



The High Cost of New York Gas Utilities’ Leak-Prone Pipe Replacement Programs

Why conduct an analysis of leak-prone pipe?

New York’s gas utilities collectively have about 7,000 miles of aging, leak-prone cast iron and unprotected steel pipes in place for both mains and service lines to individual customers throughout their distribution systems. These utilities are currently replacing sections of this leak-prone pipe (LPP) and have plans to continue replacing it far into the future.

Leaking pipes emit methane gas, a powerful greenhouse gas (GHG), into the atmosphere. Replacing actively leaking pipes reduces GHG emissions and safety risks. However, utilities are replacing both actively leaking pipe and pipe that is not yet leaking. Utilities recover their investments to replace pipes from ratepayers over the life of the new pipes. Historically, utilities have assumed these useful lives will be more than 50 years.

Continuing replacement of LPP at current rates will result in growing undepreciated asset balances for many years to come. These investments will lead to

billions of dollars in additional revenue required to be collected from ratepayers to cover the cost of the new pipes, a return on that investment for utility investors, and property and income taxes. Greater revenue requirements will lead to future increases in gas rates.

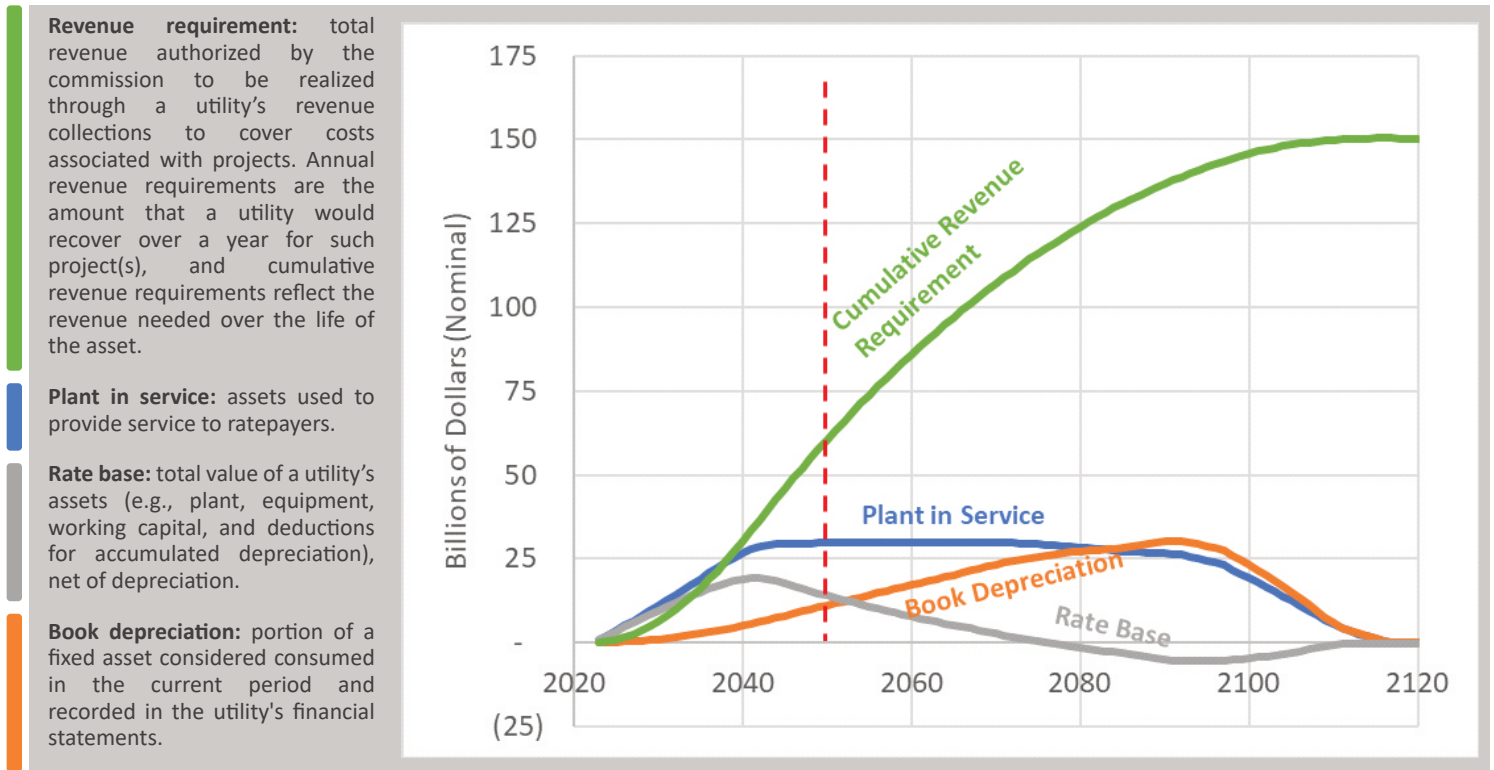
So, if New York’s gas utilities continue their current trends for LPP replacement, how big are the impacts on revenue requirements?

Description of analysis

Synapse conducted an analysis of the future costs of replacing the remaining LPP for six New York utilities: Con Edison (ConEd), KEDLI (aka KeySpan Gas East Corp d/b/a National Grid NY), KEDNY (aka Brooklyn Union Gas Company d/b/a National Grid), National Fuel Gas (NFG), Niagara Mohawk (NiMo), and New York State Electric and Gas (NYSEG). According to the Pipeline and Hazardous Materials Safety Administration, the federal pipeline safety regulator, these six utilities cover 97 percent of existing LPP miles of mains in the state, and 87 percent of the LPP mains replaced in 2021.

	Existing LPP Mains (miles)	% of Total NY Existing LPP Mains	2021 Replaced LPP Mains (miles)	% of Total NY LPP Replacement
ConEd	1578	22%	83	26%
KEDNY	1437	20%	47	15%
KEDLI	2127	30%	17	5%
NFG	1399	20%	88	27%
NiMo	290	4%	39	12%
NYSEG	42	1%	4	1%
Subtotal	6873	97%	279	87%

Figure 2. New York gas utilities' expanding revenue requirements, in the context of New York's zero-emissions target date (dotted red line)



There is growing recognition that reliance on these alternative fuels is insufficient to meet New York's GHG-reduction targets. The state's Climate Scoping Plan states that "achievement of the emission limits will entail a substantial reduction of fossil natural gas use and strategic downsizing and decarbonization of the gas system."¹ Continuing to replace LPP at the present pace, or consistent with the utilities' stated

goals for pipe replacement, risks incurring substantial costs to extend the life of a system that needs to be downsized in just a few years. Those costs would be spread over fewer gas sales, resulting in greater rate increases and encouraging defection of customers from the gas system—potentially causing an unsustainable feedback loop.

¹Climate Scoping Plan, Page 350.