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Boeing grant teaches students about stormwater stewardship

With support from a Boeing grant in 2022, EarthGen engaged 2,000 students across four Puget Sound school districts in its Stormwater Stewards program.

Why it matters: Middle and high school students learned about watersheds and the impact of stormwater runoff, investigated their local watersheds and then designed and implemented green stormwater infrastructure projects to improve water quality in their community. Students cared for and maintained these rain gardens as part of the program.

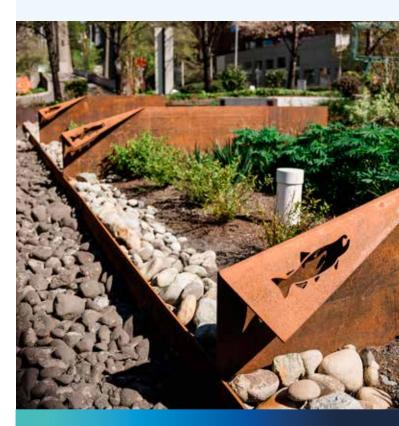
Middle school students plant in their rain garden in the Seattle suburb of Burien. (EarthGen photo)

Go deeper: A 2021 grant from Boeing helped EarthGen expand the Stormwater Stewards program into two additional Puget Sound school districts, which worked to add sustainable treatment for approximately 625,000 gallons of water.

Rain gardens under busy Seattle bridge filter water, protect salmon

The Aurora Bridge Bioswale project was designed to clean up polluted stormwater coming off this Seattle bridge. Runoff passes through a series of rain gardens below. The project serves as a model for others that The Nature Conservancy and its partners support, such as the I-5 Ship Canal stormwater park, which is currently being planned with funding from Boeing.

(Photo: Courtney Baxter/The Nature Conservancy)



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Boeing and Amideast partner to expand STEM access

At the UN Climate Change Conference COP27 held in Sharm El-Sheikh, Egypt, Amideast and Boeing announced an expanded partnership to support more Egyptian young people through STEM education with a focus on sustainability.

Go deeper: The expanded partnership will include STEM programs in robotics, graphics, animation, 3D printing, programming and web development; a STEM entrepreneurship competition; and a new STEM Program for Climate Sustainability, including advocacy efforts like STEM Talks and a sustainability podcast.

Why it matters: This grant from Boeing helps Amideast align STEM activities with Egypt's sustainable development strategy. In line with the UN Sustainable Development Goal (SDG) 4, Quality Education, STEM education fosters creativity and empowers young people to become critical thinkers and problem solvers who can address global challenges.



Boeing and Amideast have supported

22,000+ students in Egypt since 2007

Kuljit Ghata-Aura, Boeing president in the Middle East, Türkiye and Africa, and Shahinaz Ahmed, Amideast country director in Egypt (pictured, center), announce an expanded partnership between Boeing and Amideast. (Boeing photo)



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This Sustainability Report has been prepared in alignment with the GRI 2021 Standards. The GRI Index below indicates the location of each GRI disclosure within this Sustainability Report, on our external website or other Boeing reports, or it states the information directly. In the SASB Index and TCFD Index, we have aligned our disclosures with the recommended disclosures and metrics in the SASB Aerospace & Defense Standard and the TCFD framework. We will continue to evaluate our disclosure approach moving forward to ensure we are providing relevant information in an efficient and effective manner.

All data within Key ESG Data, GRI, SASB and TCFD indexes is for the period from Jan. 1, 2022, through Dec. 31, 2022, unless otherwise noted.



REPORTING

Boeing Wideband Global SATCOM - 11 satellite. (Boeing image)

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Environmental Data

| | 20 | 22 | 20 | 21 | 20 | 020 |
|--|----------------|------------|----------------|------------|----------------|------------|
| Energy ¹ | Megawatt hours | Terajoules | Megawatt hours | Terajoules | Megawatt hours | Terajoules |
| Natural gas | 1,928,000 | 6,941 | 1,712,000 | 6,163 | 1,686,000 | 6,070 |
| Jet kerosene | 861,000 | 3,100 | 804,000 | 2,894 | 544,000 | 1,958 |
| Fuel oil #2 | 127,000 | 457 | 153,000 | 551 | 149,000 | 536 |
| Motor gasoline | 24,000 | 86 | 21,000 | 76 | 21,000 | 76 |
| Propane | 11,000 | 40 | 10,000 | 36 | 12,000 | 43 |
| Liquefied petroleum gas | 2,000 | 7 | 1,000 | 4 | - | - |
| Total nonrenewable fuels | 2,953,000 | 10,631 | 2,701,000 | 9,724 | 2,412,000 | 8,683 |
| Sustainable aviation fuel | 9,000 | 32 | 4,000 | 14 | 2,000 | 7 |
| Total renewable fuels | 9,000 | 32 | 4,000 | 14 | 2,000 | 7 |
| Purchased nonrenewable electricity | 1,350,000 | 4,860 | 1,482,000 | 5,335 | 1,686,000 | 6,070 |
| Purchased renewable electricity ² | 720,000 | 2,592 | 574,000 | 2,066 | 392,000 | 1,411 |
| Total purchased electricity | 2,070,000 | 7,452 | 2,056,000 | 7,402 | 2,078,000 | 7,481 |
| Total energy use | 5,033,000 | 18,119 | 4,761,000 | 17,410 | 4,492,000 | 16,171 |

- 1. Data represents 100% of the company.
- 2. Renewable electricity data excludes any renewable energy that is part of the grid by default, in alignment with SASB and other frameworks. Notably, Boeing operates in a number of grids that rely significantly on renewable sources.
- · Boeing did not sell any electricity, heating or cooling energy.

| Emissions ¹ | Tons CO ₂ e | Metric tons CO ₂ e | Tons CO ₂ e | Metric tons CO ₂ e | Tons CO ₂ e | Metric tons CO ₂ e |
|--|------------------------|-------------------------------|------------------------|-------------------------------|------------------------|-------------------------------|
| Scope 1 GHG ^{2,3} | 708,000 | 642,000 | 675,000 | 612,000 | 611,000 | 554,000 |
| Scope 2 GHG — location-based ^{2,3} | 859,000 | 779,000 | 830,000 | 753,000 | 840,000 | 762,000 |
| Scope 2 GHG — market-based ^{2,3} | 442,000 | 401,000 | 493,000 | 447,000 | 580,000 | 526,000 |
| Scope 3 GHG — business travel | 205,000 | 186,000 | 97,000 | 88,000 | 101,000 | 92,000 |
| Scope 3 GHG — use of sold products (Commercial Airplanes) ^{3,6} | 400,000,000 | 363,000,000 | 306,000,000 | 278,000,000 | 246,000,000 | 223,000,000 |
| Scope 3 GHG — use of sold products (Defense, Space & Security) 3,6 | 24,000,000 | 22,000,000 | 24,000,000 | 22,000,000 | 22,000,000 | 20,000,000 |
| Total calculated GHG excluding sold products | 1,355,000 | 1,229,000 | 1,264,000 | 1,147,000 | 1,292,000 | 1,172,000 |
| Core metrics sites GHG — location-based ⁴ | 724,000 | 657,000 | 702,000 | 637,000 | 713,000 | 647,000 |
| Core metrics sites GHG — market-based ⁴ | 323,000 | 293,000 | 376,000 | 341,000 | 452,000 | 410,000 |
| GHG Intensity⁵ | \$0.00002 | | \$0.00002 | | \$0.00002 | |

- 1. Emissions (Enterprise Scope 1, Scope 2, and Scope 3 Categories 6 and 11) data is verified by an accredited independent third party to the level of limited assurance, see assurance statements.
- 2. Scope 1 and Scope 2 data represents 100% of the company.
- 3. For Scopes 1, 2 and 3, we calculate emissions from CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₃ for this data set.

 4. Core metrics sites data represents emissions of CO₂, CH₄ and N₂O where we track a subset of emissions from natural gas combustion and purchased electricity associated with sites that represent the majority (70%) of Boeing operations.
- 5. GHG intensity includes Scope 1 and Scope 2 (market-based) GHG (CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₂).
- 6. Use of sold products emissions are based on estimated lifetime emissions of Boeing Commercial Airplanes and Boeing Defense Services product deliveries in 2022, including direct emissions from combustion of fuel (335M tonnes) and indirect emissions from production of fuel (50M tonnes).

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| | | 2022 | | 2021 | | 2020 | | | |
|---|-------------|------------|---|-------------|------------|---|-------------|------------|---|
| Water ¹ | Kilogallons | Megaliters | Total water withdrawal from water-stressed areas² | Kilogallons | Megaliters | Total water withdrawal from water-stressed areas² | Kilogallons | Megaliters | Total water withdrawal from water- stressed areas ² |
| OFF-SITE WATER SOURCES | | | | | | | | | |
| Surface water withdrawal | 687,256 | 2,601 | -% | 639,501 | 2,421 | -% | 639,167 | 2,420 | -% |
| Combination of surface water and groundwater withdrawal | 405,788 | 1,536 | 22% | 366,460 | 1,387 | 21% | 423,353 | 1,603 | 22% |
| Groundwater withdrawal | 110,671 | 419 | 31% | 89,855 | 340 | 30% | 83,596 | 316 | 31% |
| Reclaimed water (not withdrawn) | 2,585 | 10 | -% | 3,114 | 12 | -% | 2,778 | 11 | -% |
| Total water withdrawal | 1,203,715 | 4,556 | 10% | 1,095,816 | 4,148 | 10% | 1,148,894 | 4,350 | 10% |
| ON-SITE WATER SOURCES ³ | | | | | | | | | |
| On-site well water use | 2,243 | 8 | 100% | 4,755 | 18 | 100% | 2,352 | 9 | 100% |
| On-site water reclamation | 10,321 | 39 | -% | 9,576 | 36 | -% | 10,508 | 40 | -% |

Boeing does not use seawater.

- 1. Water data represents approximately 84% of operations by square footage.
- 2. Water-stressed areas are those with high or extremely high water stress in the World Resources Institute Aqueduct Model.
- 3. Two locations have on-site water sources Palmdale (well) and Portland (reclamation).

| | 2022 | 2021 | 2020 |
|--|-------------|-------------|-------------|
| Waste ¹ | Metric tons | Metric tons | Metric tons |
| Hazardous waste incinerated for energy recovery | 661 | 590 | 747 |
| Hazardous waste incinerated without energy recovery | 701 | 843 | 1,019 |
| Hazardous waste sent to landfill | 2,473 | 1,977 | 2,143 |
| Hazardous waste otherwise disposed | 3,435 | 2,651 | 1,744 |
| Percentage of hazardous waste recycled | 0.1% | 1.0% | 0.4% |
| Total hazardous waste generated ² | 7,276 | 6,122 | 5,674 |
| Nonhazardous waste incinerated for energy recovery | 155 | 286 | 147 |
| Nonhazardous waste incinerated without energy recovery | 81 | 365 | 76 |
| Nonhazardous waste sent to landfill | 151 | 149 | 343 |
| Nonhazardous waste otherwise disposed | 7,339 | 11,138 | 6,294 |
| Percentage of nonhazardous waste recycled | 0.5% | 0.4% | 1.2% |
| Total nonhazardous waste generated | 7,765 | 11,981 | 6,943 |

- 1. Waste data represents approximately 83% of operations by square footage.
- Hazardous waste is determined from U.S. EPA hazardous manifest or equivalent government shipping documents, with profile waste designations determining the type of waste and Management codes determining the disposal method.