

Northern Natural Gas  
2023 Maintenance Capital Update  
Posted April 4, 2023  
(\$ in thousands)

Maintenance Capital Expenditure Description	2023	2023	Increase/ (Decrease)
	Posted April '23	Posted December '22	
Pipeline Assessments	\$ 65,650	\$ 61,673	\$ 3,977
Compression Replacement	18,339	11,144	7,195
LNG Replacement	24,437	38,375	(13,938)
Underground Storage PHMSA	451	-	451
Vintage Pipeline Replacement	69,772	47,571	22,201
MAOP Reconfirmation	11,065	9,973	1,092
Remote Mitigation Valves	3,262	2,242	1,020
<b>Total Asset Modernization</b>	<b>\$ 192,976</b>	<b>\$ 170,978</b>	<b>\$ 21,998</b>
Building/Facility	9,867	4,100	5,767
Pipeline Integrity	31,247	24,283	6,964
Shallow/Exposed Pipe	35,057	30,687	4,370
Measurement	13,967	8,336	5,631
Automation/Controls	17,614	17,272	342
Pipeline Relocation	2,075	1,220	855
Compressor Modifications	36,074	31,481	4,593
Underground/LNG Storage	8,478	9,186	(708)
Heaters	9,496	8,565	931
Valve Replacement	8,149	3,070	5,079
Corrosion Control	19,835	17,510	2,325
Odorization	6,750	7,242	(492)
Pipeline Safety Act HCA	11,383	17,330	(5,947)
Unit Exchange	2,544	2,522	22
Systems Development	13,577	7,438	6,139
Special Projects	8,460	3,134	5,326
Retirements	2,936	4,500	(1,564)
Emergency Shutdown Controls	7,230	6,894	336
Automobile/Powered Work Equipment	3,530	3,192	338
Information Technology	14,357	13,365	992
Other	86,590	27,653	58,937
<b>Other Maintenance Capital</b>	<b>\$ 349,216</b>	<b>\$ 248,980</b>	<b>\$ 100,236</b>
<b>Total Maintenance Capital</b>	<b>\$ 542,192</b>	<b>\$ 419,958</b>	<b>\$ 122,234</b>
Maintenance Capital Target Appendix D of Settlement	\$ 317,000	\$ 317,000	
<b>Variance - Increase/(Decrease)</b>	<b>\$ 225,192</b>	<b>\$ 102,958</b>	