



NaturaVolt

Rolling Out The Future

APSE Greenspace Forum

Electric Weed Control for Municipal Excellence

Equipment Sales and Distribution

e//weeding[®]
/ Roller

Contracted weed control (electric):

- Hard surfaces
- Invasive species
- SSSI weeding
- Sports grounds

Advisory:

- Chemical Free weeding transition plans
- Surveys
- Invasive species management plans
- Sustainability Audits



The Challenge

Beyond the Sprayer: Navigating
a Post-Glyphosate Era



Regulation & Public Pressure

Environmental Mandates

Legal restrictions on chemical usage in public domains are tightening across the UK and Europe. Compliance is no longer optional; it's a critical operational hurdle.

Resident Expectations

Public demand for "pesticide-free" parks and playgrounds has reached a tipping point. Authorities must provide visible, toxin-free maintenance solutions.



The Science

How Electric Weed Control Works

Confidential – NaturaVolt – 2026



Closing the circuit

Power Source

A high-voltage generator delivers the potential required to overcome plant resistance.

The Circuit

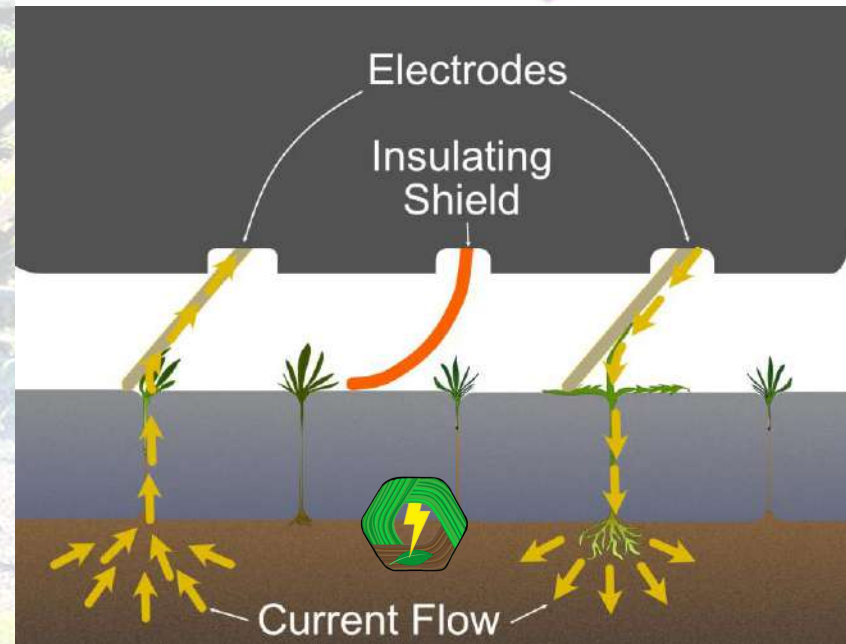
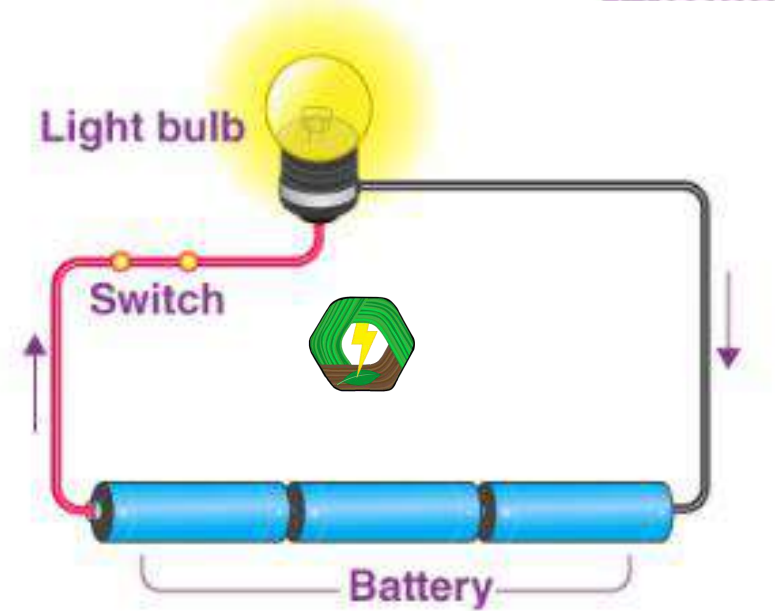
Current flows through the vascular system, effectively using the weed as the "load."

The Electrodes

Custom contact applicators (the "positive") drive current into the leaf foliage.

Thermal Transfer

Enough energy is transferred to instantly convert moisture to steam, boiling the entire plant.



Systemic Vascular Destruction

Boiling the Roots

Naturavolt's high-voltage technology turns the plant's own resistance into heat. This energy ruptures the **Xylem and Phloem**, the plant's transport system.

Unlike steam, hot water or burners, which only singes the leaves, electricity follows the biological path all the way to the root tip, ensuring a systemic kill.



Featured Technology

The eWeeding Roller



Urban Efficiency

Precision Scaled

Designed for kilometers of curb-lines and urban hardstanding. The e-Weeding Roller combines high work rates with silent, zero-emission operation.

- ✓ 60cm Working Width
- ✓ Precise Side-Shift Capability
- ✓ 3-4 hours from a single charge of the batteries
- ✓ Easy to transport and store



Side shift for curbs



Transport mode



Integrated Approach to Weed Management



Electric Kill

Systemic destruction of the biological weed core without residue.



Detritus Removal

Clearing organic debris to prevent the formation of new seed beds.



Biodiversity

Protecting soil health and local fauna through chemical elimination.



The Impact

What can you expect?



Accelerating UN sustainability goals



No Biodiversity Impact

Nontarget organism		Results
Micro-organisms	Bacteria	No impact
	Fungi	No impact
Worms	Worms	Impact in application area for period of max 4 weeks. No long-term effect
Insects	Beetles	No impact
	Woodlice	No impact
	Crickets	No impact

Research by Bayer Cropscience in Monheim (2019-2022)



Operational Impact & Longevity

Treatment Longevity (Average Days between intervention):



*Longevity data assumes integration with periodic detritus removal.



Efficacy – 1st Impression



Before



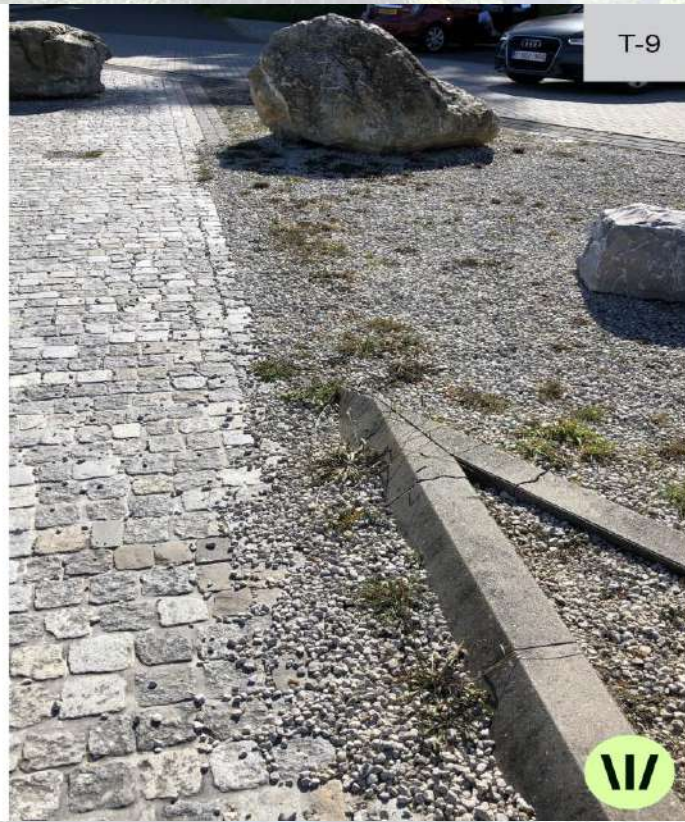
1st effects
blackening



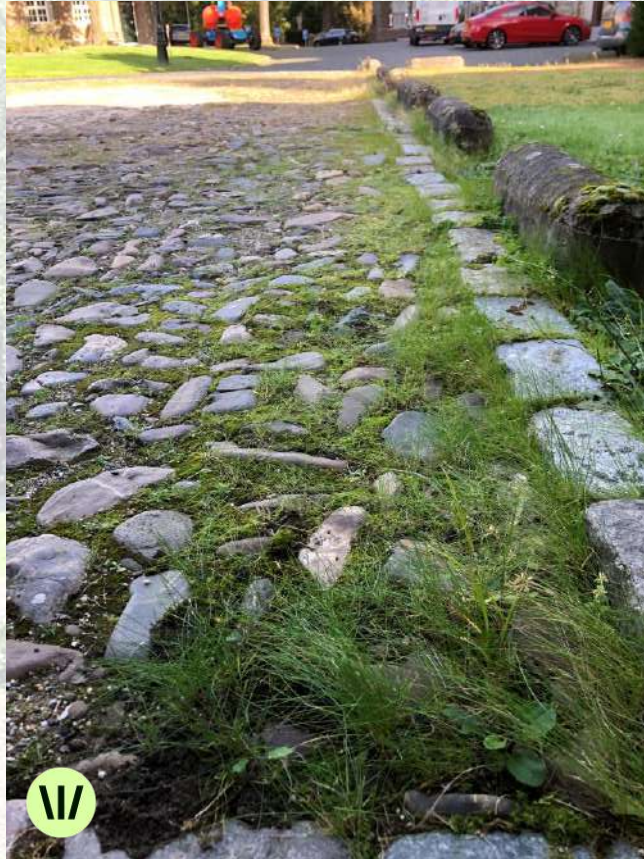
Results on Pavements



Results on Gravel



Results on Cobblestones



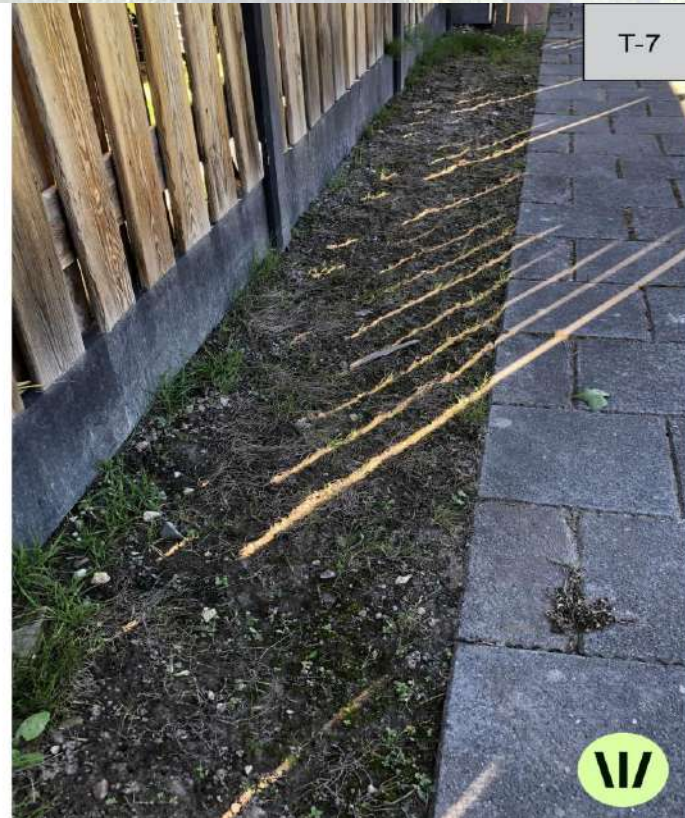
Before



25 days later



Results on Equisetum (Horsetail)



Field Study 2023 Residential Area



Field Study 2023 Residential Area



Field Study 2023

Started August 18th (Yellow) => 1 full day

2nd treatment October 3rd (red) => 0,5 day

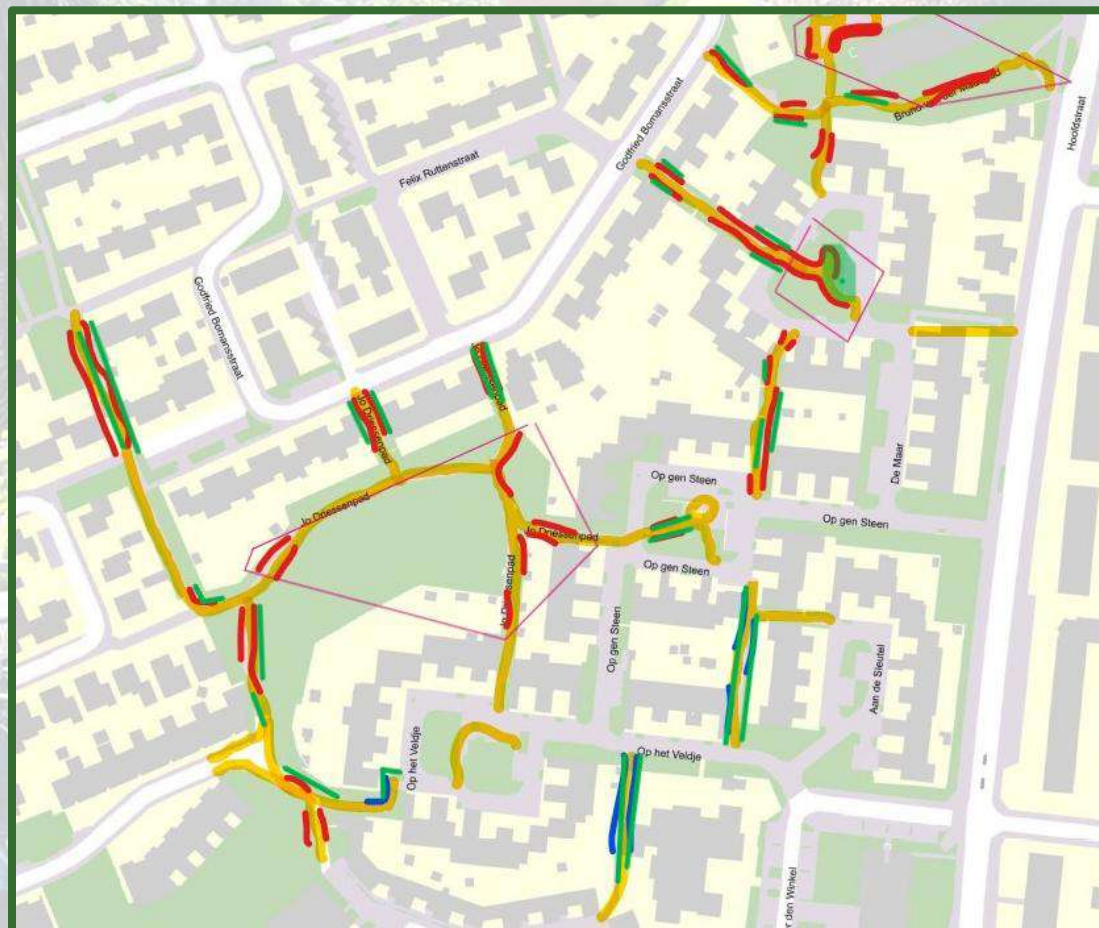
3rd treatment November 10th (green) => 2 hours

Feedback

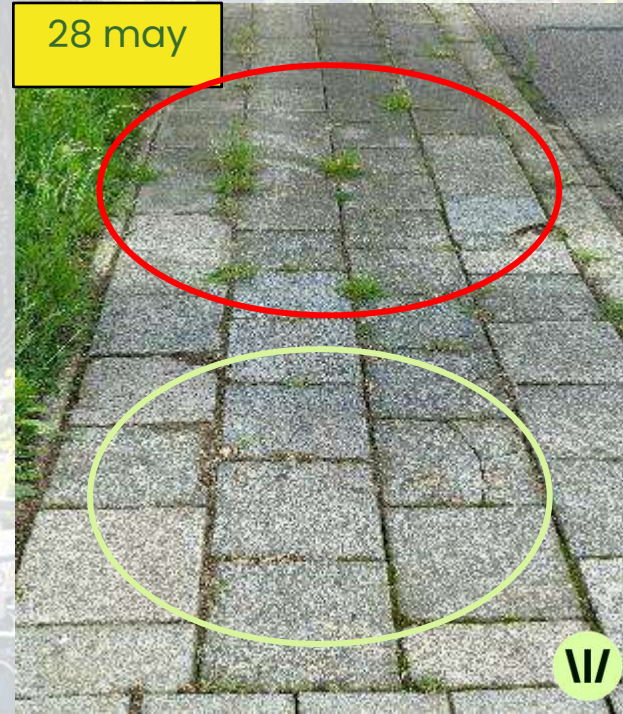
Every 4 weeks treatment of weeds by burners

50%-75% time saving

No use of fossil fuel (gas)



Year-Round Control



Started March 21st, 2024 with full coverage treatment
Continued during summer with spot application
End result: A structural improvement of the visual quality of the pavement





THE NATIONAL TRUST Polesden Lacey



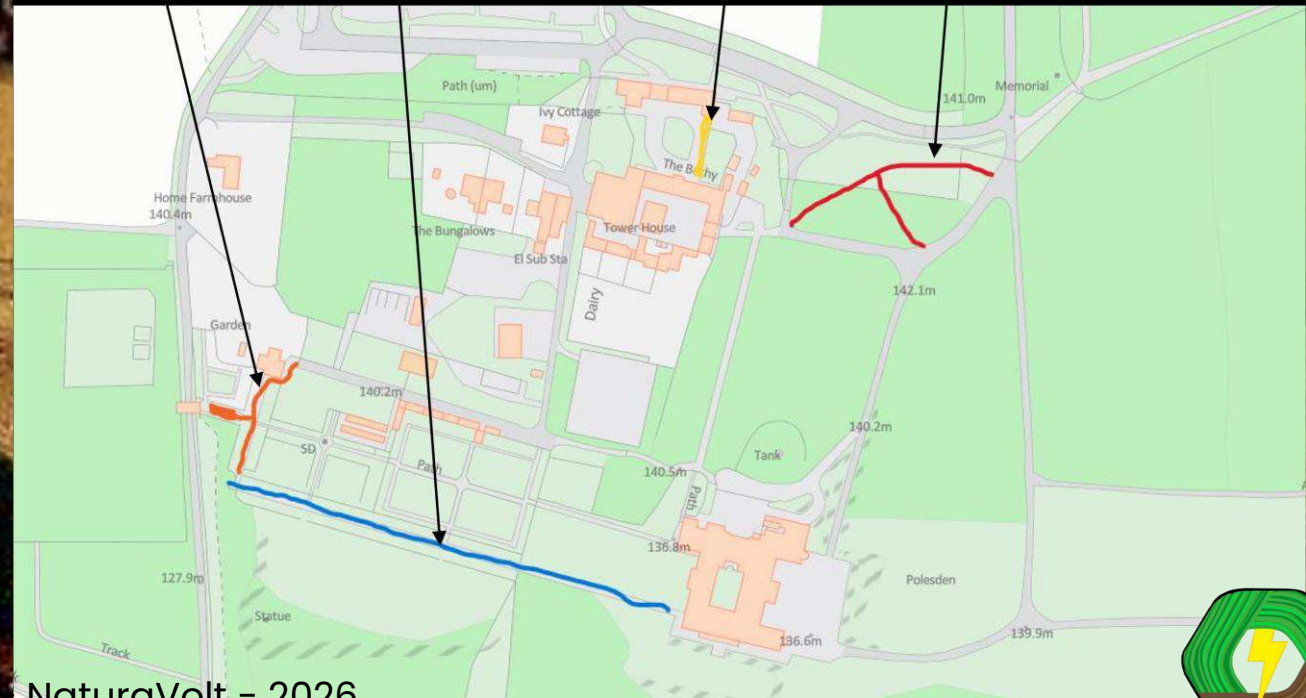
NaturaVolt

Electric Weeding Specialists

1.. Spring Borders 2. Herbaceous borders 3. Dairy Courtyard 4. Blossom Lawn

Four different areas were identified for electric weeding on the site:

1. Spring Borders and Winter Garden
2. Herbaceous Borders
3. Dairy Courtyard
4. Blossom Lawn



NaturaVolt - 2026



1. Spring Borders and Winter Garden



Before



30 Days After

Confidential – NaturaVolt – 2026



1. Spring Borders and Winter Garden - 2



Before



30 Days After



2. Herbaceous Borders



Before



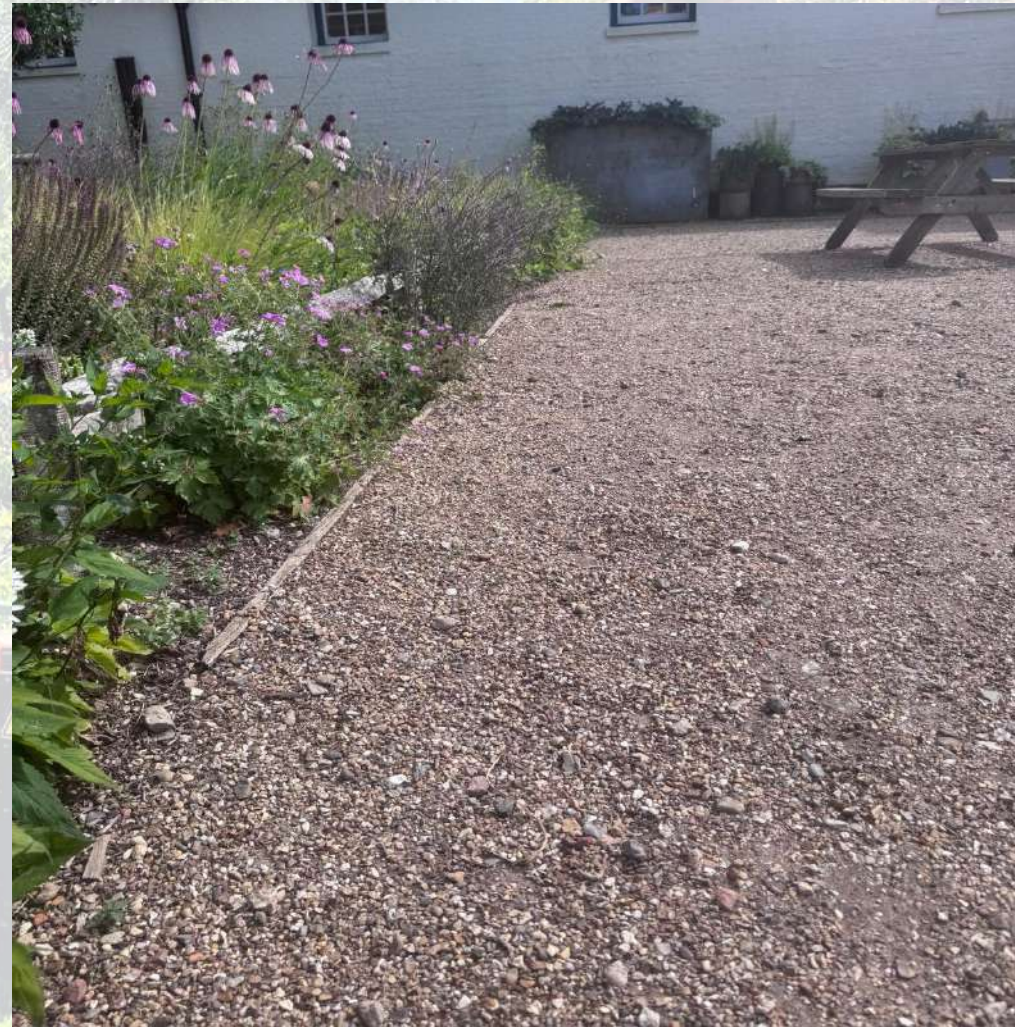
30 Days After



3. Dairy Courtyard



Before

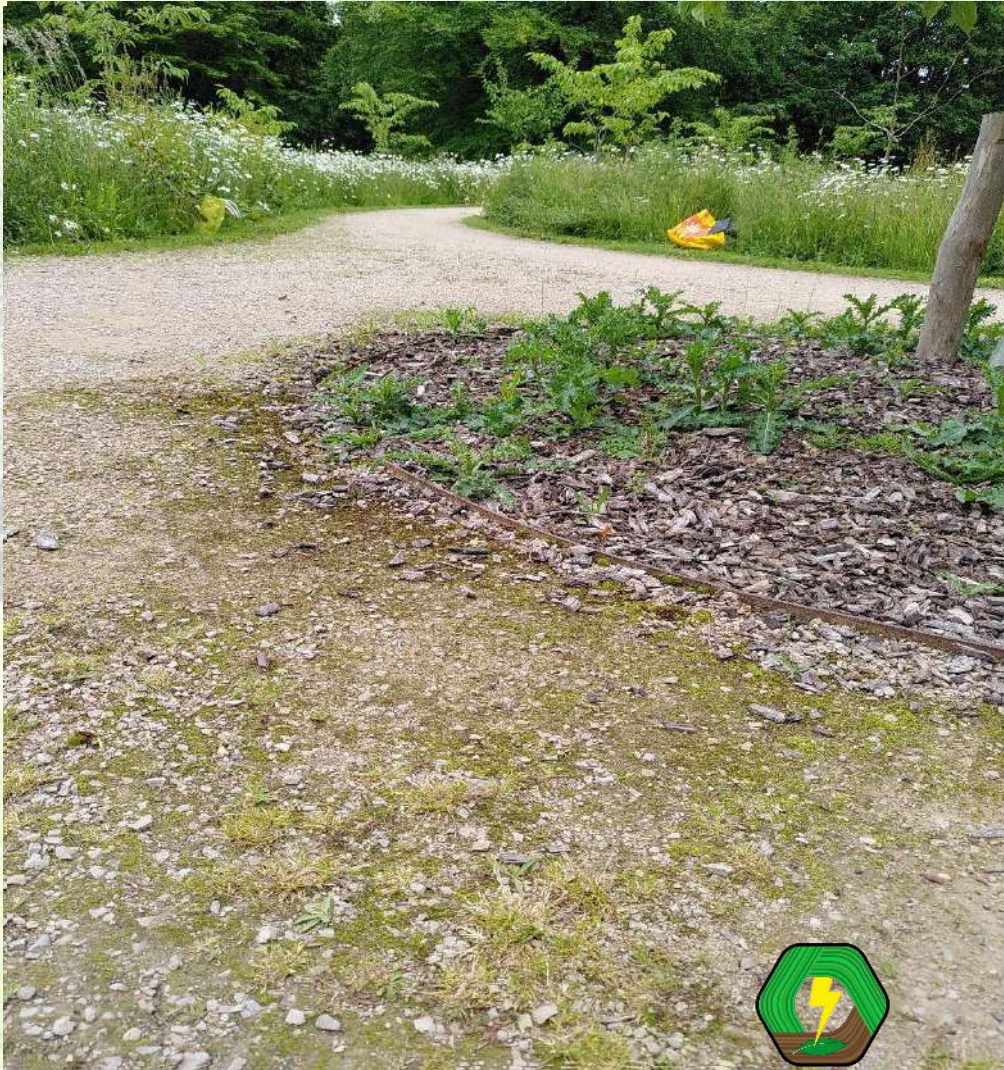


30 Days After

Confidential – NaturaVolt – 2026



4. Blossom Lawn



Before



30 Days After



Market Adoption & Proof

40+
Councils (Netherlands & Belgium)



Swinley Forest Golf Club

10+

UK Organisations Since Early 2025

A proven European standard now revolutionizing UK municipal maintenance.





NaturaVolt

Electric Weeding Specialists

Questions?

Let's Rewire Weed Control

Join the Non-Chemical Revolution

naturavolt.com | info@naturavolt.com

Confidential – NaturaVolt – 2026

