



EVENT CARBON FOOTPRINT REPORT

IQFOIL 2023

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IMPACT SUMMARY



Starboard & the iQFOiL Sustainability Committee have calculated and offset the emissions for 8 major iQFOiL events including the **European Championships, World Championships, iQ Games & Palma Sailing Week.**



The iQFOiL Class is part of the **10x climate positive movement.** This means that for each of the major events mangroves are planted to offset emissions 10 times over.

Neutral is no longer enough, we need to create a positive impact!



Together with Worldview International Foundation, **38,297 Mangrove trees** have been planted in Myanmar. Absorbing iQFOiL Event emissions 10x over and funding essential local livelihood programs.



CARBON FOOTPRINT

METHODOLOGY

For each iQFOiL event, CO2 emissions from transportation to and from the event as well as fuel use during the event period are calculated.

Athletes & Staff Travel

Prior to each event, participating athletes & attending staff members were asked complete a questionnaire about their travel. The questionnaire asked for details on:

- How they travelled to the event.
- If they flew, which airports did they fly through.
- If they travelled over land did they use a car, van, bus or train? And how many km did they travel via each mode of transport.

From here we calculated the travel emissions using the [Carbon Footprint UK calculator](#).

Fuel Use

At each event gasoline is used to fuel the support ribs, safety and media ribs and coach boats.

To calculate emissions, the amount of fuel used per day was estimated and multiplied by the number of event days.

Estimating Missing Data

For events where we didn't receive travel from all participating athletes we calculated the average emissions per person and multiplied this by the number of participants. For several events where we didn't get any responses we used the average emissions from all of the other events.

For fuel calculations we used an average quantity per day for any events where the exact amount was not recorded.

Margin of error

We add an additional 10% to account for any inaccuracies in calculations and ensure we are planting enough trees to offset emissions 10 x over.

10 X Carbon Positive

To offset emissions 10 times over we plant 30 trees per tonne of CO2 released.



WHY MANGROVES?

Mangroves are a species of tree that grow in densely packed forests around shorelines and estuaries in tropical and sub-tropical regions. ***But what makes them so special to us?***

CLIMATE HEROES

Mangrove forests are classified as **Blue Carbon ecosystems**. This simply means that they are a community of organisms (ecosystem) located in or around the ocean (blue) which absorb CO₂ (carbon).

Blue Carbon ecosystems are some of the most effective at fighting climate change due to their amazing ability to absorb and store carbon dioxide from the atmosphere.

Blue Carbon ecosystems only cover 2% of the world, but they account for approximately 50% of the planet's ocean carbon stores.

Like most plants, Mangroves absorb CO₂ in order to grow. But what makes them special is their ability to store that carbon for 1000's of years even after a tree has died.

They can do this by trapping organic matter in the soil under the forest. Their complex root systems along with their tidal location and thick mud makes it almost impossible for old branches or leaves to breakdown and release CO₂ back into the atmosphere.

BIODIVERSITY HAVEN

Mangrove forests are much more than just a group of trees. They support a huge variety of wildlife from elephants to honey bees. Their root systems act as nurseries for young fish, crabs and turtles. Providing them with food and hiding spaces until they are big enough to fend for themselves in the open ocean.





WHY MANGROVES?

LAND PROTECTORS

Thriving mangrove forests trap sediment, prevent erosion and protect coastlines against rising sea levels.

They also provide an amazing natural defence against tropical storms, cyclones and tsunamis. Protecting the land and communities behind the forest from the worst extreme weather.

FOR PEOPLE & PLANET

We plant mangroves in partnership with **Worldview International Foundation** (WIF) in Myanmar. WIF currently operate 6 Verified Carbon Standard certified projects with record high **96% survival rates**.

But what is so special about Worldview International Foundation, and what contributes to their high survival rate, is their commitment to supporting sustainable development within local communities.

Not only does WIF employ local people to plant and care for the forests it also supports the communities neighbouring the projects to ensure they feel the benefits of protecting the mangroves.

For every mangrove planted with WIF, 50% of the carbon that it sequesters is sold as carbon credits and used to fund essential livelihoods projects. These livelihoods projects include:

- Supplying villages with **solar panels & cookstoves**
- Supporting **university scholarships** for young people
- Funding **teacher salaries** and **educational materials**
- Supporting the launch of **sustainable businesses** including seaweed farms and natural fertilizer production.



INTERNATIONAL GAMES #1

LANZAROTE



CARBON FOOTPRINT

151 athletes and 41 coaches attended the 6 day event, representing 35 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 201.01 Tonnes CO₂e

Fuel use was estimated as 15 litres of gasoline for each of the 6 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 41 coach boats per day.

Total fuel emissions = 6.9 Tonnes CO₂e

Total CO₂e = 207.91 Tonnes CO₂e

Mangroves Planted

To make the event carbon neutral **624** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO₂ emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL International Games #1 in Lanzarote Starboard & iQFOiL have planted:



6 2 3 7

MANGROVES

With Worldview International Foundation



INTERNATIONAL GAMES #2

| MIYAKOJIMA



CARBON FOOTPRINT

19 athletes and 5 coaches attended the 5 day event. Representing 2 nations, Hong Kong & Japan. Travel emissions were calculated for all attendees.

Total travel emissions = 11.52 Tonnes CO2e

Fuel use was estimated as 15 litres of gasoline for each of the 2 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 5 coach boats per day.

Total fuel emissions = 1.28 Tonnes CO2e

Total CO2e = 12.8 Tonnes CO2e

Mangroves Planted

To make the event carbon neutral **38** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO2 emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL International Games #2 in Miyakojima Starboard & iQFOiL have planted:



384

MANGROVES

With Worldview International Foundation



INTERNATIONAL GAMES #3 & YOUTH & JUNIOR GAMES #1

CADIZ



CARBON FOOTPRINT

174 athletes and 30 coaches attended the 6 day senior, youth and junior event, representing 22 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 103.31 Tonnes CO2e

Fuel use was estimated as 15 litres of gasoline for each of the 6 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 30 coach boats per day.

Total fuel emissions = 5.5 Tonnes CO2e

Total CO2e = 108.81 Tonnes CO2e

Mangroves Planted

To make the event carbon neutral **326** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO2 emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL Senior, youth and junior International Games in Cadiz Starboard & iQFOiL have planted:



3264

MANGROVES

With Worldview
International Foundation



EUROPEAN CHAMPIONSHIPS

PATRAS

CARBON FOOTPRINT

203 athletes and 72 coaches attended the 9 day event, representing 33 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 223.44 Tonnes CO2e

Fuel use was estimated as 15 litres of gasoline for each of the 6 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 71 coach boats per day.

Total fuel emissions = 16.1 Tonnes CO2e

Total CO2e = 239.55 Tonnes CO2e

Mangroves Planted

To make the event carbon neutral **719** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO2 emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL European Championships in Patras Starboard & iQFOiL have planted:



7186

MANGROVES

With Worldview
International Foundation



INTERNATIONAL GAMES #4

| SILVAPLANA



CARBON FOOTPRINT

87 athletes and 11 coaches attended the 7 day event, representing 19 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 55.57 Tonnes CO2e

Fuel use was estimated as 15 litres of gasoline for each of the 3 support boats per day, 20 litres for the 2 safety and media boats per day. In Silvaplana no coaching boats are allowed on the course.

Total fuel emissions = 1.24 Tonnes CO2e

Total CO2e = 56.81 Tonnes CO2e

Mangroves Planted

To make the event carbon neutral **170** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO2 emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL International Games #4 in Silvaplana Starboard & iQFOiL have planted:



1704

MANGROVES

With Worldview International Foundation



INTERNATIONAL GAMES #5

TORBOLE

CARBON FOOTPRINT

37 athletes and 7 coaches attended the 6 day event, representing 19 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 17.32 Tonnes CO₂e

Fuel use was estimated as 15 litres of gasoline for each of the 2 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 7 coach boats per day.

Total fuel emissions = 1.79 Tonnes CO₂e

Total CO₂e = 19.1 Tonnes CO₂e

Mangroves Planted

To make the event carbon neutral **57** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO₂ emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL International Games #5 in Torbole Starboard & iQFOiL have planted:



573

MANGROVES

With Worldview International Foundation



INTERNATIONAL GAMES #6

| SHENZHEN



CARBON FOOTPRINT

111 athletes and 31 coaches attended the 7 day event, representing 8 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 80.51 Tonnes CO2e

Fuel use was estimated as 15 litres of gasoline for each of the 4 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 31 coach boats per day.

Total fuel emissions = 6.11 Tonnes CO2e

Total CO2e = 86.63 Tonnes CO2e

Mangroves Planted

To make the event carbon neutral **260** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO2 emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL International Games #6 in Torbole Starboard & iQFOiL have planted:



2599

MANGROVES

With Worldview International Foundation



YOUTH & JUNIOR GAMES #2

CAMPIONE

CARBON FOOTPRINT

120 athletes and 19 coaches attended the 4 day event, representing 13 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 41.99 Tonnes CO2e

Fuel use was estimated as 15 litres of gasoline for each of the 4 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 19 coach boats per day.

Total fuel emissions = 2.47 Tonnes CO2e

Total CO2e = 44.47 Tonnes CO2e

Mangroves Planted

To make the event carbon neutral **133** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO2 emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL Youth & Junior International Games #2 in Campione Starboard & iQFOiL have planted:



1334

MANGROVES

With Worldview International Foundation



Y & J EUROPEAN CHAMPIONSHIPS

TORBOLE

CARBON FOOTPRINT

422 athletes and 79 coaches attended the 8 day event, representing 36 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 448.33 Tonnes CO2e

Fuel use was estimated as 15 litres of gasoline for each of the 14 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 79 coach boats per day.

Total fuel emissions = 17.72 Tonnes CO2e

Total CO2e = 466.05 Tonnes CO2e

Mangroves Planted

To make the event carbon neutral **1398** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO2 emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL Youth & Junior European Championships in Torbole Starboard & iQFOiL have planted:



13981

MANGROVES

With Worldview International Foundation



Y & J WORLD CHAMPIONSHIPS

CADIZ



CARBON FOOTPRINT

359 athletes and 74 coaches attended the 8 day event, representing 28 nations. Travel emissions were calculated for all attendees.

Total travel emissions = 376.76 Tonnes CO2e

Fuel use was estimated as 15 litres of gasoline for each of the 12 support boats per day, 20 litres for the 2 safety and media boats per day and 10 litres for each of the 74 coach boats per day.

Total fuel emissions = 18.4 Tonnes CO2e

Total CO2e = 395.16 Tonnes CO2e

Mangroves Planted

To make the event carbon neutral **1185** mangroves would need to be planted in Myanmar - **3 for every Tonne of CO2 emitted.**

However we believe that neutral isn't enough.

This event is helping regenerate and reforest our planet by **offsetting emissions 10X over.**

For the 2023 iQFOiL Youth & Junior World Championships in Cadiz Starboard & iQFOiL have planted:



11855

MANGROVES

With Worldview International Foundation

1660.39

tonnes of CO2 was emitted as a result of fuel use and travel to and from the 10 events mentioned in this report

49,812

Mangroves have been planted to offset these emissions 10x over.

