

LEE Committee – 5 July 2022

Agenda Item LEE1715/22

Purchase of Electric Grounds Maintenance Equipment

Introduction

This paper proposes replacing several of our current groundwork tools with electric powered versions.

Discussion

As Members will be aware, Philippa & I have in the last few months been trialling a series of electric powered tools. To date we have tested equipment from Ego, Husqvarna, Makita, Milwaukee & Pellenc. All have their own unique capabilities and selling points. However, we have been most impressed by the battery run time, the weight, cost, and capability of the Husqvarna kit. From our tests, which included an entire cut of The Green, we have found that the Husqvarna tools perform on par and in some aspects better than the fossil fuel alternative.

As you can see on the attached recommended quote (Appendix 1), we are looking to purchase the following:

1. Husqvarna BLi 950X 31.1Ah Battery Backpack - (Inc Harness)
(<https://www.husqvarna.com/uk/battery-equipment/bli950x/>)
 - a. Larger battery pack which allows for more continuous use of equipment.
2. 2 x Husqvarna BLi300 9.4 Ah Batteries (<https://www.husqvarna.com/uk/battery-equipment/battery-bli300/>)
3. 2 x Husqvarna QC 500 (500w) Battery Chargers (https://www.husqvarna.com/uk/battery-equipment/charger-qc500-mp_125561488/)
4. Husqvarna 525iB MARK II Hand Held Blower (<https://www.husqvarna.com/uk/leaf-blowers/525ib/>)
5. Husqvarna 550iBTX Backpack Leaf Blower (<https://www.husqvarna.com/uk/leaf-blowers/550ibt/>)
6. Husqvarna 535iRXT – Battery Trimmer/Brush Cutter
(<https://www.husqvarna.com/uk/brushcutters/535irxt/>)
7. Husqvarna 520iHD70 - Battery Hedge Trimmer - Hand Held
(<https://www.husqvarna.com/uk/hedge-trimmers/520ihd70/>)

The total purchase price of the equipment is £4311.18 (incl. VAT). Croxley Green Parish Council can reclaim £718.53 back in VAT charges.

At a previous meeting of the committee, Members requested further information on the day to day running costs of the machinery in comparison to petrol powered versions. Please see the table provided in Appendix 2 which outlines the fuel cost savings of moving to electric tools.

In addition to the fuel cost savings, other benefits of electronic tools are:

- Reduction in Hand Arm Vibrations (HAVs)
 - <https://www.hse.gov.uk/vibration/hav/index.htm>
- Reduction in pollution from petrol fumes and noise levels
 - Better for machine operators, residents close to machines & the environment
- Lighter equipment
- Consistent balanced machine weight
 - There are no changes to machine weight as fuel is used

Overall, I believe these tools would be a great asset to the council. They promote a greener future for the Council and Croxley Green going forward. They are cheaper to run, require less maintenance and are very quiet in comparison. One of the Councils goals is to protect and improve our environment and this would go some way in helping to meet that aspiration.

The Council currently has £50,903.75 in an earmarked reserve for equipment replacement and funding for the purchase will be taken from there.

Recommendation

- That the committee accepts the attached quote from RT Machinery at a total cost of £4311.18

Anthony Bassenger

Senior Ranger

June 2022

APPENDIX 1

Quotation

Ref No: 13368 (v1)

Husqvarna battery equipment

**CUSTOMER**

Croxley Green Parish Council
Community Way
Croxley Green
Rickmansworth
WD3 3SU

PREPARED BY

RT Machinery Ltd
Greenways, Brackwell Farm Estate,
Winchendon Road,
Nether Winchendon,
Aylesbury, Bucks,
HP18 0DS

CONTACT DETAILS

T: 01844 299037
E: sales@rtmachinery.co.uk
W: www.rtmachinery.co.uk

ITEM	DESCRIPTION	QTY	UNIT COST	DISCOUNTED	NET TOTAL
HUW967093201	Husqvarna BLI 950X 31.1Ah Battery Backpack - (Inc Harness) BLI 950X 31.1Ah (Inc Harness) Battery Backpack	1.0	1082.50	920.125 (15.0%)	920.13
HUW967071901	HUSQVARNA BLI300 9.4 Ah BLI300 9.4 Ah - Battery Integrated	2.0	274.17	233.0445 (15.0%)	466.09
HUW970449502	HUSQVARNA QC 500 (500w) QC 500 (500w) Battery charger	2.0	124.99	106.2415 (15.0%)	212.48
HUW967915503	HUSQVARNA 525IB MARK II 525IB - Battery Blower - Hand Held MARK II	1.0	332.50	282.625 (15.0%)	282.63
HUW967681102	HUSQVARNA 550IBTX 550IBTX Battery - Blower Back Pack	1.0	499.17	424.2945 (15.0%)	424.29
HUW967850607	Husqvarna 535IRXT - Battery Trimmer/Brush Cutt. 535IRXT - Battery - Trimmer/Brush Cutter - Hand Held	2.0	540.83	459.7055 (15.0%)	919.41
HUW967915702	HUSQVARNA 520IHD70 520IHD70 - Battery Hedge Trimmer - Hand Held - 70cm	1.0	432.50	367.625 (15.0%)	367.63
DISCOUNT TOTAL					5933.99
NET TOTAL (ex VAT)					£3,592.65
VAT COST					£78.53
TOTAL (inc VAT)					£4,311.18

NOTES

- Lead time 4-6 weeks
- 24 month warranty from date of delivery
- Prices include build, PDI, run up, test and delivery of equipment















































































































QUOTE DATE
24 Jun, 2022

VALID UNTIL
24 Jul, 2022

PREPARED BY
Scott Reynolds

1 of 2

APPENDIX 2

COST OF OWNERSHIP - FUEL SAVING MATRIX 2022											
HUSQVARNA BLI BATTERY **											
COST PER CHARGE **											
COST PER CHARGE incl. battery cost - based on 1500 charges											
FUEL SAVING incl. battery cost - based on 1500 charges ***											
EQUIVALENT PETROL PERFORMANCE ****											
	BLI100	BLI200 / X	BLI300	BLI550X	BLI950X	BLI100	BLI200 / X	BLI300	BLI550X	BLI950X	
											
Pruning Chainsaw	£5	£5	£5	£5	£5	£5	£5	£5	£5	£5	
			UNLEADED 2T					ALKYLATE FUEL			
											
Chainsaw	£505	£1,206	£2,260	£3,631	£7,699	£1,229	£2,655	£4,796	£7,978	£16,393	
											
Hedge trimmer	£520	£1,237	£2,314	£3,723	£7,884	£1,259	£2,715	£4,901	£8,157	£16,752	
											
Pole hedge trimmer	£363	£922	£1,921	£2,779	£6,467	£954	£2,105	£4,138	£6,326	£14,005	
											
Trimmer	£427	£705	£1,990	£2,126	£5,731	£1,080	£1,683	£4,272	£5,060	£12,577	
											
Brush cutter	£389	£1,237	£2,314	£4,526	£7,490	£1,005	£1,683	£4,901	£7,776	£15,989	
											
Blower	£703	£1,540	£2,468	£5,026	£11,105	£2,130	£4,264	£6,578	£13,883		
											
Backpack blower	£441	£1,010	£1,976	£2,981	£6,362	£1,105	£2,130	£4,264	£6,578	£13,883	
											
Polesaw	£441	£1,010	£1,976	£2,981	£6,362	£1,105	£2,130	£4,264	£6,578	£13,883	
											
Pedestrian mower	£441	£1,010	£1,976	£2,981	£6,362	£1,105	£2,130	£4,264	£6,578	£13,883	

** Calculation based on current published specification data of tested products when used in conjunction with BLI battery.
 *** Cost to recharge based on average UK electricity rate (16p/kWh) - Calculated using CENEX quick charge (18watts current 0.95 kWh) and charge duration of the tested BLI battery (mins).
 **** Fuel saving - Battery run time based on working time (hours) (see Catalogue 2022 page 12/13). Petrol equivalent calculation based on run per useful period to allow equal comparison. Run time (mins) multiplied by 2000 (to convert to per total litre) to get total litres. 2000 charge based on battery manufacturer's warranty period - for calculation purposes, 1 charge / full is from empty to 200% full. Fuel saving (l/h) / £ is calculated against current unleaded fuel price based on Husqvarna UK or 2T Power 2 price. NOTE: Calculation only covers fuel / electricity costs - battery cost considered and does not include the price of the product, charger or any accessories parts (spare parts, filters, etc.). All figures are based on estimation.
 ***** Equivalent performance is based on power output / torque and application performance of battery powered and representative equivalent petrol or equivalent.