Landscape Equipment Policy Follow-up

Environment & Sustainability Committee November 7, 2022

Carlos Evans, Director; Susan Alvarez, Assistant Director Office of Environmental Quality & Sustainability City of Dallas



Presentation Overview



- Background/ History
- EVC Recommendations
- Options for consideration
- Timeline moving forward





Background/History



- September 2021: Chair requested policy recommendations from staff concerning gas-powered landscape
- **December 1, 2021**: OEQS briefed the ENVS Committee on Landscape Equipment
- May 19, 2022: OEQS/Parks briefed the Park Board on Landscape Equipment
- June 8, 2022: Environmental Health Committee recommended phasing out gas-powered landscape equipment
- August 1, 2022: OEQS briefed ENVS Committee on landscaping equipment policy
- September 6, 2022: EVC provided formal recommendations to ENVS Committee



Environmental Commission Recommendations



Implement a phased, tiered implementation method:

- Conduct a market **survey** of landscape firms.
- Fully implement City-staff transition to electric equipment.
- Conduct **community engagement** prior to Council vote.
- 1st year implementation: large landscaping companies;
- 2nd year implementation: medium-sized landscaping companies; and
- 3rd year implementation: small businesses and residents.
- Establish an incentive fund for residents and small businesses
- Partner with a manufacturer and/or distributor to identify a match for any considered rebate.

Considerations in Implementation:



Budget for conversion/incentives
Market Study to identify scope
City contract for Landscaping Services

- Physical availability of equipment
 Physical availability of charging equipment
- Equity aspects of continued use and of transition
- Regional action related to Severe Nonattainment for air quality (2027)
- Ability to engage stakeholder firms



Case Study: Washington, DC:





- Leaf Blower Regulation Amendment Act of 2019 bans gas-powered landscape equipment.
- Began evaluation of legislation in 2017.
- <u>Leaf Blower Regulation Amendment Act</u> of 2018, effective February 22, 2019; enforcement began July 1, 2022.
- All new equipment for landscaping must be zero emission.
- City set aside \$290K/ year to transition to zero emission equipment, provide online platform, and enforcement staff.



Case Study: Montgomery County, MD

- Considering <u>bill</u> to ban selling, then using gas-powered landscape equipment including leaf blowers.
- Began evaluation of legislation in 2021
- Bill 18-22, requires the County to transition to no sales after 6 months following bill passing, and to ban use within a year afterword.
- All new equipment for landscaping must be zero emission by the target date.
- County budgeted \$1.5 million/year for 5 years to help transition to zero emission equipment.

\$50-\$200 Leaf Blower Rebates!

Choose from backpack or handheld models or one of each!

Backpack Model

LBX6000/BHX1001

(\$100 rebate)

APPLY HERE







(\$50 rebate)



Case Study: State of California

- "Small Off-road Equipment" (SORE) banned including, but not limited to leaf blowers.
- Began evaluation of legislation in 2018.
- <u>AB 1346</u>, required the state to adopt regulations around gas-powered tools by July 1, 2022, and ban sales by 2024.
- All new equipment for landscaping must be zero emission by the target date.
- California set aside \$30 million to help the transition to zero emission equipment.
- Local Air Control Boards charged with implementation.





Implementation Option 1: Transition by 2030





Implementation Option 2: Transition by 2027







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Timeline Moving Forward

- Oct.- December, 2022: Identify consultant from environmental services master agreement.
- January Aug. 2023: Develop the landscaping equipment transition plan.
- Work with appropriate departments to implement initial 20% equipment use.
- March, 2023: Seek initial public input into transition plan.
- Sept. 2023-Nov. 2023: Seek public comment.
- Dec. 2023: Seek formal Council adoption of plan.





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APPENDICES



Dallas Park & Recreation Pilot Results Emissions Savings of Green Strike Teams



Based on Operating Equivalent Gas-Powered Equipment

Туре	Model	Fuel Type	Units	Use	Annual Use (hrs)	HC Emissions (lb/yr)	NOX Emissions (lb/yr)	CO2 Emissions (T/yr)
Blower (Large)	BR600	4-Cycle Gas	1	3 hrs/day	540	37.91	27.82	9.61
Handheld blower (small)	BG86	4-Cycle Gas	1	3 hrs/day	540	10.67	7.83	2.71
Line trimmer	FS131	4-Cycle Gas	3	6 hrs/day	1080	113.73	83.47	28.84
Chainsaw	MS170	4-Cycle Gas	1	3 times per year for 6 hrs each use	18	0.67	0.49	0.17
Hedge trimmer	HL91K	4-Cycle Gas	1	4 times per year for 6 hrs each use	24	0.53	0.39	0.13
Pole Saw	HT103	4-Cycle Gas	1	3 times per year for 6 hrs each use in Fall	18	0.47	0.34	0.12
			Total A	nnual En	nissions	163.98 lbs	120.34 lbs	41.58 tons

Leaf Blower Environmental Justice Concerns





- Most landscapers using gas-powered lawn care equipment are subject to exposures to toxic gas & oil, carcinogenic emissions, noxious exhaust, and unsafe noise levels.
- Most lawn crews are unprotected and work fulltime at the source of emissions and noise. Workers have few options and little agency.
- Between 2002 and 2016, the number of professional ground maintenance workers, including supervisors, grew by 85 percent to 1.6 million, according to Quiet Communities.
- A large portion of landscape workers are Hispanic.
- In 2021 the average annual income for landscape workers was \$30,160 and the average hourly wage was \$14.50 an hour.
- Any movement towards reducing or eliminating gas-powered leaf blowers in Dallas will need to address equity considerations related to potential impacts to local landscape crews.

The Good: Types of Leaf Blowers



				Material			
	Primary Use			Moved	Operating	Weight	Cost Range
Type of Equipment	Comm'l	Resid'l	Windspeed	(CFM)**	Noise (dB)	Range (lbs)	(2021 \$)
*Gas-powered Hand-held	Х	Х	>180 MPH	400-450	73-100	9-12	~\$100 - 200
Backpack	X		~200 MPH	910-940	75-125	23-26	~\$300 - 550
- Battery Electric Handheld	X	Х	110-165 MPH	530-580	64	8-9	\$150 - 200
Backpack	X		145 MPH	600	64	13-20	\$400 - 1,200
//							

Data Sources: https://www.protoolreviews.com/gas-vs-battery-powered-leaf-blowers| https://www.popularmechanics.com/home/tools/g37442980/best-gas-leaf-blowers/

* Gas-powered data reflects more commonly used 2-stroke motor
 **CFM= Cubic Feet /Minute





Provided by California Air Resources Board, 2000