GEO Certified® Report
Dun Laoghaire Golf Club

Prepared by independent verifier Maurice J Bergin M.Sc

Certified by GEO Foundation: 2026
Recertification due: 2029

GEO Foundation
Sustainability in and through golf

“Dún Laoghaire Golf Club enjoys a magnificent setting, with sweeping views across the Wicklow Mountains and extensive natural habitats. It is a superbly managed and maintained parkland course, capable of hosting national and international events. What particularly impresses me is the club’s long-term commitment to sustainability: its thorough approach to decarbonisation, extensive use of robotic mowing, and ambitious plans to reduce emissions while protecting and enhancing biodiversity.”

Maurice J Bergin M.Sc
(GEO accredited independent verifier)

Introduction

GEO Foundation is pleased to confirm that Dun Laoghaire Golf Club has successfully achieved GEO Certified® status for its outstanding work to foster nature, conserve resources and support the community.

GEO Certified® is the most respected certification for golf, based on a credibly and transparently developed modern sustainability Standard of best practice.

Dun Laoghaire Golf Club has:

1. Met the required certification criteria for sustainable golf operations
2. Successfully completed the official third-party verification process
3. Successfully passed the final evaluation by GEO Certification Ltd. (autonomous subsidiary of GEO Foundation)

GEO agreed with the conclusions of the official verification report, that, having achieved all mandatory criteria; and with specific Continual Improvement Points (CIP) set for the future and Critical CIP's (CCIPs) to be reviewed at recertification, Dun Laoghaire Golf Club should be awarded GEO Certified® status.

For the certification period stated above, Dun Laoghaire Golf Club can therefore claim a position as a leader in advancing sustainability in golf – making important contributions in protecting nature, conserving resources and strengthening communities.

The GEO Certified® Report that follows comments on the actions undertaken against the criteria, as observed by the independent verifier during the assurance process.

Certification is nearly always the result of a dedicated team effort resulting in many practical and valuable social and environmental results around the golf course, maintenance facility and clubhouse. These dedication and leadership qualities are an important part of ensuring the resilience of the golf facility and the golf industry into the future and also as part of society's wider effort to pull together for people and planet.

We congratulate all involved.

Jonathan Smith
Founder and Executive Director, GEO Foundation
GEO Certification Ltd. Board Member

Kelli Jerome
Executive Director, GEO Foundation

Carole Kerrey
Director, Certification and Credibility,
GEO Certification Ltd.

Verification and Certification

Verification

The official third-party audit was carried out by an independent verifier, accredited by GEO to undertake verifications of golf facilities applying for certification.

Verification involves reviewing practices and data, using the International Voluntary Standard for Sustainable Golf Operations as the guide to ensure comprehensive and consistent evaluation of performance. A detailed verification report is submitted for evaluation by GEO Certification Ltd, a subsidiary of GEO Foundation.

Certification

GEO Certification Ltd, an autonomous subsidiary of GEO Foundation [both not-for-profit entities], undertook a full review of all content submitted through the OnCourse® online platform and the report submitted by the verifier, ensuring:

- Comprehensiveness – activities undertaken touched on all elements of the Standard
- Consistency – that the verification approach was balanced, well weighted and with consistent depth of evaluation across each theme
- Accuracy - matching the verification report with evidence submitted by the golf facility to ensure statements and claims were accurate

GEO Foundation is an international not-for-profit founded to advocate, support and reward sustainability in and through golf. Over more than ten years, the group has worked collaboratively with dozens of golf industry associations and government and non-government organisations around the world, to help golf become a sustainability leader, striving for a net positive social and environmental impact. In addition to managing and assuring GEO Certified®, GEO Foundation also provides a suite of credible, practical programmes for golf facility management, new golf developments and golf tournaments called OnCourse®, often delivered in partnership with national golf bodies. Find out more at **www.sustainable.golf**

Credibility

GEO Certified® is part of the ISEAL Alliance, a group of the world's foremost credible certification systems including Fairtrade, Rainforest Alliance, Forest Stewardship Council, Marine Stewardship Council and many others. GEO Foundation earned and retains full membership of the ISEAL Alliance global association following a rigorous evaluation against the ISEAL Codes of Credibility in Sustainability Standards and Certification. The ISEAL Codes cover standard-setting, assurance, and monitoring and evaluation. Find out more at **www.isealalliance.org**

Verifier's Report

The Sustainability Agenda for golf covers the following themes and action areas:

THEMES	ACTION AREAS
Nature	• Habitats & Biodiversity • Turfgrass management • Pollution prevention
Resources	• Water • Energy • Materials
Community	• Partnerships & Outreach • Golfing & Employment • Advocacy & Communications

Included below are the observations made by the Independent Verifier against each item in the Standard.

NATURE

N1 Habitats and Biodiversity

Objectives	Requirements	Mandatory Practices	Verifier Notes
N1.1 Understand the site and surroundings	**N1.1.1 Sound understanding of the nature and landscape value of the site**	General knowledge of the wildlife and habitats on the site	Excellent knowledge. Large naturalised areas and habitat corridors are integrated into course management. Rougher areas are being retained for biodiversity; an external biodiversity report has been commissioned.
	N1.1.2 Knowledge of legal designations for protected areas, habitats and species	Identify rare, protected or endangered species found on the golf course; Understand legal responsibilities for landscape protection and special area designations, if applicable	Excellent knowledge. **CCIP**: **Please formalise the Alan Lauder biodiversity work as a living action plan, including habitat/species objective, named owner, deadline, monitoring method and annual review.**
	N1.1.3 Sound understanding and respect for cultural heritage	Protect any archaeological, historical or cultural designations on the site, if applicable	Not Applicable.
N1.2 Opportunities to naturalise the golf course	**N1.2.1 Measures taken to identify and minimise the required area of managed turfgrass**	Monitor patterns of play to identify underutilised areas of turfgrass	Ongoing project. Extensive natural habitat areas around and throughout the course.
N1.3 Actively create and manage habitats for wildlife	**N1.3.1 Projects to create and manage habitats in the best way for wildlife and golf**	Prioritise native species of varying size and structure when planting Prioritise native trees and shrubs when planting Prioritise native aquatic species of varying size and structure when planting Establish mowing buffer zones next to water bodies and wetlands	**CCIP**: **Please record the native woodland mitigation associated with the proposed padel development, including the approximately one-acre area, species mix, establishment plan and aftercare.** **CIP**: **Please establish and maintain an evidence file of habitat maps, photographs, tree-planting records, monitoring results and member communications.**

N1.4 Conserve key species	**N1.4.1 Practical conservation measures for priority species**	Follow local best practice to protect or attract endangered, protected or rare species found on site	As above re plan. Buffer zones in place.
N2 Turfgrass			
N2.1 Maintain optimum turfgrass and soil health	**N2.1.1 Appropriate turfgrass varieties adapted to climatic and other geomorphological factors**	Select appropriate grass species for the climate	Detailed programme in place.
	N2.1.2 Practices to maintain good soil structure and condition	No specific international requirement, however, identify course management and agronomic activities and look for continual improvements	Detailed programme in place.
	N2.1.3 Careful and responsible fertiliser application throughout the year to avoid over-fertilisation	Test and monitor soil pH; Follow legal requirements when timing fertiliser applications Ensure staff are fully qualified to use fertilisers Ensure staff use appropriate protective equipment Regularly calibrate and test applicators	Complete controls and recording in place.
N2.2 Prioritise mechanical maintenance	**N2.2.1 Non-chemical pest, disease and weed management**	Sharpen mowing blades; Remove surface moisture; Change hole locations frequently	Club has a full programme in place.
N2.3 Use chemicals responsibly	**N2.3.1 Application of chemicals only when necessary to prevent or cure defined / identified turf health issues**	Identify and track pest and disease hotspots, including sensitive areas Scout the course daily for early signs and symptoms Accurately diagnose to determine the cause of weeds, pests and diseases	Targeted/spot treatment, minimal insecticide use and avoidance of pesticide application near habitat areas.

	N2.3.2 Application of chemicals with full safety precautions	Use legally registered and approved products; Prefer products for the specific weed, pest or disease; Follow legal requirements; Ensure staff are fully qualified to use pesticides; Ensure staff use appropriate protective equipment; Regularly calibrate and test applicators; Dilute and dispose of leftover product on untreated areas of amenity turfgrass	Application records and certified spraying equipment support responsible practice. Practice is the minimal use of chemicals.
N3 Pollution Prevention			
N3.1 Prevent pollution across the entire site	**N3.1.1 Practical measures to ensure pollution risks are minimised from golf course operations**	Document procedures for emergency spill responses ; Retain no-spray/no-spread buffer areas next to water bodies and wetlands; Retain no-spray/no-spread buffer zones in and around ecologically sensitive areas	Emergency Spill plan in place. Has a full programme to prevent pollution and operates buffer zones.
	N3.1.2 Practical measures to ensure pollution risks are minimised from clubhouse operations	Formal wastewater discharge agreement, if applicable	Club is compliant with local authority regulations.
	N3.1.3 Practical measures to ensure pollution risks are minimised from maintenance facility operations	Wash machinery over an impermeable, leak-free surface; Mix and load pesticides and fertilisers over an impermeable, leak-free surface; Triple rinse pesticide containers and applicators	A first-class modern facility area ensures pollution risks are minimised.

N3.2 Safely manage hazardous substances	**N3.2.1 Legal compliance in the storage, handling, application and safe disposal of all hazardous substances**	List of hazardous substances, made available to authorised staff; Product and material data safety sheets; Well ventilated concrete or metal building; Impermeable, leak-free flooring; Sufficient storage capacity; Spill containment kits; Secondary containment e.g., bunds or drip trays; Emergency wash area, as per local requirements (body shower and / or eye wash station); Hazardous substances safely collected by a registered company or body ; Follow any additional legal requirements	Full compliance and excellent facilities. Emergency risk plans in place. Excellent eye wash station in place.
	N3.2.2 Legal compliance in the storage and handling of fuels and gases	Tank secured to a horizontal, flat, non-combustible surface; Secondary containment of fuel in the event of spills e.g. bunds and drip trays; Inspection of storage tank(s) at least quarterly, if required; Fire extinguisher in the immediate area	Excellent practices in place with modern storage facilities.
N3.3 Responsibly manage waste / storm water	**N3.3.1 Appropriate wastewater usage, treatment and discharge**	Impermeable, leak-free surface; Treatment as per local requirements (oil, grease and / or clipping separation; Formal discharge agreement, if applicable	Excellent practices in place with modern facilities and wastewater separation of oils, etc.

RESOURCES

R1 Water

Objectives	Requirements	Mandatory Practices	Verifier Notes
R1.1 Minimise water demand	**R1.1.1 Measures to reduce the need to consume water**	Select appropriate grass species for the climate e.g., drought and disease tolerance; Target irrigation to essential playing surfaces; Prioritise native, drought tolerant species for landscaping and planting	The course has a major irrigation system in place and major demands for irrigation. This is managed electronically and through sets of lakes with reuse via pumping stations. Turfgrass is selected as the most appropriate for the playing and climatic conditions.
R1.2 Maximise water efficiency	**R1.2.1 Practical measures to use water more efficiently on the golf course**	Schedule irrigation based on informed assessment of soil moisture and weather forecasts; Evaluate new irrigation technologies e.g., central control, precision sprinklers etc.; Provide staff training on efficient irrigation practices; Adjust sprinklers to playing surfaces only	Full course irrigation system – managed daily by course staff.
	R1.2.2 Practical measures to use water more efficiently in buildings	Monitor and record water consumption (bills, flow meter etc.); Encourage water conservation practices amongst players and staff	**CCIP: Please correct the OnCourse water entry: the reported 30,000 m³ appears to relate to borehole abstraction rather than total irrigation use.** **CCIP: Please document total irrigation demand using controller runtimes and/or a calibrated bulk meter at the pump house. The reported drought peak of approximately 900 m³ per night demonstrates why complete annual data matters.**

			CIP: Please formalise the drought hierarchy - prioritising greens and tees and reducing fairway watering - as a written drought-response procedure.
R1.3 Source water responsibly	**R1.3.1 Measures towards alternative, lower quality sources of water**	Water abstraction permit, if required; Report water consumption to environment agency, if required	Compliant with water abstraction.
R2 Energy			
R2.1 Reduce energy demand	**R2.1.1 Measures to reduce the amount of energy consumed in golf course maintenance**	Naturalise non-playing areas to reduce mowing and other energy intensive inputs	Course has extensive non-playing areas.
R2.2 Maximise energy efficiency	**R2.2.1 Measures to use energy and fuels more efficiently in buildings**	Monitor and record energy consumption (bills, meters etc.)	Club is very aware of energy consumption data and is planning additional extensive renewable energy systems.
R2.3 Source energy responsibly	**R2.3.1 Measures to source alternative, renewable forms of energy**	Understand the energy mix of your electricity supplier; Explore possible greener energy providers	Solar PV on site already in place with additional installation planned along with batteries and potentially a biomass solution.
R3 Materials			
R3.1 Reduce materials demand	**R3.1.1 Products and materials selection based on necessity, including opportunities for recycled, reused and locally sourced alternatives**	No specific international requirement, however, identify activities to reduce the demand for materials and look for continual improvements	See note below.
R3.2 Purchase responsibly	**R3.2.1 Commit to sustainable purchasing practices**	Favour responsible, lower impact products	**CIP**: Please audit purchases for their sustainability and set a target to improve annually with a strong focus on food and Pro Shop items.
R3.3 Reuse and recycle	**R3.3.1 Waste stream separation for maximum recycling and re-use opportunity**	Put in place a recycling separation system, according to local rules and availability; Clear, simple and visible bin signage;	In place.

		Monitor and record weight of waste for each stream e.g. invoices, bills etc.	
R3.4 Demonstrate legal compliance	**R3.4.1 Compliance with all local and regional waste management regulations**	Authorised waste collector for general, hazardous, industrial and green waste, if required	In place.

COMMUNITY

C1 Health & Wellbeing

Objectives	Requirements	Mandatory Practices	Verifier Notes
C1.1 Improve health and wellbeing	**C1.1.1 Benefits to human physical and mental health from golf and facility activities**	Plans in place to respond to incidents and emergencies	Risk assessment complete and reviewed annually.
C1.2 Be open and inclusive	**C1.2.1 Inclusivity and diversity in membership and visitor policies**	Membership policies free from discrimination across age, gender, sexual orientation, religion, and ethnic background	In place.
C1.3 Employ fairly, safely and provide career opportunities	**C1.3.1 Ethical and legal employment, working conditions and professional development**	Adopt an equal opportunity recruitment and hiring policy; Follow all relevant legislation and best practice for hiring and employment; Follow all relevant legislation and best practice for worker safety	In place.

C2 Outreach & Inclusion

C2.1 Diversify access and provide multifunctionality	**C2.1.1 Social and recreational activities at the facility**	No specific international requirement, however, identify multifunctional activities and look for continual improvements	Club has many additional activities including Bowls, Bridge, Pavilion membership for locals, driving range open to all, etc.
C2.2 Provide for volunteering and charity	**C2.2.1 Opportunities available for volunteering and support of charities and good causes**	No specific international requirement, however, identify activities to support volunteering and charity and look for continual improvements	The volunteers operate a Special Olympics club in the Club throughout the golfing season.
C2.3 Establish active community partnerships	**C2.3.1 Positive and constructive engagement with neighbours, the local community and other groups**	No specific international requirement, however, identify partnerships and community activities and look for continual improvements	Supports the National Rehabilitation activities and has strong community engagement.
C3 Communications & Advocacy			
C3.1 Engage staff and golfers	**C3.1.1 Communications activities that raise awareness and understanding amongst members and visitors**	Involve staff and committees in sustainability efforts; Involve golfers in sustainability efforts; Post sustainability information in the clubhouse and / or on the golf course	Club is quite good here. **CIP**: **Please improve member communication. Consider refreshing the fauna and flora signage on the course.**
C3.2 Celebrate and promote sustainability	**C3.2.1 Activities that raise awareness and engage people in the wider community**	Share at least 3 Highlights on sustainable.golf	Confirmed.
C3.3 Follow a journey of continuous improvement	**C3.3.1 Measures to help track, review and improve sustainability and climate action**	Put measures in place to ensure that OnCourse can be updated annually	**CIP**: **Please ensure that at least annually the OnCourse documents are reviewed and updated, and that all consumption data is recorded.**

Golf and Sustainability

Among all sports, golf has a particularly close relationship with the environment and communities, golf facilities can bring many benefits to people and nature - from the protection of greenspace and conservation of biodiversity; healthy recreation for all ages; local supply chains; and jobs, tourism and other forms of economic value.

Adopting a more sustainable approach is also good for golf. It's about presenting a high-quality golf course and providing a memorable experience in natural surroundings. It's about being as efficient as possible. And it's about supporting the community in a range of ways that bring increased recognition, respect and contact.

At a broader level, it's important that golf credibly demonstrates its commitment, and its social and environmental value – strengthening the sport's image and reputation for the long term.

Golf facilities that participate in OnCourse®, an international sustainability initiative assured by the non-profit GEO Foundation, are taking a comprehensive approach and striving to be leaders in the community.

Find out more at www.sustainable.golf