



## Replacement Scenarios & Costs

Kirkland City Council adopted Resolution R-5585 on April 18, 2023. This resolution authorizes the creation of the Electric Leaf Blower Initiative and outlines a three-year phased approach to sunset gas-powered hand-held and backpack leaf blowers in Kirkland. Estimated costs regard replacement of the City of Kirkland Parks and Public Works inventories.

### Replacement Scenarios for City of Kirkland

*These scenarios include the baseline replacement cost to replace aging gas-powered blowers with new gas-powered blowers (“Base”), to replace gas-powered blowers as they age out with electric blowers (“1”), and to replace all gas-powered blowers in 2024 with electric blowers (“2”).*

Scenario	Description	Total Cost (tool and battery)	Total Cost (tool and battery, plus 3 additional batteries)
Base	<b>Baseline Projected Gas TOTAL</b>	\$26,903	\$26,903
1	<b>Replace As Gas Age-Out TOTAL</b>	\$53,030	\$136,352
2	<b>Replace All Gas in 2024</b>	\$124,727	\$322,167

## Hourly Cost of Operation

*Annual cost of fuel and maintenance per hour of operation (if used 3 hours per day, 5 days per week).*

Tool Type	Description
Gas Blower	\$1.74/hour
Electric Backpack Blower	\$0.10/hour
Electric Handheld Blower	\$0.07/hour

## Time Required to Capture Higher Upfront Costs

*Higher initial investment cost can be offset by lower fuel (electricity) costs.*

Tool Type	Low End Estimate	High End Estimate
Electric Backpack Blower	12.4 Months	24.0 Months
Electric Handheld Blower	1.8 Months	5.2 Months

