



Climate Change Benefits & Greenhouse Gas (GHG) Reductions

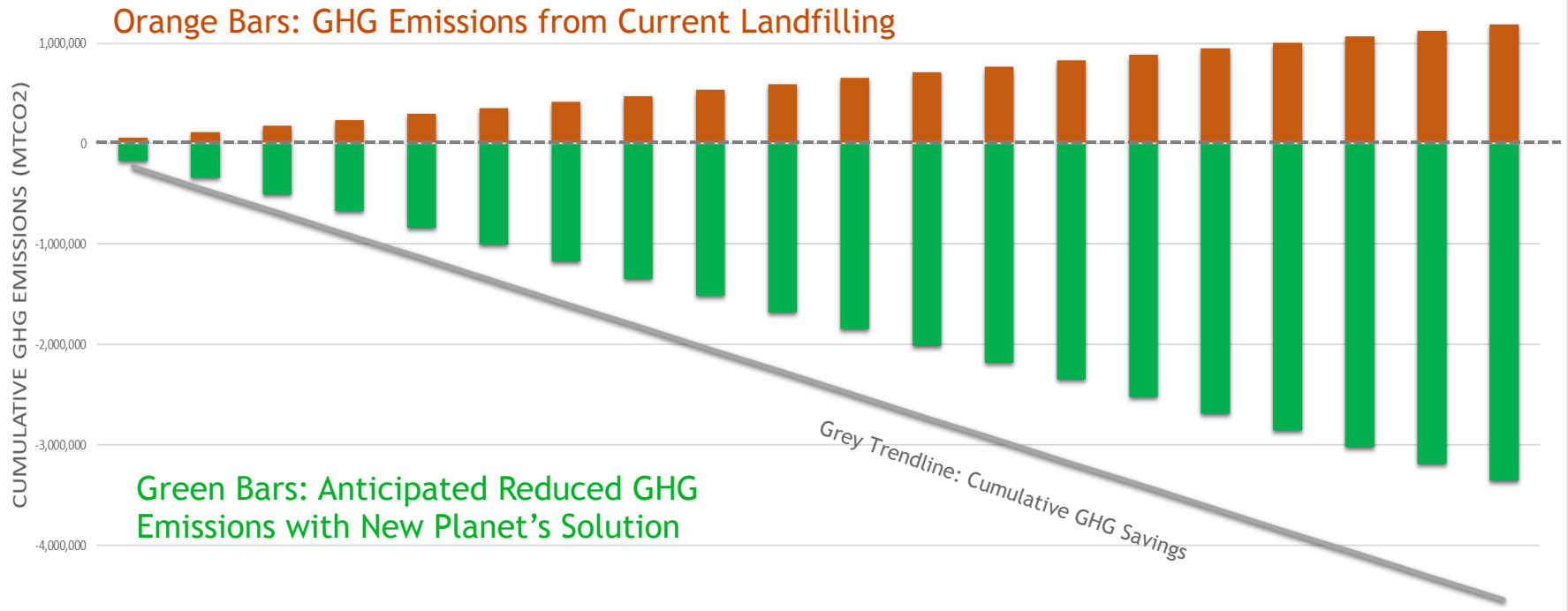
BY IMPLEMENTING NEW PLANET'S SOLUTION, THE REGION ACHIEVES:

- ❑ Over **80% landfill diversion** and becomes the first major metropolitan area to substantially achieve its **Zero Waste goal**.
- ❑ **Saves 4.54 million tons of GHG emissions** over the life of the project, which is a **383% improvement** over the current practice.¹
- ❑ **Diverts ~270,000 tons** of waste per year from area landfills. Landfilled waste is the 3rd largest source of biogenic methane gas release to the environment.
- ❑ Environmental benefits equal to:
 - Removal of **~48,000 cars** from the road each year,
 - Conservation of **~512 million gallons of gasoline** over the life of the project, or
 - Conservation of **~190 million cylinders of propane** over the life of the project.²
- ❑ **Social Justice** benefits³ stemming from **improved health conditions, cleaner air**, and **better paying jobs** with New Planet's investment in an **Opportunity and Promise Zone**.

1. GHG emissions calculations based on output from EPA WARM model, version 15
2. Savings include additional 34,000 tpy to adjust for SRF combustion compared to 100% coal baseline fuel used by cement kiln
3. *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment*, doi:10.7930/nca4.2018

NEW PLANET'S CLIMATE CHANGE BENEFITS

Cumulative GHG Emissions for 324,000 tpy of MSW



	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Existing	59,200	118,400	177,600	236,800	296,000	355,200	414,400	473,600	532,800	592,000	651,200	710,400	769,600	828,800	888,000	947,200	1,006,400	1,065,600	1,124,800	1,184,000
Alternative	(167,800)	(335,600)	(503,400)	(671,200)	(839,000)	(1,006,800)	(1,174,600)	(1,342,400)	(1,510,200)	(1,678,000)	(1,845,800)	(2,013,600)	(2,181,400)	(2,349,200)	(2,517,000)	(2,684,800)	(2,852,600)	(3,020,400)	(3,188,200)	(3,356,000)
Cumulative Savings	(227,000)	(454,000)	(681,000)	(908,000)	(1,135,000)	(1,362,000)	(1,589,000)	(1,816,000)	(2,043,000)	(2,270,000)	(2,497,000)	(2,724,000)	(2,951,000)	(3,178,000)	(3,405,000)	(3,632,000)	(3,859,000)	(4,086,000)	(4,313,000)	(4,540,000)

YEAR