbor Rd	N Country Rd	3,754	\$1,559
Patchogue	Urban Dr	Peconic St	Wyant St	1,067	\$443
Patchogue	BELL ST / MAPLE ST / BROWNS LN / HULSE ST / TUTH	S COUNTRY RD	PEARL ST	4,267	\$1,772
Patchogue	Sheep Pasture Rd	Bennetts Rd	Pond Path	1,694	\$704
Patchogue	Lenox St	Cosimo Ct	Robert Ct	1,393	\$579
Patchogue	Southgate Rd	Shortwood Ln	Highwood Rd	885	\$368
Patchogue	Franklin Ave	Dead End	Magnolia Dr	1,412	\$587
Patchogue	Farmer Ave	Linwood Ave	Magnolia Dr	980	\$407
Patchogue	BELLE TERRE RD	MYRTLE AVE	325' n/o PRINCESS TREE CT	2,091	\$869
Riverhead	BURNETT	PINE	LITTLE PLAINS	625	\$260
Riverhead	Westphalia Ave	North Rd (CR 48)	LIRR Crossing	541	\$225
Riverhead	Main St	Bay St	Spring St	3,642	\$1,513
Riverhead	HWY BEHIND THE POND	DUNEMERE LN	E DUNE LN	2,289	\$951
Riverhead	NY25 MAIN RD	HORTONS RD	MAPLE LN	4,108	\$1,706
Riverhead	Clinton St	Railroad Ave	Main St	1,140	\$474

KeySpan Gas East Corporation d/b/a National Grid
FY 2023 Leak Prone Pipe Prioritization Summary

Municipality	On Street	StreetFrom	StreetTo	LPPLength	Estimated Cost, (\$000's)
Riverhead	NY27 MAIN ST	PARK PL	WOODS LN	5,625	\$2,336
Riverhead	Main Rd (NY 25)	Herricks Ln		1,650	\$685
Riverhead	Cooper St, Halsey St, Breese Ln	Hill St	White St	5,697	\$2,366
Riverhead	River Rd	Connecticut Ave	Swan Pond	8,044	\$3,341
Riverhead	NY25 W MAIN ST	KROEMER AVE	e/o 1403 W MAIN ST	2,034	\$845
Riverhead	West End Rd	Apaquogue Rd	End of Main	3,477	\$1,444
Riverhead	Grathwohl Rd	Kouros Rd	George Rd	1,116	\$464
Riverhead	OAK AVE / FLANDERS BLVD / POLK ST	FLANDERS RD	POLK ST	2,299	\$955
Riverhead	BAY AVE	MAIN RD	RABBIT LN	1,737	\$721
Riverhead	Osborn Ave	Court St	Lincoln St	603	\$250
Total Retirement Footage				561,333	\$233,161
Total Retirement Mileage				106.3	

Notes:

- 1 This report contains only the proposed proactive/storm hardening LPP replacements.
- 2 The Company may choose to accelerate or delay the timing of certain replacement projects listed above during the year based on circumstances (e.g., availability of capital resources, opportunities arising that allow the coordination of LPP replacement with other work, or leak activity).
- 3 Estimates are based on average unit costs that may vary due to permit requirements.
- 4 KEDLI uses Procedure ENG-04030 Identification, Evaluation, and Prioritization of Distribution Main Segments to identify mains and associated services for replacement.

Keyspan Gas East Corporation d/b/a National Grid
Direct Capital Expenditures (CAPEX and COR)
\$000

Customer Connections

	FY23	FY24	FY25	FY26	FY27
Customer Connections - Install Main	\$ 22,303	\$ 22,735	\$ 21,094	\$ 19,377	\$ 17,584
Customer Connections - Install Services	\$ 37,269	\$ 38,014	\$ 35,139	\$ 32,134	\$ 28,995
Customer Connections - Customer Contributions	\$ (5,396)	\$ (5,504)	\$ (5,088)	\$ (4,653)	\$ (4,198)
Customer Connections - Install Meter/Regulator	\$ 2,319	\$ 2,365	\$ 2,186	\$ 1,999	\$ 1,804
Customer Connections - Meter Purchases	\$ 4,030	\$ 4,111	\$ 3,800	\$ 3,475	\$ 3,135
Customer Connections - Automatic Meter Reading (AMR)	\$ 862	\$ 879	\$ -	\$ -	\$ -
Customer Connections - Fuel Cell Energy-Yaphank	\$ 377	\$ -	\$ -	\$ -	\$ -
Customer Connections - Long Island Compost	\$ 2,419	\$ 50	\$ -	\$ -	\$ -
Customer Connections - Long Island Compost - CIAC	\$ (2,419)	\$ (50)	\$ -	\$ -	\$ -
Gas System Reinforcement	\$ 26,880	\$ 16,776	\$ 13,810	\$ 14,232	\$ 17,672
Gas System Reinforcement - LTL11801 - Freeport- Albany Ave- New Regulator	\$ 13	\$ -	\$ -	\$ -	\$ -
Gas System Reinforcement - LTL113333 - Hauppauge - SL-6 - Rebuild	\$ -	\$ -	\$ -	\$ 100	\$ 300
Gas System Reinforcement - LTL10860 - Riverhead Transmission Main - Long Term Supply	\$ -	\$ -	\$ -	\$ -	\$ 195
Gas System Reinforcement - LTL10941 - Southampton- Transmission Main	\$ 7,658	\$ 2,000	\$ 50	\$ -	\$ -
Gas System Reinforcement - LTL10985 - Southeast Suffolk Infrastructure - Phase 1 - Long Term Supply	\$ 140	\$ -	\$ -	\$ -	\$ -
Gas System Reinforcement - LTL10985 - Southeast Suffolk Infrastructure - Phase 2 - Long Term Supply	\$ -	\$ -	\$ -	\$ -	\$ 100
Gas System Reinforcement - LTL11975 - Amityville - SL-03 Rebuild	\$ 1,050	\$ 7,500	\$ 50	\$ -	\$ -
Gas System Reinforcement - LTL11976 - Amityville- SL-63- Reg Rebuild	\$ 410	\$ -	\$ -	\$ -	\$ -
Gas System Reinforcement - LTL12011 - Elmont- NL-25- Reg Rebuild	\$ 5,665	\$ 1,306	\$ 100	\$ -	\$ -
Gas System Reinforcement - LTL12238 - Bellmore- Grand Ave- Transmission Main	\$ 1,075	\$ 10,000	\$ 100	\$ -	\$ -
Gas System Reinforcement - LTL12622 - Hampton Bays- Reg Station SL-19 Rebuild	\$ 3,923	\$ 2,186	\$ 90	\$ -	\$ -
Gas System Reinforcement - LTL20695 - Bellmore Regulator	\$ -	\$ 100	\$ 500	\$ 7,500	\$ 50
	\$ 108,577	\$ 102,468	\$ 71,832	\$ 74,165	\$ 65,637

Mandated

Access Protection Remediation	\$ 200	\$ -	\$ -	\$ -	\$ -
Atmospheric Corrosion Inside Inspections (Remediation)	\$ 81	\$ 82	\$ 84	\$ 86	\$ 88
Corrosion	\$ 773	\$ 788	\$ 804	\$ 820	\$ 837
Cross Bore Remediation	\$ 923	\$ 946	\$ 500	\$ -	\$ -
CSC/Public Works - Non Reimbursable	\$ 5,764	\$ 5,877	\$ 5,995	\$ 6,115	\$ 6,237
CSC/Public Works - Reimbursable	\$ 5,694	\$ 5,808	\$ 5,924	\$ 6,043	\$ 6,163
Large Diameter Pipe Rehabilitation	\$ 556	\$ 6,856	\$ 6,993	\$ 7,133	\$ 7,275
Large Diameter Pipe Rehabilitation - CI Main Lining - Augustina Ave	\$ 2,000	\$ -	\$ -	\$ -	\$ -
Large Diameter Pipe Rehabilitation - CI Main Lining - E Rockaway Rd	\$ 4,200	\$ -	\$ -	\$ -	\$ -
Latent Damage	\$ 540	\$ 551	\$ 562	\$ 573	\$ 585
Low Pressure Main Valve Installation	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
Low Pressure System Elimination - Proactive	\$ -	\$ 500	\$ 2,000	\$ 3,000	\$ 3,060
Main Replacement - Proactive - Leak Prone Pipe	\$ 233,573	\$ 248,279	\$ 263,175	\$ 285,337	\$ 293,898
Main Replacement - Reactive - Maintenance	\$ 4,090	\$ 4,028	\$ 4,109	\$ 4,191	\$ 4,275
Meter Changes	\$ 2,823	\$ 2,880	\$ 2,938	\$ 2,996	\$ 3,056
Meter Pitts	\$ 1,130	\$ 1,152	\$ 1,175	\$ 1,199	\$ 1,223
Pipeline Integrity - IMP	\$ 1,015	\$ 1,000	\$ 1,000	\$ -	\$ -
Pipeline Integrity - IMP - GM 10 Replacement	\$ 350	\$ 371	\$ 2,500	\$ 75,000	\$ 60,000
Pipeline Integrity - IVP	\$ 400	\$ 700	\$ 2,850	\$ 3,400	\$ 2,650
Pipeline Integrity - IVP - GM 9 Stewart Ave to Merrick	\$ 2,000	\$ 25,000	\$ -	\$ -	\$ -
Purchase Meters (Replacements)	\$ 1,492	\$ 3,588	\$ 3,660	\$ 3,733	\$ 3,808
Replace Pipe on Bridges - Center Dr. Bridge, Riverhead	\$ 390	\$ 879	\$ 50	\$ -	\$ -
Service Replacement - Reactive - Leaks	\$ 2,613	\$ 2,665	\$ 2,718	\$ 2,772	\$ 2,828
Service Replacement - Reactive - Non-Leaks - Other	\$ 3,277	\$ 3,483	\$ 3,553	\$ 3,624	\$ 3,696
Transmission Station - Over Pressure Protection - Long Beach	\$ 100	\$ 200	\$ 8,000	\$ 50	\$ -
Transmission Station - Over Pressure Protection - South Commack	\$ -	\$ 100	\$ 200	\$ 8,000	\$ 50
Transmission Station Integrity - PHMSA	\$ 9,377	\$ 16,142	\$ 17,299	\$ 4,822	\$ 20,200
Valve Installation/Replacement	\$ 116	\$ 118	\$ 121	\$ 124	\$ 127
	\$ 283,974	\$ 332,493	\$ 336,709	\$ 419,517	\$ 420,555

Reliability

CNG - CNG Fill - Brentwood - Retirement (Removal)	\$ 300	\$ -	\$ -	\$ -	\$ -
CNG - CNG Fill - Hicksville - Retirement (Removal)	\$ -	\$ 300	\$ -	\$ -	\$ -
CNG - CNG Fill - KEDLI Blanket	\$ 510	\$ 520	\$ 100	\$ 102	\$ 104
CNG - CNG Fill - Riverhead CNG Project	\$ 3	\$ -	\$ -	\$ -	\$ -
CNG - CNG Replacement - Riverhead CNG Replacement	\$ 510	\$ 1,040	\$ 7,428	\$ 10,283	\$ -
CNG - Long Term Supply - Blanket	\$ 102	\$ 104	\$ 106	\$ 108	\$ 250
CNG - Long Term Supply - Glenwood CNG Expansion - Emergent	\$ 3	\$ -	\$ -	\$ -	\$ -
CNG - Long Term Supply - Site 5 - Off Loading Facility - Farmingdale	\$ 10,275	\$ 100	\$ -	\$ -	\$ -
Distribution Station - Over Pressure Protection	\$ 1,500	\$ 276	\$ 300	\$ 314	\$ 328
Gas Planning	\$ 1,000	\$ 1,700	\$ 2,850	\$ 2,600	\$ 2,652
Gas Planning - RCV - LTL110652 - Lynbrook - RCV QL-04	\$ 2,861	\$ -	\$ -	\$ -	\$ -
Gas Planning - RCV - LTL10676 - Elmont - RCV 007646335	\$ 100	\$ 1,500	\$ 50	\$ -	\$ -
Gas Planning - RCV - LTL11032 - Westbury - RCV 023123400	\$ 405	\$ 2,000	\$ 30	\$ -	\$ -
Gas Planning - RCV - LTL11985 - Farmingdale - RCV 032583255	\$ 543	\$ -	\$ -	\$ -	\$ -
Gas Planning - RCV - LTL12020 - Deer Park - RCV 040632167	\$ 2,120	\$ 50	\$ -	\$ -	\$ -
Gas Planning - RCV - LTL12021 - Deer Park - RCV 040632133	\$ 2,402	\$ 50	\$ -	\$ -	\$ -
Gas Planning - RCV - LTL12022 - Pinelawn - RCV 041025592	\$ 100	\$ 967	\$ 50	\$ -	\$ -
Gas Planning - RCV - LTL120739 - Dix Hills - RCV 047163210	\$ 50	\$ 100	\$ 1,600	\$ 50	\$ -
Gas Planning - RCV - LTL120883 - Commack	\$ -	\$ 75	\$ 200	\$ 1,600	\$ 50
Gas Planning - RCV - LTL120889 - Westbury2	\$ -	\$ -	\$ 75	\$ 200	\$ 1,600
Gas System Control	\$ 120	\$ 123	\$ 125	\$ 128	\$ 130
Gas System Control - Facilities Upgrades	\$ -	\$ -	\$ 1,389	\$ 1,389	\$ 1,389
Gas System Control - MapBoard Replacement	\$ -	\$ 560	\$ -	\$ -	\$ -
Heater Installation Program	\$ 500	\$ 660	\$ 1,670	\$ 4,031	\$ 3,091
I&R - Reactive	\$ 267	\$ 272	\$ 277	\$ 283	\$ 288
LNG - 4KV Cable Replacement	\$ 10	\$ 20	\$ 100	\$ 1,000	\$ 3,000
LNG - AESD System	\$ 1,640	\$ -	\$ -	\$ -	\$ -
LNG - Blanket	\$ 1,123	\$ 1,144	\$ 1,167	\$ 1,190	\$ 1,214
LNG - Holtsville Tank Modernization - Boiloff Compressor System	\$ 500	\$ 1,203	\$ 1,950	\$ 17,839	\$ 50
LNG - Control Room Upgrade	\$ -	\$ -	\$ 10	\$ 10	\$ 500
LNG - Controls System Upgrade	\$ 1,223	\$ -	\$ -	\$ -	\$ -
LNG - Dry Powder System Replacement	\$ -	\$ -	\$ -	\$ 10	\$ 10

Keyspan Gas East Corporation d/b/a National Grid
Direct Capital Expenditures (CAPEX and COR)
\$000

	FY23	FY24	FY25	FY26	FY27
LNG - Fire Pump Upgrade	\$ -	\$ 10	\$ 500	\$ 500	\$ 1,000
LNG - Flare Refurbishment	\$ -	\$ -	\$ 10	\$ 10	\$ 100
LNG - Heat Exchanger/Plant Cooling Systems Replacement	\$ -	\$ -	\$ -	\$ 10	\$ 26
LNG - Holtsville Tank Modernization - Tank Foundation Heating System Upgrade	\$ 80	\$ 200	\$ 600	\$ 1,509	\$ 17
LNG - Holtsville Tank Modernization - Tank Stair Replacement	\$ 120	\$ 665	\$ 1,650	\$ 1,919	\$ 24
LNG - Holtsville Tank Modernization - Tank Upgrade	\$ 1,967	\$ 44,366	\$ 10,148	\$ 17,360	\$ 35
LNG - Hydrant System Piping Refurbishment	\$ -	\$ -	\$ 100	\$ 760	\$ 2,000
LNG - Liquefaction System Refurbishment	\$ -	\$ 10	\$ 50	\$ 1,000	\$ 3,000
LNG - LNG Pump Upgrade	\$ 70	\$ 100	\$ 1,000	\$ 7,500	\$ 7,500
LNG - Nitrogen System Refurbishment	\$ -	\$ -	\$ -	\$ 10	\$ 10
LNG - Odorant System Replacement	\$ 10	\$ 20	\$ 100	\$ 500	\$ 1,000
LNG - Piping Insulation Inspection & Upgrade	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
LNG - Holtsville Tank Modernization - Power Center Upgrade	\$ 500	\$ 500	\$ 1,000	\$ 6,350	\$ 50
LNG - Security System Upgrade	\$ 894	\$ -	\$ -	\$ -	\$ -
LNG - SST1 & SST2 Replacement	\$ 10	\$ 10	\$ 100	\$ 1,000	\$ 5,000
LNG - Standby/Emergency Power	\$ -	\$ 100	\$ 300	\$ 5,000	\$ 500
LNG - Storage Building	\$ 200	\$ -	\$ -	\$ -	\$ -
LNG - Tank Painting	\$ -	\$ -	\$ -	\$ 10	\$ 100
LNG - Vapor Suppression System	\$ 500	\$ 500	\$ 1,233	\$ 800	\$ -
LNG - Vaporizer Replacement	\$ -	\$ -	\$ -	\$ 10	\$ 75
Pipeline Integrity - Northwest Nassau - Phase 2B GM Down Rate	\$ -	\$ 500	\$ -	\$ -	\$ -
Pipeline Integrity - Northwest Nassau Transmission Main & Control Valve - Phase 2	\$ 23,427	\$ 4,500	\$ -	\$ -	\$ -
Pipeline Integrity - Northwest Nassau Transmission Main & Control Valve - Phase 3	\$ 1,750	\$ 1,750	\$ 85,000	\$ 70,000	\$ 70,000
Pressure Regulation Engineering - Proactive	\$ 11,855	\$ 14,827	\$ 15,363	\$ 24,088	\$ 16,064
Smart Residential Methane Detector Program	\$ -	\$ -	\$ 2,241	\$ 2,286	\$ 2,332
Storm Hardening - Install Remote Service Shutoff Valves	\$ 5,000	\$ 19,501	\$ 19,153	\$ 19,288	\$ -
System Automation	\$ 500	\$ 1,166	\$ 1,166	\$ 1,384	\$ 1,441
Water Intrusion	\$ 111	\$ 113	\$ 115	\$ 117	\$ 120
	\$ 75,661	\$ 102,102	\$ 159,808	\$ 203,048	\$ 125,550
Non Infrastructure					
Automatic Meter Reading (AMR) - Replacement	\$ 527	\$ 537	\$ 1,444	\$ 1,473	\$ 1,503
Future of Heat - HyGrid - Hydrogen Blending Project (Long Beach)	\$ 2,000	\$ 5,000	\$ 5,100	\$ -	\$ -
Future of Heat - New Projects	\$ -	\$ -	\$ -	\$ 5,202	\$ 5,306
Future of Heat - Renewable Natural Gas (RNG) Interconnections	\$ 450	\$ 450	\$ 497	\$ 507	\$ 1,034
Smart Gas Meter - IS Integration	\$ -	\$ 3,000	\$ -	\$ -	\$ -
Telecomm - Comm site upgrades	\$ 50	\$ 51	\$ 52	\$ 53	\$ 55
Telecomm - Damaged Failure	\$ 13	\$ 14	\$ 14	\$ 14	\$ 14
Telecomm - Radio Capital Expenditures	\$ 51	\$ 52	\$ 53	\$ 55	\$ 56
Tools & Equipment - Construction	\$ 1,028	\$ 1,049	\$ 1,070	\$ 1,091	\$ 1,113
Tools & Equipment - Field Operations	\$ 1,255	\$ 1,280	\$ 1,306	\$ 1,332	\$ 1,359
Tools & Equipment - Learning & Development	\$ 188	\$ 188	\$ -	\$ -	\$ -
Tools & Equipment - Meter Testing	\$ 228	\$ 240	\$ 254	\$ 268	\$ 284
	\$ 5,790	\$ 11,861	\$ 9,791	\$ 9,996	\$ 10,724
Total Capital Including Cost of Removal	\$ 474,002	\$ 548,924	\$ 578,140	\$ 706,727	\$ 622,465
Cost of Removal	\$ 12,324	\$ 14,272	\$ 15,032	\$ 18,375	\$ 16,184
Total Capital (Net of Removal)	\$ 461,678	\$ 534,652	\$ 563,108	\$ 688,352	\$ 606,281