

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
GAS RESEARCH AND DEVELOPMENT COSTS

	Historical Year 6/30/2012	Rate Year CY 2014	Variance
<u>Administration</u>			
SALARIES AND WAGES	\$ 267	By Others	
DEVELOP STRATEGIC TECHNOLOGY ROADMAP	\$ 33	\$ -	(33)
OTHER EXPENSES	\$ 15	\$ 16	1
TECHNOLOGY APPLICATIONS	\$ 17	\$ 26	9
Total Administration	\$ 332	\$ 42	(290)
<u>Industry Group</u>			
NYSEARCH-NORTHEAST GAS ASSOCIATION RESEARCH DEVELOPMENT AND DEMONSTRATION (NON-MILLENNIUM)	\$ 83	\$ 50	(33)
Total Industry Group	\$ 83	\$ 50	(33)
<u>Internal Program</u>			
REMOTE MONITORING SYSTEM FOR DRIP POT WATER	\$ 182	\$ 50	(132)
MICRO-EXCAVATION FOR CP TEST STATION / VALVE BOX INSTALLATION	\$ 146	\$ 75	(71)
DEVELOP A GAS GIS BASEMAP OF MANHATTAN TOWARD AN AUTOMATED GAS LEAK SURVEY	\$ 135	\$ 75	(60)
EVALUATION OF SELF-HEALING WATERPROOFING MATERIAL AT THE FIRST AVENUE TUNNEL	\$ 111	\$ -	(111)
EVALUATE INSPAR SIPP POLYUREA LINING SYSTEM	\$ 99	\$ 50	(49)
FIELD DEMONSTRATIONS OF ALH TAPPING MACHINES	\$ 87	\$ -	(87)
DEMONSTRATION OF ADVANCEMENTS TO THE CURED-IN-PLACE- LINING PROCESS FOR GAS	\$ 85	\$ 100	15
DEVELOP AN EMERGENCY MAIN STOP-OFF STATION	\$ 72	\$ 75	3
EVALUATION OF LARGE DIAMETER FULL SIZED REMOTE OPERATED VALVE CLOSURE UNDER FULL FLOW CONDITIONS	\$ 55	\$ -	(55)
DEVELOPMENT OF A PILOT GIS WORKSTATION	\$ 50	\$ -	(50)
PROTECTION OF PLASTIC GAS PIPE FROM ELECTRICAL ARCING AND BURNOUTS	\$ -	\$ 100	100
LINERS FOR TRANSMISSION MAINS	\$ -	\$ 50	50
SMART PIGGING EVALUATION AND TESTING	\$ -	\$ 50	50
EVALUATE GROUND TEMPERATURE NEAR STEAM MAINS	\$ -	\$ 50	50
TECHNOLOGY DEPLOYMENT AND IMPLEMENTATION (TDI) PROGRAM - PHASES II & III	\$ 29	\$ 100	71
OPERATIONS TECHNOLOGY DEVELOPMENT NOT FOR PROFIT (OTD) PROGRAM (NON-MILLENNIUM PROJECTS)	\$ 20	\$ 50	30
GAS CONTROL SIMULATOR	\$ -	\$ 50	50
DISTRIBUTION PRESSURE ENHANCEMENTS FOR OIL/GAS CONVERSIONS	\$ -	\$ 50	50
PROJECTS LESS THAN \$50K	\$ 164	\$ 215	87
Internal Program	\$ 1,235	\$ 1,140	(59)
Subtotal Traditional Program	\$ 1,650	\$ 1,232	\$ (382)
Less R&D Salaries	\$ 267	By Others	
Less other Company labor	\$ 71	By Others	
Total Traditional Program	\$ 1,312	\$ 1,232	\$ (80)
<u>Millenium Fund</u>			
NYGAS (NYSEARCH) FUNDING FOR MILLENNIUM GAS RESEARCH AND DEVELOPMENT	\$ 1,224	\$ 925	\$ (299)
OPERATIONS TECHNOLOGY DEVELOPMENT (OTD) PROGRAM	\$ 584	\$ 550	\$ (34)
REHABILITATION INTERFERENCE MANAGEMENT SUPPORT (RIMS) SYSTEM	\$ 170	\$ -	\$ (170)
	\$ 158	\$ 160	\$ 2
EPRI FUNDING FOR MGP SITE REMEDIATION AND HEALTH RISK R&D RESEARCH, DEVELOP & DEMONSTRATE IN-LINE INSPECTION TECHNOLOGIES	\$ -	\$ 150	\$ 150
SMART INFRASTRUCTURE MANAGEMENT SYSTEM FOR GAS	\$ -	\$ 100	\$ 100
PROJECTS LESS THAN \$50k	\$ 42	\$ 75	33
Subtotal Millennium Program	\$ 2,178	\$ 1,960	\$ (218)
Less Other Company labor	\$ 15	By Others	
Total Millennium Fund	\$ 2,163	\$ 1,960	\$ (218)

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
GAS RESEARCH AND DEVELOPMENT COSTS**

Project Title	Rate Year CY 2014	Rate Year CY 2015	Variance
<u>Administration</u>			
SALARIES AND WAGES	By Others	By Others	
DEVELOP STRATEGIC TECHNOLOGY ROADMAP	\$ -		-
OTHER EXPENSES	\$ 16	16	-
PATENT SEARCHES IN CONNECTION WITH COMPANY R&D	\$ 26	26	-
TECHNOLOGY APPLICATIONS			
Total Administration	\$ 42	42	-
<u>Industry Group</u>			
NYSEARCH-NORTHEAST GAS ASSOCIATION RESEARCH	\$ 50	50	
DEVELOPMENT AND DEMONSTRATION (NON-MILLENNIUM)			
Total Industry Group	\$ 50	50	-
<u>Internal Program</u>			
REMOTE MONITORING SYSTEM FOR DRIP POT WATER	\$ 50	50	-
MICRO-EXCAVATION FOR CP TEST STATION / VALVE BOX	\$ 75	50	(25)
INSTALLATION			
DEVELOP A GAS GIS BASEMAP OF MANHATTAN TOWARD AN	\$ 75	50	(25)
AUTOMATED GAS LEAK SURVEY			
EVALUATE INSPAR SIPP POLYUREA LINING SYSTEM	\$ 50	-	(50)
DEMONSTRATION OF ADVANCEMENTS TO THE CURED-IN-PLACE-	\$ 100	75	(25)
LINING PROCESS FOR GAS			
DEVELOP AN EMERGENCY MAIN STOP-OFF STATION	\$ 75	75	-
PROTECTION OF PLASTIC GAS PIPE FROM ELECTRICAL ARCING AND	\$ 100	100	-
BURNOUTS			
LINERS FOR TRANSMISSION MAINS	\$ 50	100	50
SMART PIGGING EVALUATION AND TESTING	\$ 50	100	50
EVALUATE GROUND TEMPERATURE NEAR STEAM MAINS	\$ 50	50	-
TECHNOLOGY DEPLOYMENT AND IMPLEMENTATION (TDI) PROGRAM -	\$ 100	50	(50)
PHASES II & III			
OPERATIONS TECHNOLOGY DEVELOPMENT NOT FOR PROFIT (OTD)	\$ 50	50	-
PROGRAM (NON-MILLENNIUM PROJECTS)			
GAS CONTROL SIMULATOR	\$ 50	-	(50)
DISTIBUTION PRESSURE ENHANCEMENTS FOR OIL/GAS	\$ 50	250	200
CONVERSIONS			
PROJECTS LESS THAN \$50K	\$ 215	145	(70)
Internal Program	\$ 1,140	1,145	5
Total Traditional Program	\$ 1,232	\$ 1,237	\$ 5
<u>Millenium Fund</u>			
NYGAS (NYSEARCH) FUNDING FOR MILLENNIUM GAS RESEARCH AND	\$ 925	800	\$(125)
DEVELOPMENT			
OPERATIONS TECHNOLOGY DEVELOPMENT (OTD) PROGRAM	\$ 550	550	\$ -
	\$ 160	160	\$ -
EPRI FUNDING FOR MGP SITE REMEDIATION AND HEALTH RISK R&D	\$ 150	250	\$ 100
RESEARCH, DEVELOP & DEMONSTRATE IN-LINE INSPECTION			
TECHNOLOGIES			
SMART INFRASTRUCTURE MANAGEMENT SYSTEM FOR GAS	\$ 100	150	\$ 50
PROJECTS LESS THAN \$50k	\$ 75	50	(25)
Total Millennium Program	\$ 1,960	\$ 1,960	\$ -

**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
GAS RESEARCH AND DEVELOPMENT COSTS**

Project Title	Rate Year CY 2015	Rate Year CY 2016	Variance
<u>Administration</u>			
SALARIES AND WAGES	By Others	By Others	-
DEVELOP STRATEGIC TECHNOLOGY ROADMAP			-
OTHER EXPENSES	16	16	-
PATENT SEARCHES IN CONNECTION WITH COMPANY R&D	26	26	-
TECHNOLOGY APPLICATIONS			
Total Administration	42	42	-
<u>Industry Group</u>			
NYSEARCH-NORTHEAST GAS ASSOCIATION RESEARCH	50	50	-
DEVELOPMENT AND DEMONSTRATION (NON-MILLENNIUM)			
Total Industry Group	50	50	-
<u>Internal Program</u>			
REMOTE MONITORING SYSTEM FOR DRIP POT WATER	50	-	(50)
MICRO-EXCAVATION FOR CP TEST STATION / VALVE BOX	50	-	(50)
INSTALLATION			
DEVELOP A GAS GIS BASEMAP OF MANHATTAN TOWARD AN	50	-	(50)
AUTOMATED GAS LEAK SURVEY			
DEMONSTRATION OF ADVANCEMENTS TO THE CURED-IN-PLACE-	75	50	(25)
LINING PROCESS FOR GAS			
DEVELOP AN EMERGENCY MAIN STOP-OFF STATION	75	75	-
PROTECTION OF PLASTIC GAS PIPE FROM ELECTRICAL ARCING AND	100	100	-
BURNOUTS			
LINERS FOR TRANSMISSION MAINS	100	300	200
SMART PIGGING EVALUATION AND TESTING	100	150	50
EVALUATE GROUND TEMPERATURE NEAR STEAM MAINS	50	-	(50)
TECHNOLOGY DEPLOYMENT AND IMPLEMENTATION (TDI) PROGRAM -	50	50	-
PHASES II & III			
OPERATIONS TECHNOLOGY DEVELOPMENT NOT FOR PROFIT (OTD)	50	50	-
PROGRAM (NON-MILLENNIUM PROJECTS)			
DISTRIBUTION PRESSURE ENHANCEMENTS FOR OIL/GAS	250	300	50
CONVERSIONS			
PROJECTS LESS THAN \$50K	145	70	(75)
Internal Program	1,145	1,145	-
Traditional Program	\$ 1,237	\$ 1,237	\$ -
<u>Millennium Fund</u>			
NYGAS (NYSEARCH) FUNDING FOR MILLENNIUM GAS RESEARCH AND	800	800	\$ -
DEVELOPMENT			
OPERATIONS TECHNOLOGY DEVELOPMENT (OTD) PROGRAM	550	550	\$ -
	160	160	\$ -
EPRI FUNDING FOR MGP SITE REMEDIATION AND HEALTH RISK R&D			
RESEARCH, DEVELOP & DEMONSTRATE IN-LINE INSPECTION	250	250	\$ -
TECHNOLOGIES			
SMART INFRASTRUCTURE MANAGEMENT SYSTEM FOR GAS	150	200	\$ 50
PROJECTS LESS THAN \$50k	50	-	(50)
Total Millennium Program	\$ 1,960	\$ 1,960	\$ -