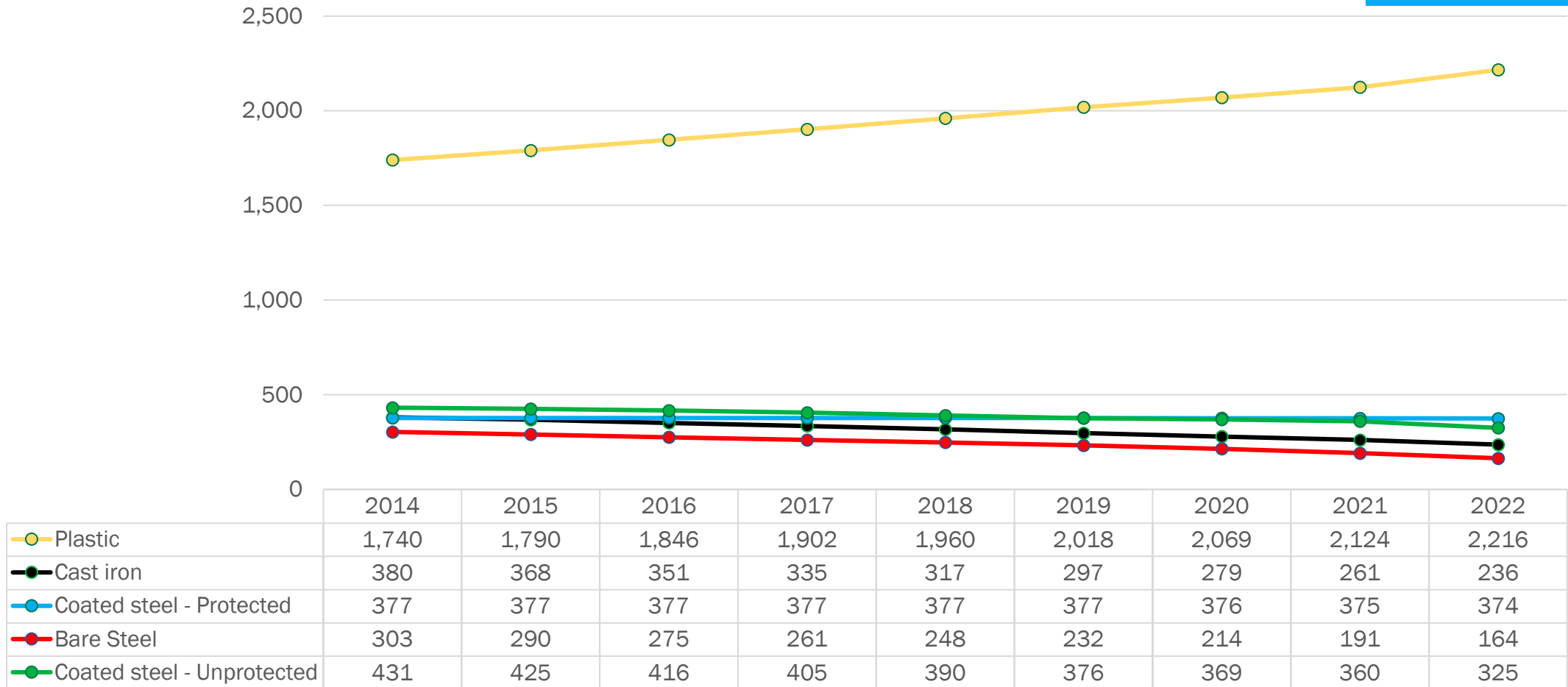


GSEP Working Group

NSTAR and EGMA

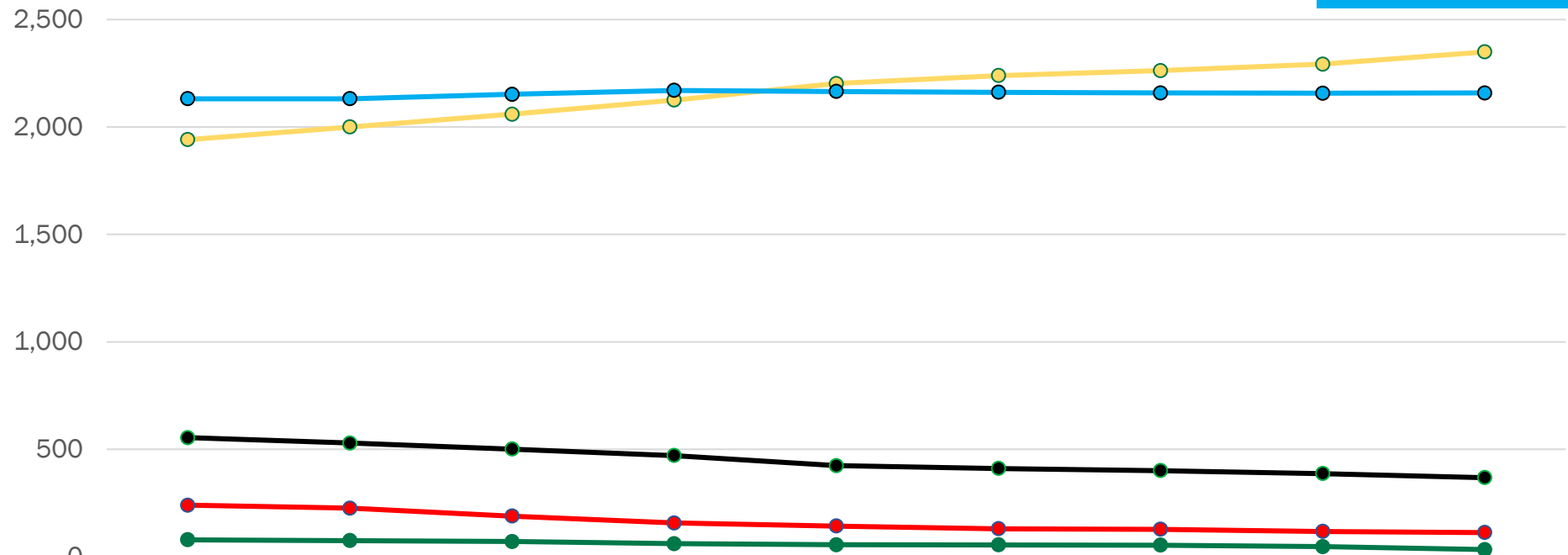
11/9/2023

Main Inventory by Material – NSTAR



- 389 miles of leak prone pipe (cast iron, unprotected steel) replaced via GSEP through 2022.
- Leak prone mains reduced from 34.5% to 22.0% of total main inventory.
- 725 miles of leak prone main in inventory at YE 2022.
- Projected leak prone main inventory will be 665 miles at the end of 2023.

Main Inventory by Material – EGMA

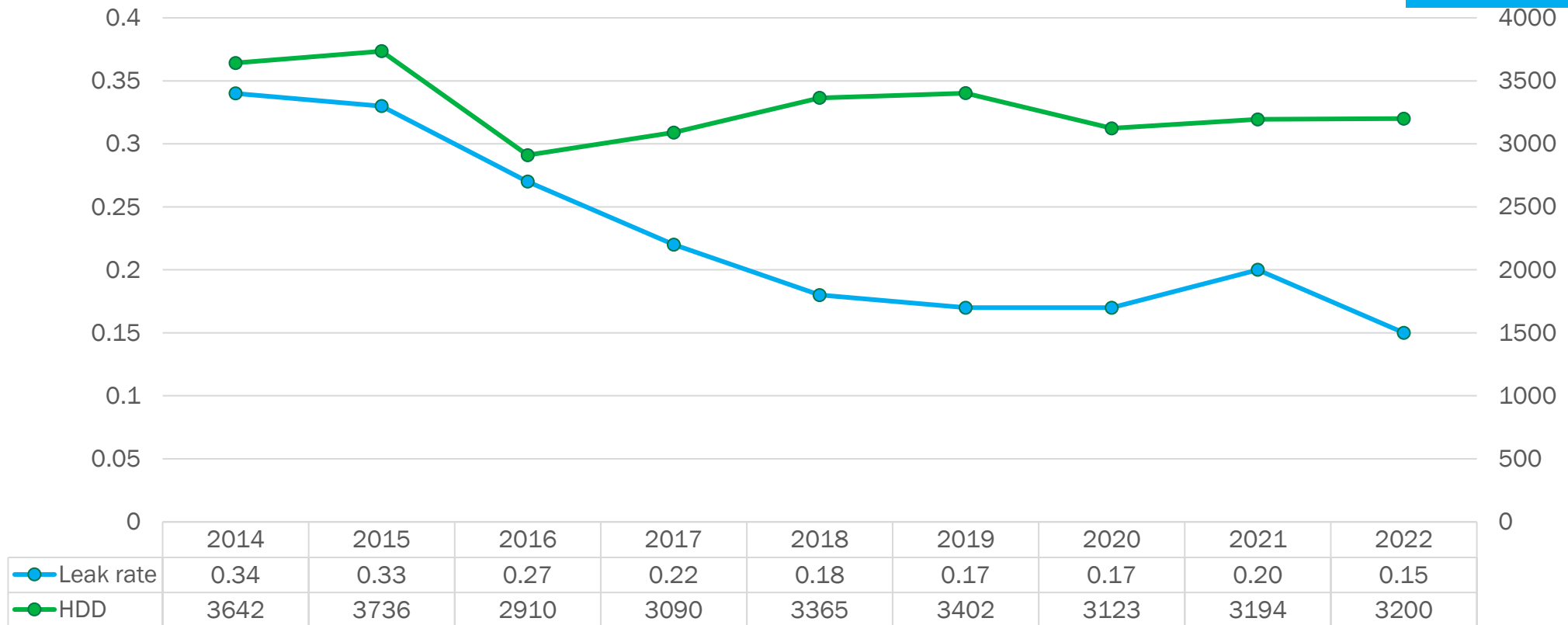


| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plastic | 1,941 | 2,000 | 2,059 | 2,125 | 2,202 | 2,239 | 2,262 | 2,292 | 2,349 |
| Cast Iron | 554 | 529 | 501 | 471 | 424 | 411 | 401 | 387 | 368 |
| Coated Steel - Protected | 2,131 | 2,131 | 2,152 | 2,170 | 2,165 | 2,161 | 2,158 | 2,157 | 2,158 |
| Bare Steel | 240 | 226 | 189 | 157 | 143 | 130 | 128 | 118 | 113 |
| Coated steel - Unprotected | 79 | 75 | 71 | 61 | 56 | 55 | 54 | 47 | 33 |

- 359 miles of leak prone pipe (cast iron, unprotected steel) replaced via GSEP through 2022.
- Leak prone mains reduced from 17.7% to 10.2% of total main inventory.
- 514 miles of leak prone main in inventory at YE 2022.
- Projected leak prone main inventory will be 474 miles at the end of 2023.

Source: Form PHMSA F7100.0-1

Leak Rate – NSTAR

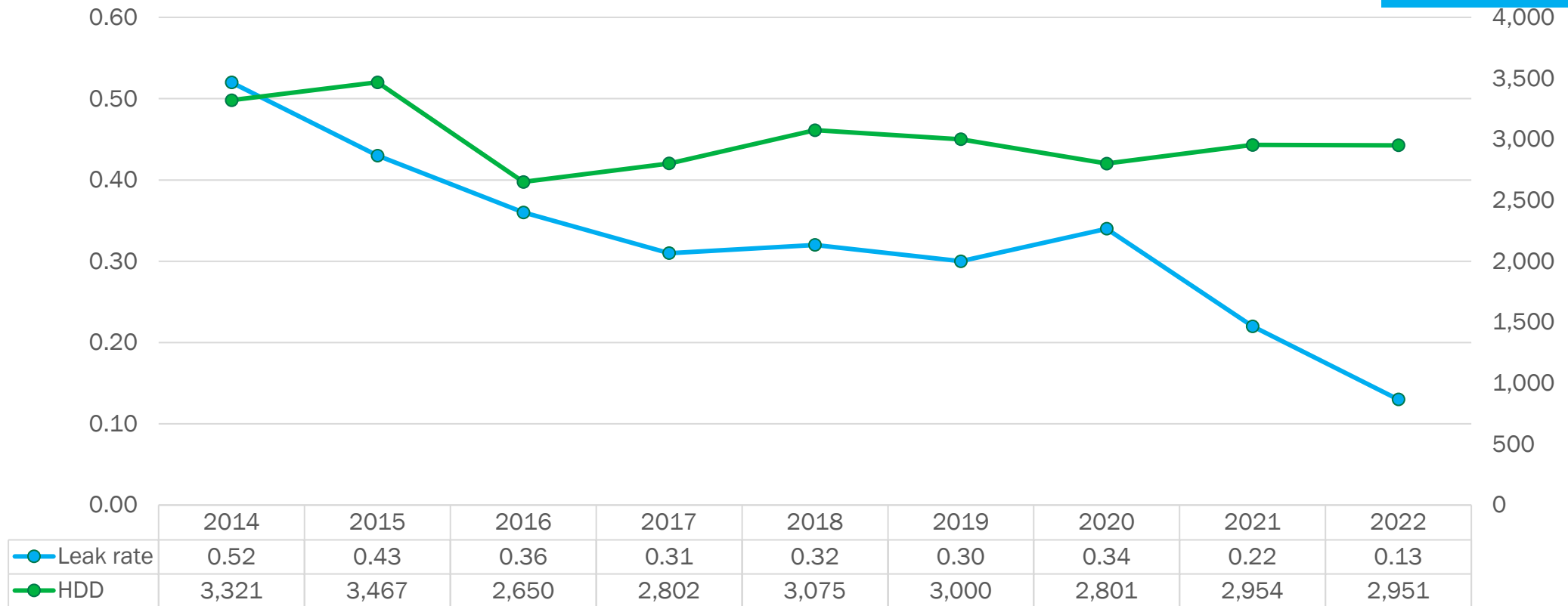


- The leak rate reduced by 56% from 2014 to 2022.
- The total number of Class 1 and Class 2 leaks reduced by 52% from 2014 to 2022.

$$\text{Leak rate} = \frac{\text{Main and service leaks excluding damages}}{\text{Total miles of main + miles of services}}$$

Source: Form PHMSA F7100.0-1

Leak Rate – EGMA

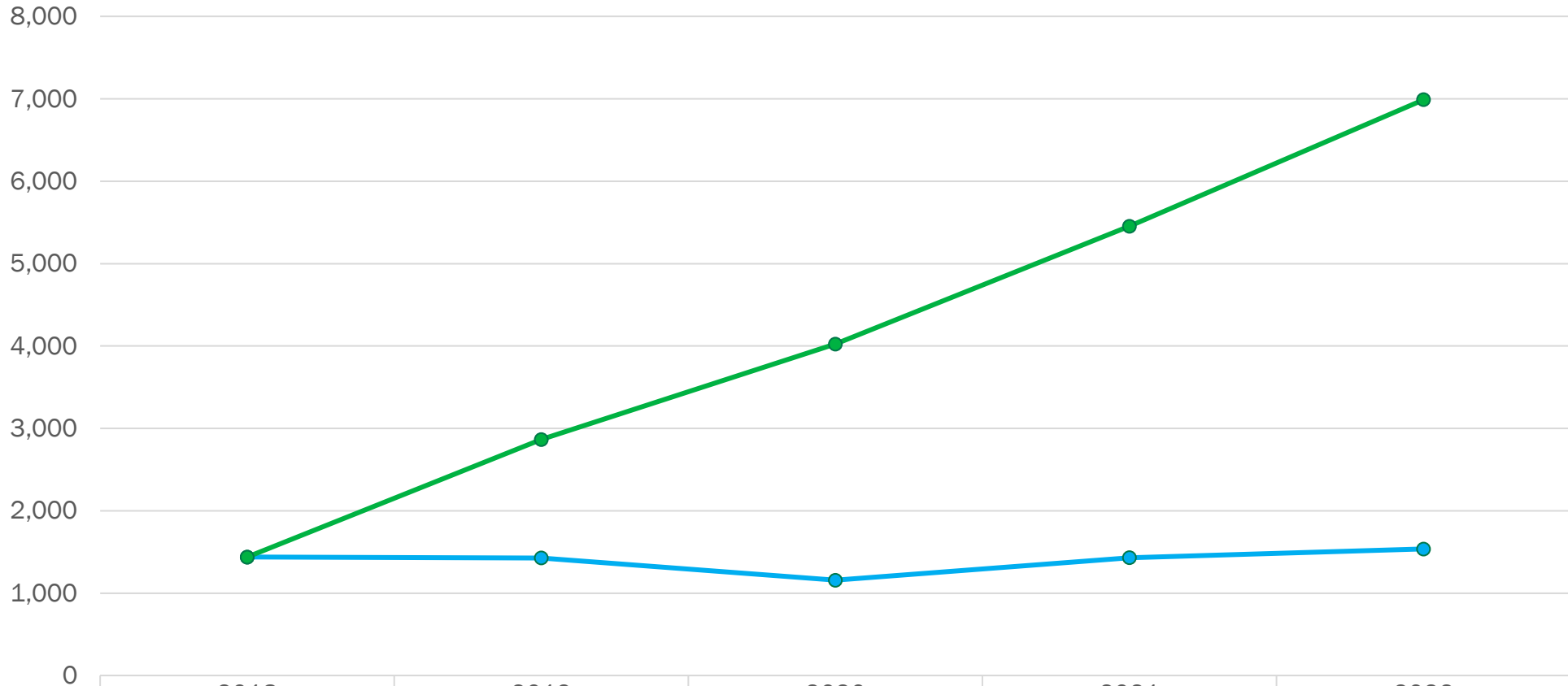


- The leak rate reduced by 75% from 2014 to 2022.
- The total number of Class 1 and Class 2 leaks reduced by 65% from 2014 to 2022.

$$\text{Leak rate} = \frac{\text{Main and service leaks excluding damages}}{\text{Total miles of main + miles of services}}$$

Source: Form PHMSA F7100.0-1

Emission Reductions Through GSEP Program Last Five Years – NSTAR

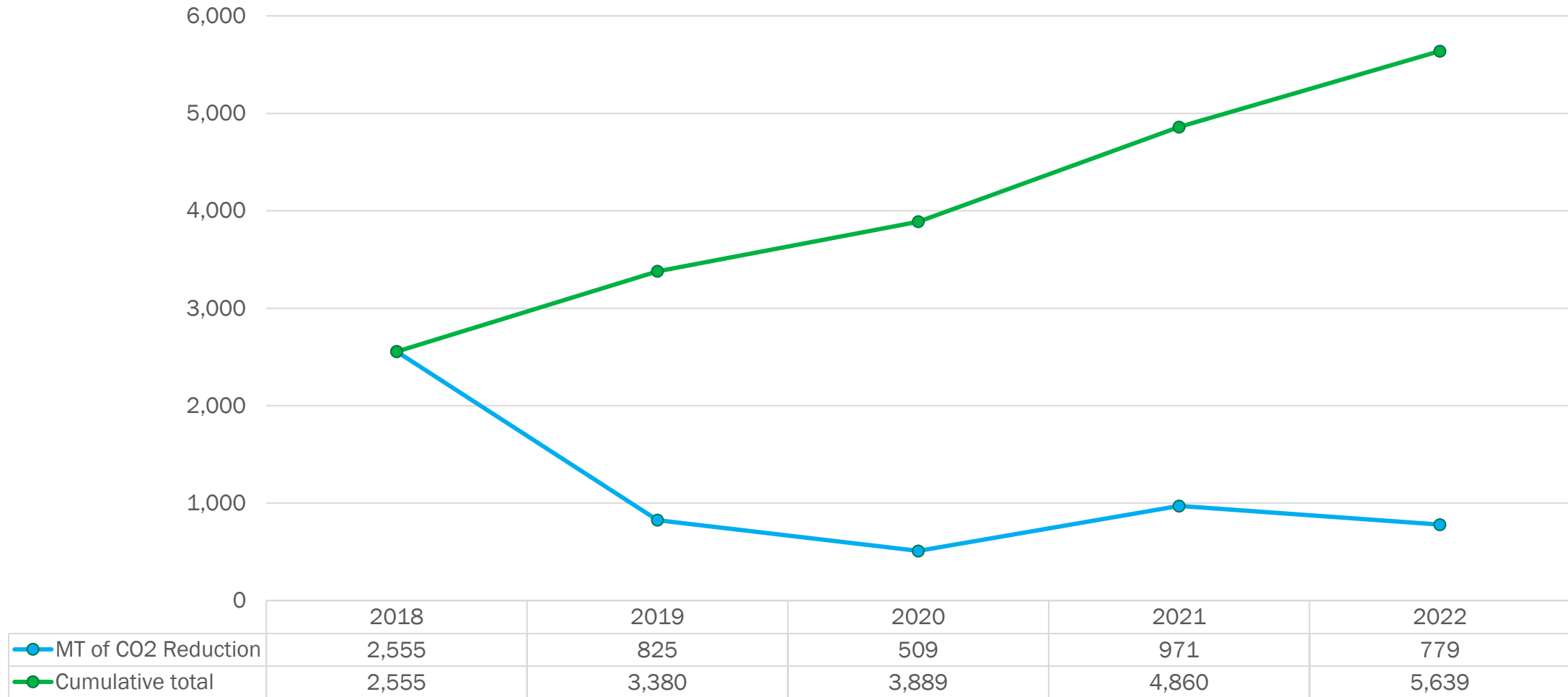


● MT of CO2 Reduction
● Cumulative total

| | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------|-------|-------|-------|-------|-------|
| MT of CO2 Reduction | 1,438 | 1,428 | 1,158 | 1,430 | 1,536 |
| Cumulative total | 1,438 | 2,866 | 4,024 | 5,454 | 6,990 |

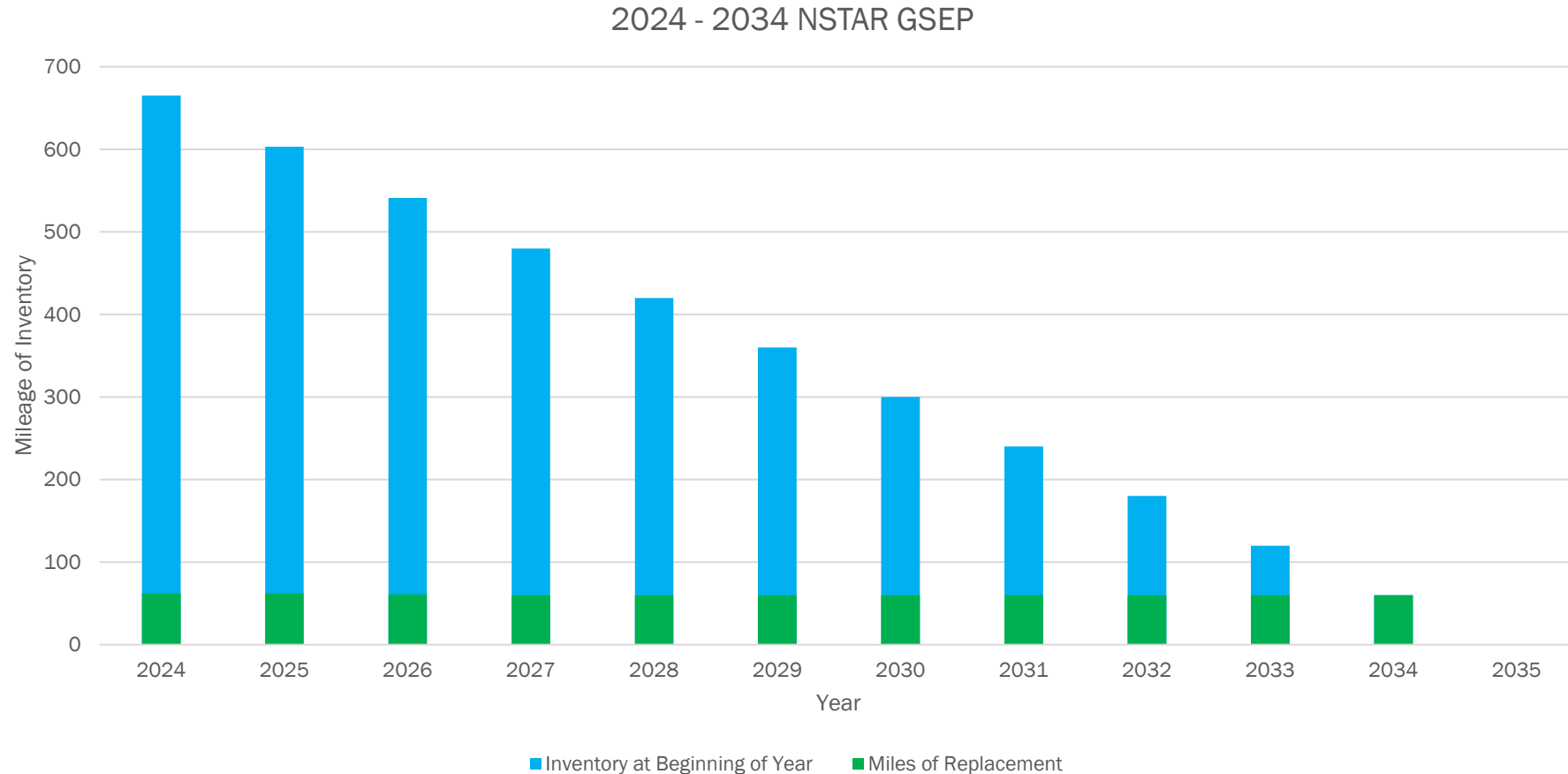
Eversource used EPA emission factors up to 2017; switched to DEP in 2018.

Emission Reductions Through GSEP Program Last Five Years – EGMA



Eversource used EPA emission factors up to 2017; switched to DEP in 2018.

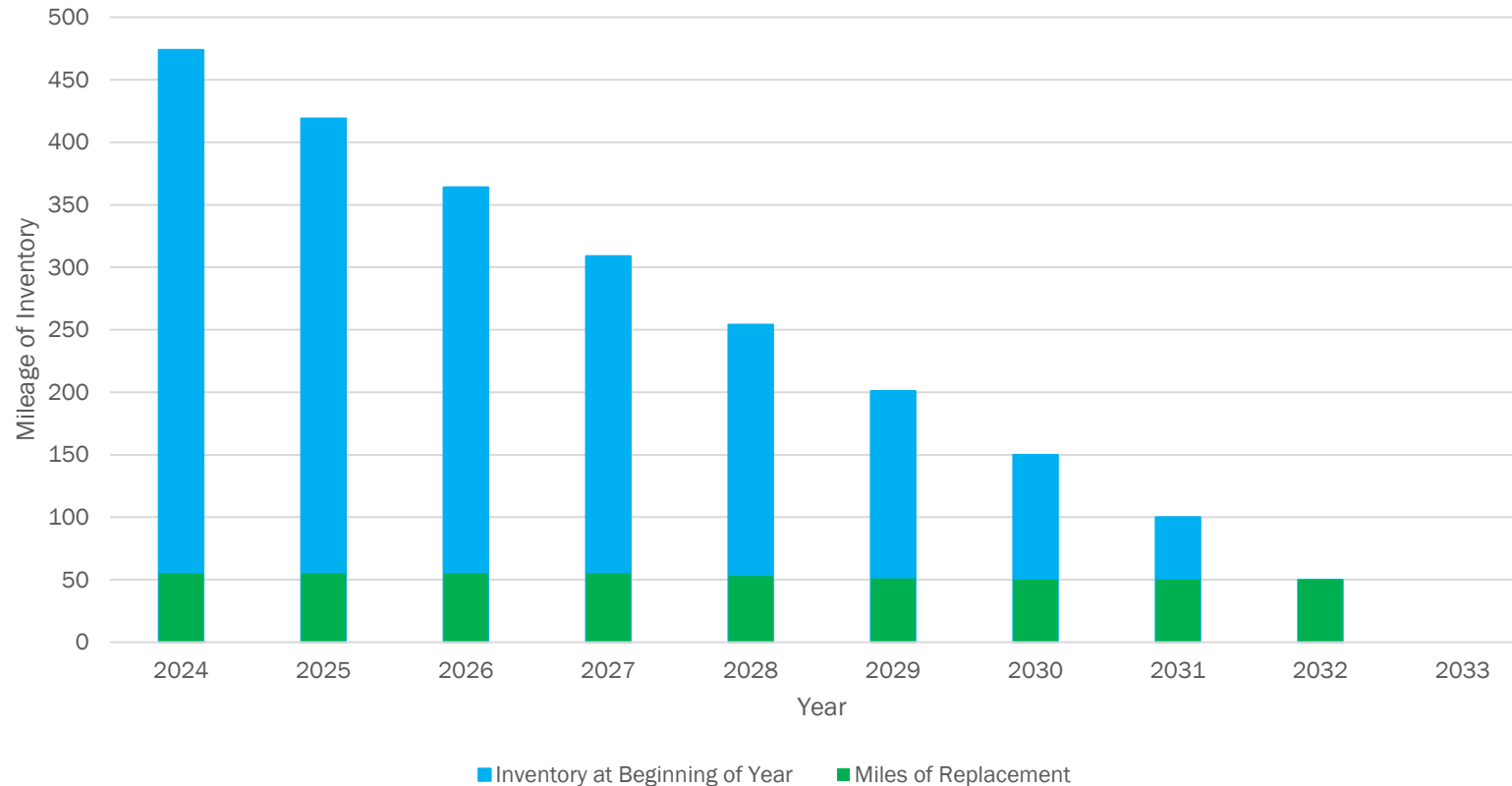
Total Cost GSEP Program – NSTAR



- NSTAR is on pace to replace 665 miles of leak prone inventory from 2024 – 2034, with an approximate total cost of \$2.4B.
- This cost was calculated assuming 3% inflation annually.

Total Cost GSEP Program – EGMA

2024 - 2032 EGMA GSEP



- EGMA is on pace to replace 474 miles of leak prone inventory from 2024 – 2032, with an approximate total cost being of \$1.4B.
- This cost was calculated assuming 3% inflation annually.