



GEO Certified[®]

GEO Certified[®] Report Grange Golf Club

Prepared by Independent Verifier, Maurice Bergin

Certified by GEO Foundation: October 2021
Valid until: October 2024

GEO Certified[®]



**GEO
Foundation**
Sustainability in and through golf

“This is a very well managed and presented club with the benefit of extensive woodland, natural habitats and wildlife. Club management alongside committee are working closely to continually enhance the club’s environmental and sustainable initiatives and have a clear vision to further improve the facilities and reduce their overall environmental impact.”

Maurice Bergin

GEO accredited Independent Verifier



Introduction

GEO Foundation is pleased to confirm that Grange 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.

Grange 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 set for the future, Grange Golf Club should be awarded GEO Certified® status.

For the certification period stated above, Grange 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

Richard Allison
Manager, GEO Certified Facilities



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 – that 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	<ul style="list-style-type: none"> • Habitats & Biodiversity • Turfgrass management • Pollution prevention
Resources	<ul style="list-style-type: none"> • Water • Energy • Materials
Community	<ul style="list-style-type: none"> • 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	Map all habitats and vegetation types on the site; Regularly update landscape / biodiversity surveys	The club has good site mapping available of the course and associated areas. CIP

			Should consider mapping signature trees and make information available to members and visitors
	N1.1.2 Knowledge of legal designations for protected areas, habitats and species	Understand legal responsibilities for protected landscapes and species; Record and monitor protected, endangered, or rare species found on the site	Wild deer on site and bats in woodlands. Protection measures and bat boxes, etc. in place Planning to construct a barn owl habitat area in 2022
	N1.1.3 Understanding and respect for cultural heritage	Protect any archaeological, historical or cultural designations on the site	No specific area on site – There is a Moravian Cemetery adjacent which would benefit from signage advising golfers of its heritage and existence c. 1750
N1.2 Opportunities to naturalise the course	N1.2.1 Measures taken to identify and minimise the required area of managed turfgrass	Observe, track and / or monitor golfer play	Increase of 0.5ha of new habitat with selected managed areas allowed to return wild – and assisted with selective native planting. The club reviews this annually based on observation and player behaviour
N1.3 Actively manage habitats for wildlife	N1.3.1 Projects to manage habitats in the best way for wildlife and golf	Regularly review and follow a habitat management plan; Prioritise native species when planting and landscaping	The club is very aware of wildlife and will undertake a detailed wildlife survey in 21/22 Deer, bats, badgers are protected and barn owl habitat planned. Wildflower meadows are planted and the club has a number of beehives installed and a bug hotel. The club is engaged with local authority in developing habitats for red squirrels
N1.4 Conserve key species	N1.4.1 Practical conservation measures for priority species		Tree planting is of native Irish species Wildflower meadows for bees and other fauna A biodiversity and habitat management plan has been developed
N2 Turfgrass			
N2.1 Maintain optimum turf and soil health	N2.1.1 Appropriate turfgrass varieties adapted to climatic and other geomorphological factors	Select appropriate grass species for climate	The grass species in the greens is Agrostis stolonifera/Poa annua (60/40); the fairways consist of agrostis capillaris/ poa annua/loium perenne; the tees are lolium perenne and the cut rough is agrostis capillaris/poa annua/loium perenne; the uncut rough is festuca species/ poa annua and lolium species and Holcus lanatus (Yorkshire fog).

			Course management are very aware of the environmental challenges vs the need to provide the course for play and actively manage this aspect.
	N2.1.2 Practices to maintain good soil structure and condition		An integrated disease management programme is in place and regularly measured.
	N2.1.3 Careful and responsible fertiliser application throughout the year to avoid over-fertilisation	Undertake soil tests and nutrient analysis	Whilst current applications appear high they have been reduced over the past 5+ years by 50% and further actions are planned to reduce applications even further. Ongoing soil/leaf tissue test measurements lead the club here.
N2.2 Prioritise mechanical maintenance	N2.2.1 Non-chemical pest, disease and weed management	Sharpen mowing blades; Remove surface moisture; Hand weeding	
N2.3 Use chemicals responsibly	N2.3.1 Application of chemicals only when necessary to prevent or cure defined / identified turf health issues	Establish patterns and levels of risk for pests and diseases; Scout the course daily for early signs of pests and disease; Accurate pest and disease identification; Map and track pest and disease hotspots; Establish pest and disease thresholds	See N2.1.3 above
	N2.3.2 Application of chemicals with full safety precautions	Use only legally registered and approved products; Ensure staff are fully qualified and licenced to use pesticides; Regularly calibrate and test applicators; Use appropriate protective equipment; Dilute and dispose of leftover product on untreated areas of turf	This aspect is well managed – current storage is basic and will be enhanced with new maintenance facility development approved for 2022
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; Maintain mowing buffer zones around water and all ecologically sensitive areas; Maintain spraying and spreading buffer zones around water and all ecologically sensitive areas;	Buffer zones in place – single river running through a small section of the course and the woodlands

		Create a map / aerial visual reproduction, drawing etc of the course showing buffer zones and no-spray, no-spread areas.	
	N3.1.2 Practical measures to ensure pollution risks are minimised from clubhouse operations	Ensure all hazardous materials are safely and securely stored; Ensure compliance with all required standards and systems for hazardous waste and wastewater discharge	Clubhouse following good practice procedures throughout Wastewater discharge licence not required as discharges are to main sewer
	N3.1.3 Practical measures to ensure pollution risks are minimised from maintenance facility operations	Ensure wash areas are on impermeable, leak-free surfaces; Mixing and loading of pesticides and fertilisers over an impermeable surface; Triple rinse pesticide containers and applicators	Good practice impermeable pesticide and wash area with water recycling Good practice pesticide container rinsing – need to have excess empty containers removed
N3.2 Safely manage hazardous substances	N3.2.1 Legal compliance in the storage, handling, application and safe disposal of all hazardous substances	Maintain a register of hazardous materials available to authorised staff; Safe storage in secure and ventilated concrete or metal building; Sufficient storage capacity; Impermeable flooring; Spill containment kits present; Emergency wash area; Fire extinguisher in the immediate area; Secondary containment for fuel, either externally constructed, or integrally manufactured; Regular inspection of storage tanks	No specific local authority requirements Diesel stored in bunded container The club is in compliance with all fire, H&S requirements, including staff training
N3.3 Responsibly manage waste / storm water	N3.3.1 Appropriate wastewater usage and discharge licences	Wastewater discharge licence; Appropriate treatment of machinery wash water (impermeable surface, oil / grease / clipping separation)	Discharge licence not required Wash bay – good practice as noted above

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	Target irrigation to essential playing surfaces only	Managed along with turfgrass treatment – well water used for irrigation and EPA licence available The club allows fairways to go brown during hot periods
R1.2 Maximise water efficiency	R1.2.1 Practical measures to use water more efficiently on the golf course	Conduct regular irrigation performance checks; Provide staff training on efficient irrigation practices; Ensure effective application of water to target areas; Ensure irrigation schedules are informed by weather patterns and soil moisture analysis	Managed daily and with respect to weather patterns. Ireland has a temperate climate and issues generally only come into play in the summer months – actively managed
	R1.2.2 Practical measures to use water more efficiently in buildings	Audit water use regularly; Review bills frequently and look for irregularities; Encourage water-saving practices amongst staff and visitors; Categorise and track water consumption	Have water consumption records (Updated resource information following site-visit as data challenged) Planning to drive water reduction programme over next few years – especially relevant as local water charges will increase by 38% over the next 3 years to 2024
R1.3 Source water responsibly	R1.3.1 Measures towards alternative, lower quality sources of water	Ensure appropriate water abstraction permit and reporting, as required	EPA licensed
R2 Energy			
R2.1 Reduce energy demand	R2.1.1 Measures to reduce the amount of energy consumed in course maintenance	Minimise areas of managed turf to reduce mowing, irrigation, and turf inputs	0.5 ha removed in 2020 – this aspect is under constant review. Observation: The club is very generous on some holes, especially along the Whitechurch Rd boundary and could be more aggressive here in reducing managed turfgrass

R2.2 Maximise energy efficiency	R2.2.1 Measures to use energy and fuels more efficiently in buildings	Audit energy use regularly; Regularly review bills; Categorise and track energy consumption	Tracks energy consumption to a standard level. Is planning to improve this over the next few years and develop KPI's A new Building Energy Management System has been authorised
R2.3 Source energy responsibly	R2.3.1 Measures to source alternative, renewable forms of energy	Determine potential sources of renewable energy in the area and on-site, through renewable energy providers	New maintenance facility will have solar PV on its roof which could deliver 50%+ of its total energy requirements Electricity is currently 38% from renewable sources and club is considering switching to a 100% renewable supplier
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	Undertake a review of materials consumed	Part of the club's environmental strategy and approach. There is a strong focus on eliminating single use plastics and club has installed filtered water stations and sells reusable water bottles
R3.2 Purchase responsibly	R3.2.1 Practical use of an ethical / environmental purchasing policy	Adopt a sustainable, or ethical / environmental purchasing policy to maximise the use of locally sourced goods and goods made from recycled, recyclable and certified materials	In place – new recycling stations have been produced from recycled plastic. Food and beverage purchases have a very strong local provenance approach
R3.3 Reuse and recycle	R3.3.1 Waste stream separation for maximum recycling and re-use opportunity	Demonstrate waste separation, reuse and recycling; Track how much waste goes to landfill, or is reused / recycled	In place – this is a legal requirement for Irish businesses
R3.4 Demonstrate legal compliance	R3.4.1 Compliance with all local and regional waste management regulations	Use authorised waste and recycling contractor for general, hazardous, industrial and green waste	In place

COMMUNITY

C1 Outreach

Objectives	Requirements	Mandatory Practices	Verifier Notes
C1.1 Diversify access and provide multi-functionality	C1.1.1 Social and recreational activities at the facility		A member's club with a strong social calendar
C1.2 Provide for volunteering and charity	C1.2.1 Opportunities available for volunteering and support of charities and good causes		Very strong charitable arm with multiple activities – club has updated donations record as the initial information was grossly understated
C1.3 Establish active community partnerships	C1.3.1 Positive and constructive engagement with neighbours, the local community and other groups	Create a 'sustainability working group'	The club works closely with adjacent properties, including Public Park/Local Authority, Sports Fields and local community. An environmental committee is active and has representation on the club's management committee and is seen as an integral part of the club's future management

C2 Golfers & Employees

C2.1 Improve health and wellbeing	C2.1.1 Benefits to human physical and mental health from golf and facility activities		The club has developed a 'grow your own' garden and herb garden run and managed by members and provides foods for members and the club kitchen
C2.2 Be open and inclusive	C2.2.1 Inclusivity and diversity in membership and visitor policies	Demonstrate inclusive policies for members and visitors	The club has no barriers to entry and has a strong female recruitment programme, including 'Girls into Golf'
C2.3 Employ fairly and safely, and provide career opportunities	C2.3.1 Ethical and legal employment, working conditions and professional development	Follow all relevant national legislation and best practice for employment, health & safety etc	The club actively implements all national legislation

C3 Communications

C3.1 Engage golfers and members	C3.1.1 Communications activities that raise awareness	Provide information on the facility's sustainability commitments, actions, or achievements	In house magazine includes information and updates regarding the environment committee actions.
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	and understanding amongst members and visitors		<p>CIP Should include a 'Green Golf' section within its website – both in the Visitors and Members sections – to educate, inform and enhance the club's profile and communicate its broad sustainability approach</p> <p>An overall review should be completed and additional information provided for members and visitors – habitat, fauna & flora species, etc. maps would provide additional awareness to all.</p>
C3.2 Celebrate and promote sustainability	C3.2.1 Activities that raise awareness and engage people in the wider community	Provide evidence of external communications and community engagement	This area can be enhanced and improved. The club works with disability agencies and invites clients on site to play golf

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