

New Jersey Clean Air Council Annual Public Hearing
Past, Present, and Future: Air Quality Around Our Ports and Airports
Maher Terminals LLC
July 30, 2020



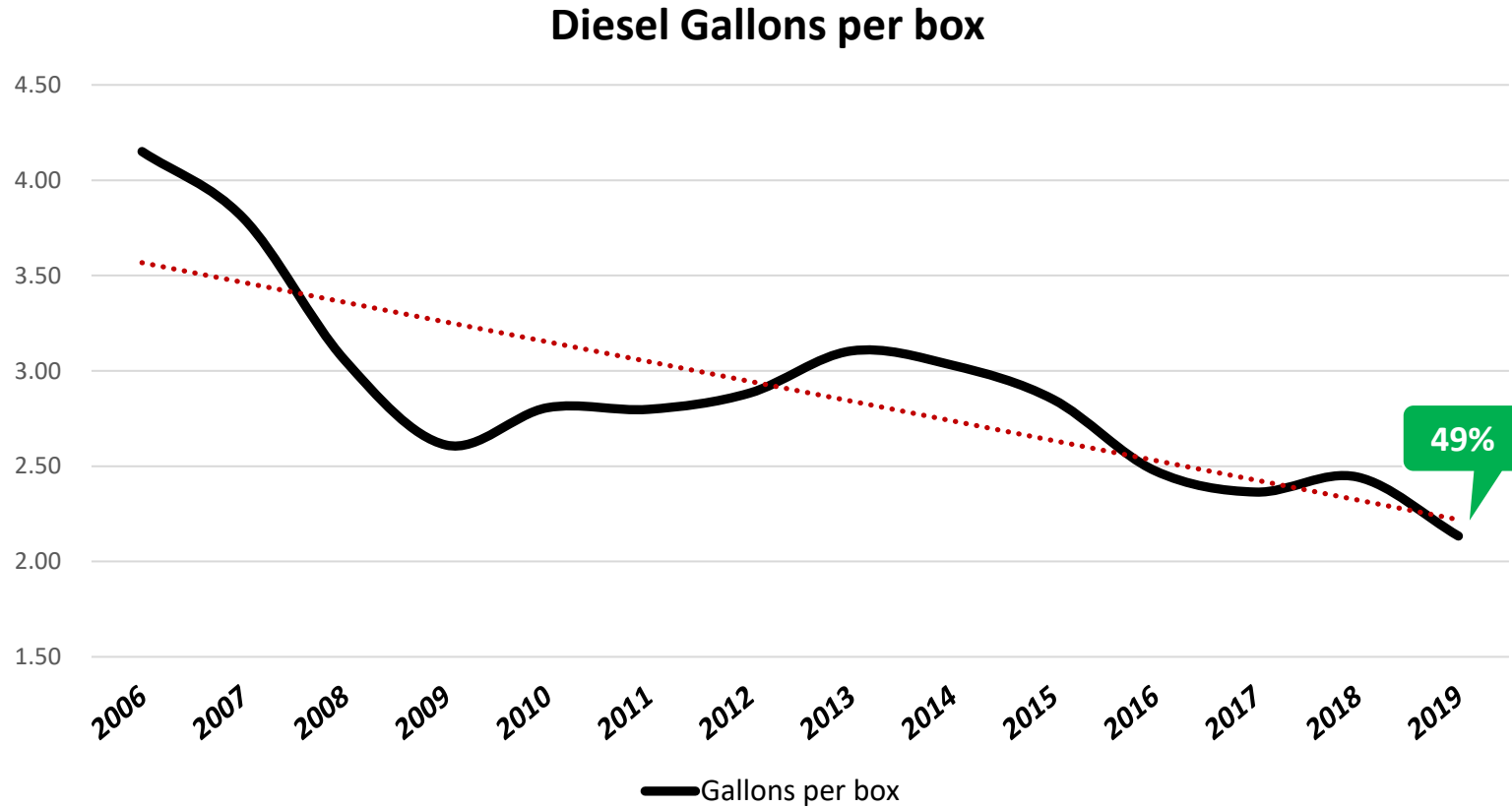


Maher Terminals has implemented numerous sustainability initiatives over the past 14 years to significantly reduce its GHG emissions beginning in 2006

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Scope 1 Diesel fuel (2006 - 2019)

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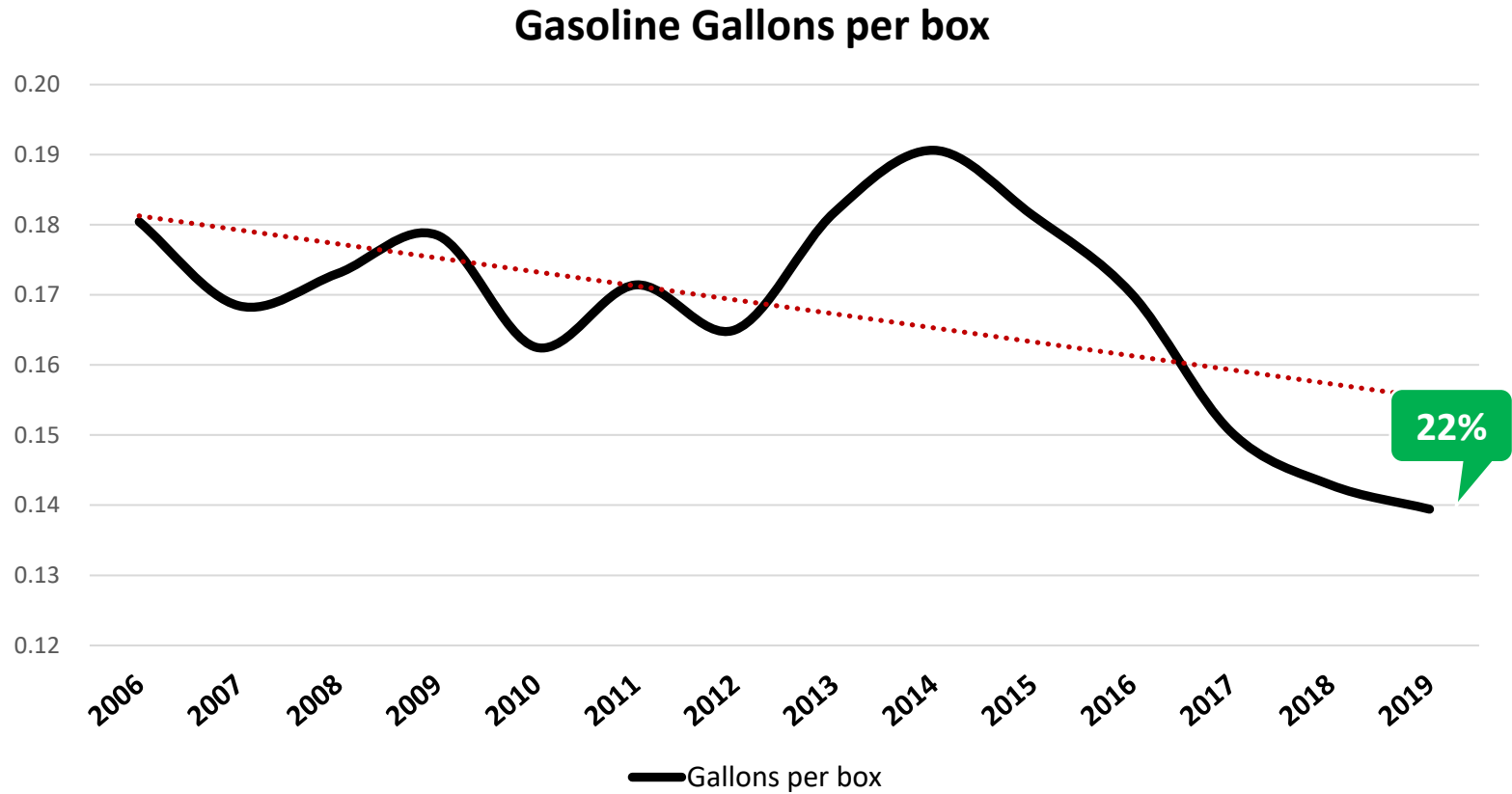


Diesel per box has declined from 4.15 in 2006 to 2.13 in 2019

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Scope 1 Gasoline (2006 - 2019)

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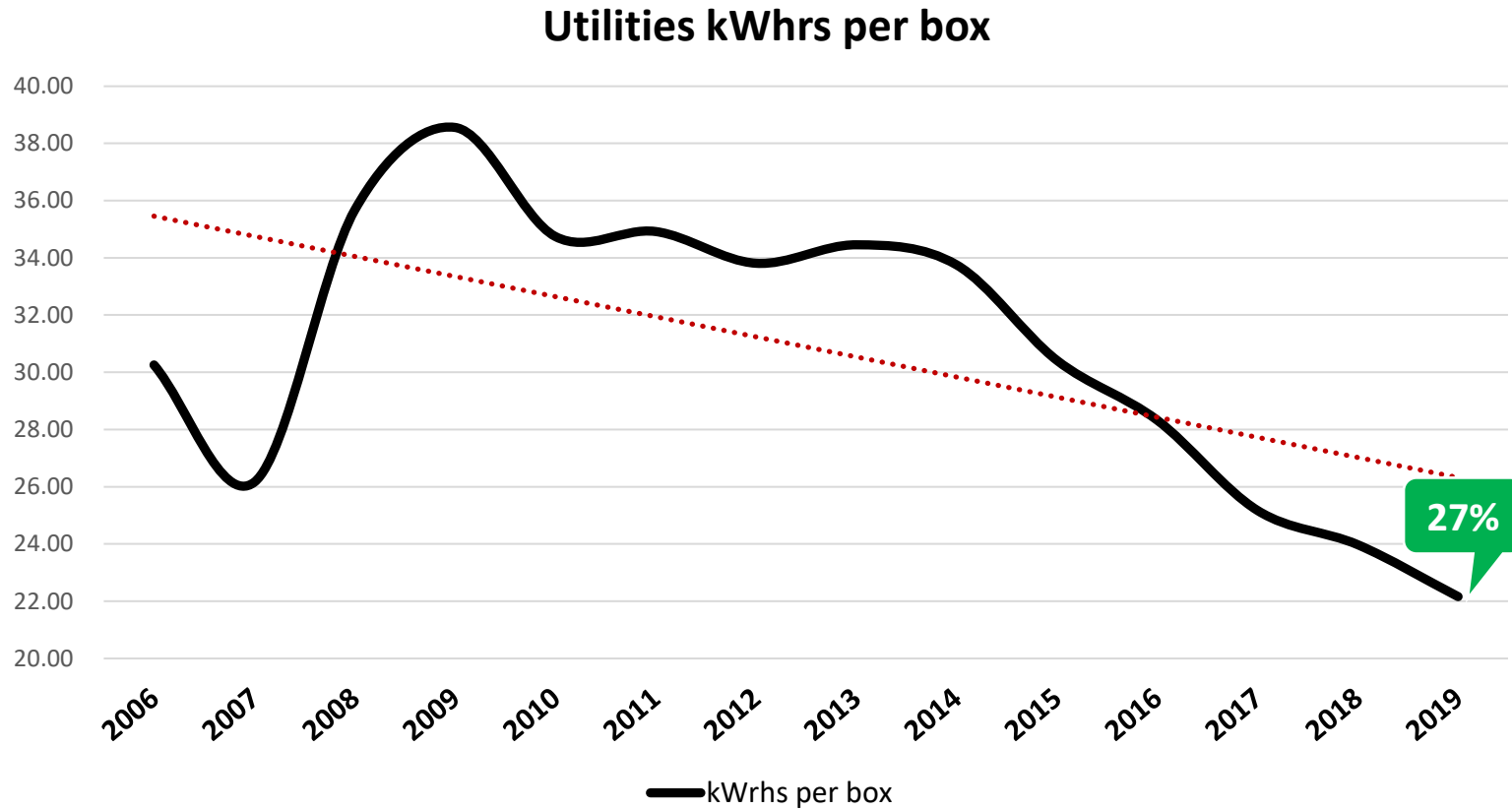


Gasoline per box has declined from 0.18 in 2006 to 0.14 in 2019

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Scope 2 Utilities (2006 - 2019)

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kWhrs per box have declined from 30.3 in 2006 to 22.2 in 2019

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Sustainability initiatives - reduced GHG emissions (tCO₂e) - 2006 to 2019

Scope 1 emissions

- Scope 1 emissions are direct greenhouse gas (GHG) emissions occurring from owned or controlled operational sources
- Direct emissions include on-site fossil fuel combustion and fleet fuel consumption
- The greenhouse gases CO₂, CH₄, and N₂O are emitted during the combustion of fuels in mobile sources

Scope 2 emissions

- Scope 2 emissions are indirect greenhouse gas (GHG) emissions occurring during external production of energy for purchase from a utility provider
- Indirect emissions include those emissions generated by the utility provider (i.e., electricity, heat or steam)

Reduced GHG emissions from sustainability initiatives

Total GHG
emission
reduction:
17,620
tCO₂e
per annum

OR

43,661,700



miles driven by
an average
passenger
vehicle

2,022



homes' energy
use for one
year

1,706,166



gallons of oil
consumed



Maher Terminals has identified 15 forward-looking initiatives for the next 5 years to further reduce its GHG emissions (2020 - 2025)

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Sustainability initiatives - total energy savings

| | | Initiative | Electric kWhr | Diesel Gallons | Gasoline Gallons | Water Gallons | Environmental Impact |
|----------------------------------|---|---|---------------|----------------|------------------|---------------|--------------------------------------|
| Current successes | ① | Straddle carrier radiation portal for rail containers | - | 61,470 | - | - | Reduced emissions via productivity |
| | ② | Reef deployment project | - | - | - | - | Natural fish habitat |
| | ③ | Straddle improvements | | 100,800 | | | Reduced emissions via productivity |
| | ④ | Crane improvements | 70,655 | - | - | - | Reduced emissions via productivity |
| | ⑤ | High mast and crane lighting upgrades | 3,766,783 | - | - | - | Energy efficiencies / worker safety |
| | ⑥ | General building lighting / window film | 357,367 | - | - | - | Energy efficiencies |
| | ⑦ | Service vehicle idle shutdown | - | - | 25,946 | - | Reduced emissions |
| | ⑧ | Water management - domestic / oily | - | - | - | 1,094,750 | Reduced water consumption |
| | ⑨ | Bridges to Prosperity | - | - | - | - | Societal benefit |
| Short & Mid term actions | ⑩ | Production of solar powered energy | 173,858 | - | - | - | Production of renewable energy |
| | ⑪ | Infrastructure upgrades | 446,421 | 282,137 | - | - | Reduced emissions via productivity |
| | ⑫ | Tire recycling - recap program | - | - | - | - | Reduced purchases / waste disposal |
| | ⑬ | Digital process improvements | 312,338 | 77,042 | - | - | Reduced emissions via productivity |
| Future goals | ⑭ | Asphalt recycling | - | - | - | - | Reduced consumption of raw materials |
| | ⑮ | Socializing sustainability | - | - | - | - | Informed Maher employees |
| Total energy savings - per annum | | | 4,976,168 | 521,449 | 25,946 | 1,094,750 | |

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Sustainability initiatives - reduced GHG emissions (tCO₂e) - 2020 to 2025

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- The greenhouse gases CO₂, CH₄, and N₂O are emitted during the combustion of fuels in mobile sources

Scope 2 emissions

- Scope 2 emissions are indirect greenhouse gas (GHG) emissions occurring during external production of energy for purchase from a utility provider
- Indirect emissions include those emissions generated by the utility provider (i.e., electricity, heat or steam)

Reduced GHG emissions from sustainability initiatives

Total GHG
emission
reduction:
7,271
tCO₂e
per annum

OR

17,777,506



miles driven by
an average
passenger
vehicle

835



homes' energy
use for one
year

701,484



gallons of oil
consumed



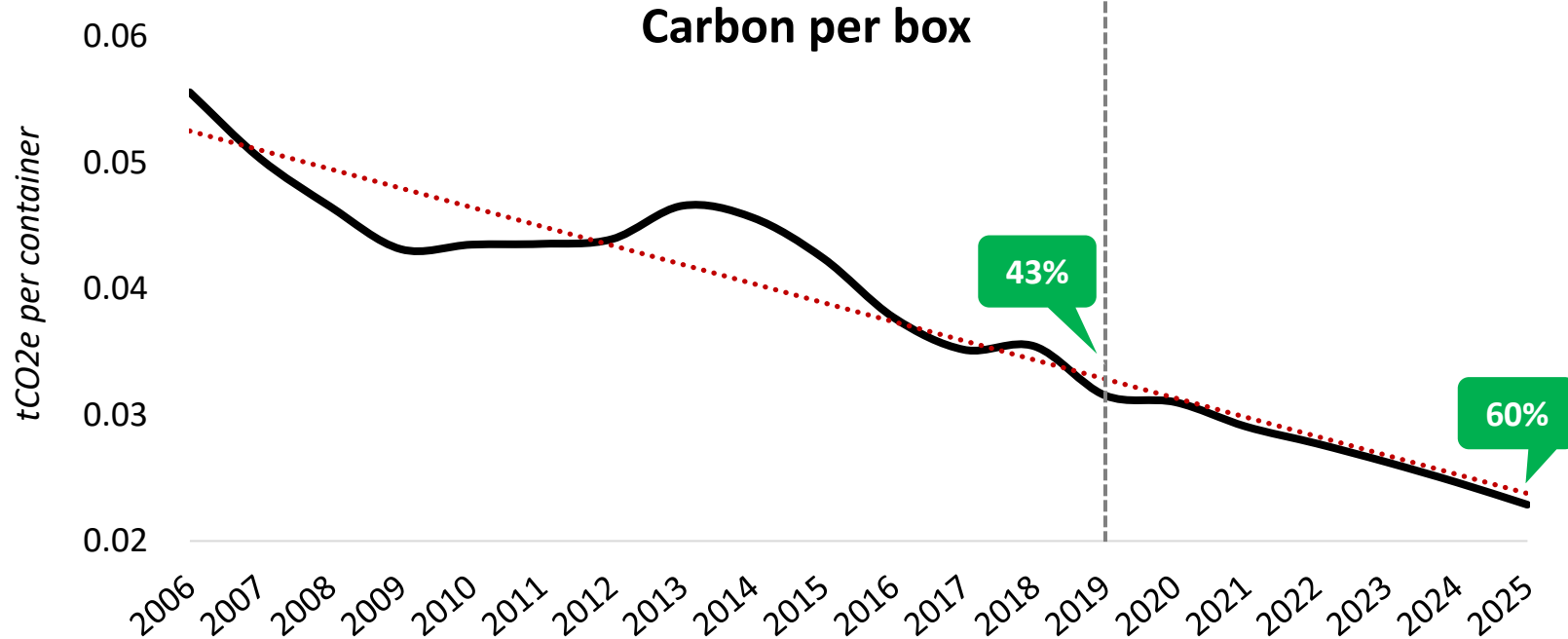
*Over a 20-year time period (2006 - 2025),
Maher is targeting a reduction of 60% in
carbon per box, and an 80% GHG
reduction by 2050*

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Reduction of GHG - 2006 to 2025 (carbon per box)

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Maher's carbon per box (tCO₂e) has declined 43% and will further decline to 60% by 2025 (vs. 2006)



Carbon per box will be reduced from 0.056 tCO₂e in 2006 to 0.022 in 2025, a 60% reduction (vs. 2006)

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Sustainability initiatives - reduced GHG emissions (tCO₂e) - 2006 to 2025

Scope 1 emissions

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Scope 2 emissions

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Reduced GHG emissions from sustainability initiatives

Total GHG
emission
reduction:
24,891
tCO₂e
per annum

OR

61,439,206



miles driven by
an average
passenger
vehicle

2,857



homes' energy
use for one
year

2,407,650



gallons of oil
consumed



Maher's ESG strategy extends beyond GHG reductions, and also encompasses social and other environmental matters

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2020 next steps - other ESG initiatives

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Maher Terminals ESG Initiatives

- ❑ More than half of Maher's management team volunteered to serve on an environmental and sustainability committee
- ❑ These committees are working on different ideas and projects; some examples are:
 - eco-friendly packaging and dinnerware in the cafeteria
 - "leave it on the screen" campaign to reduce document printing
 - Elizabeth cleanup program for Earth Day
 - expand electric car charging availability
 - reduce paper receipts issued to truckers by offering emailed receipt
 - vehicle idle shutdown program
 - low-flow toilets and no-touch, timed faucets
 - support a charity day

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Bridges to Prosperity

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Bridges to Prosperity



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Maher Terminals Reef

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Maher Terminals Reef

