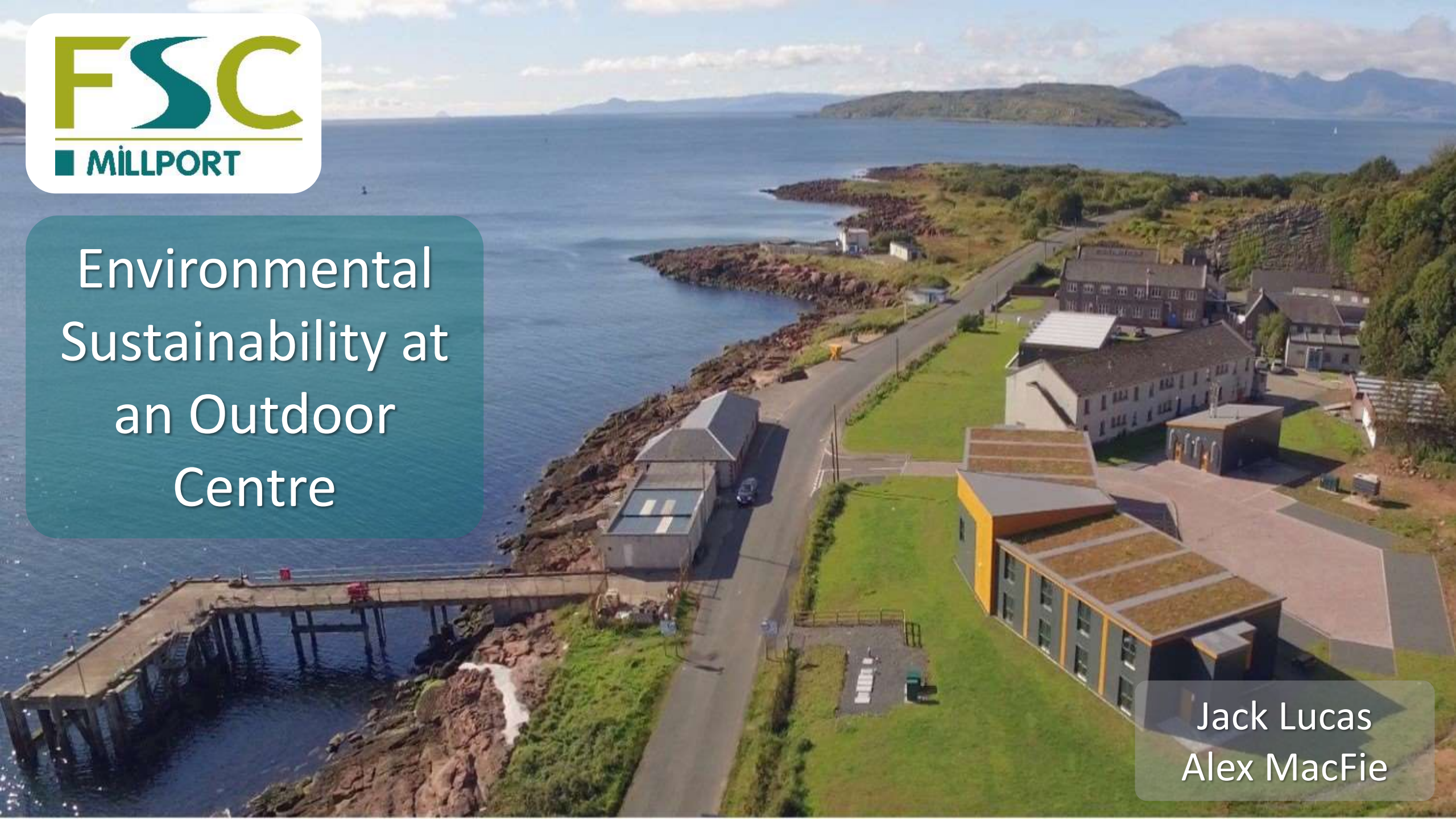


# Environmental Sustainability at an Outdoor Centre

An aerial photograph of the Millport Outdoor Centre. The image shows a modern building with a green roof and yellow accents, situated on a grassy area next to a rocky coastline. A pier extends into the sea on the left. In the background, there are mountains and a body of water under a blue sky with some clouds.

Jack Lucas  
Alex MacFie





The FSC was established in 1943 to provide environmental education to children moved out of cities during WWII.

The charity has since grown into a national environmental organisation with residential and day centres that aim to:

- ✓ *Increase our understanding and caring of the natural world*
- ✓ *Get more young people outdoors*
- ✓ *Increase people's health and wellbeing through outdoor education*



# Millport Marine Station



1885



1970



2014



1897



1970



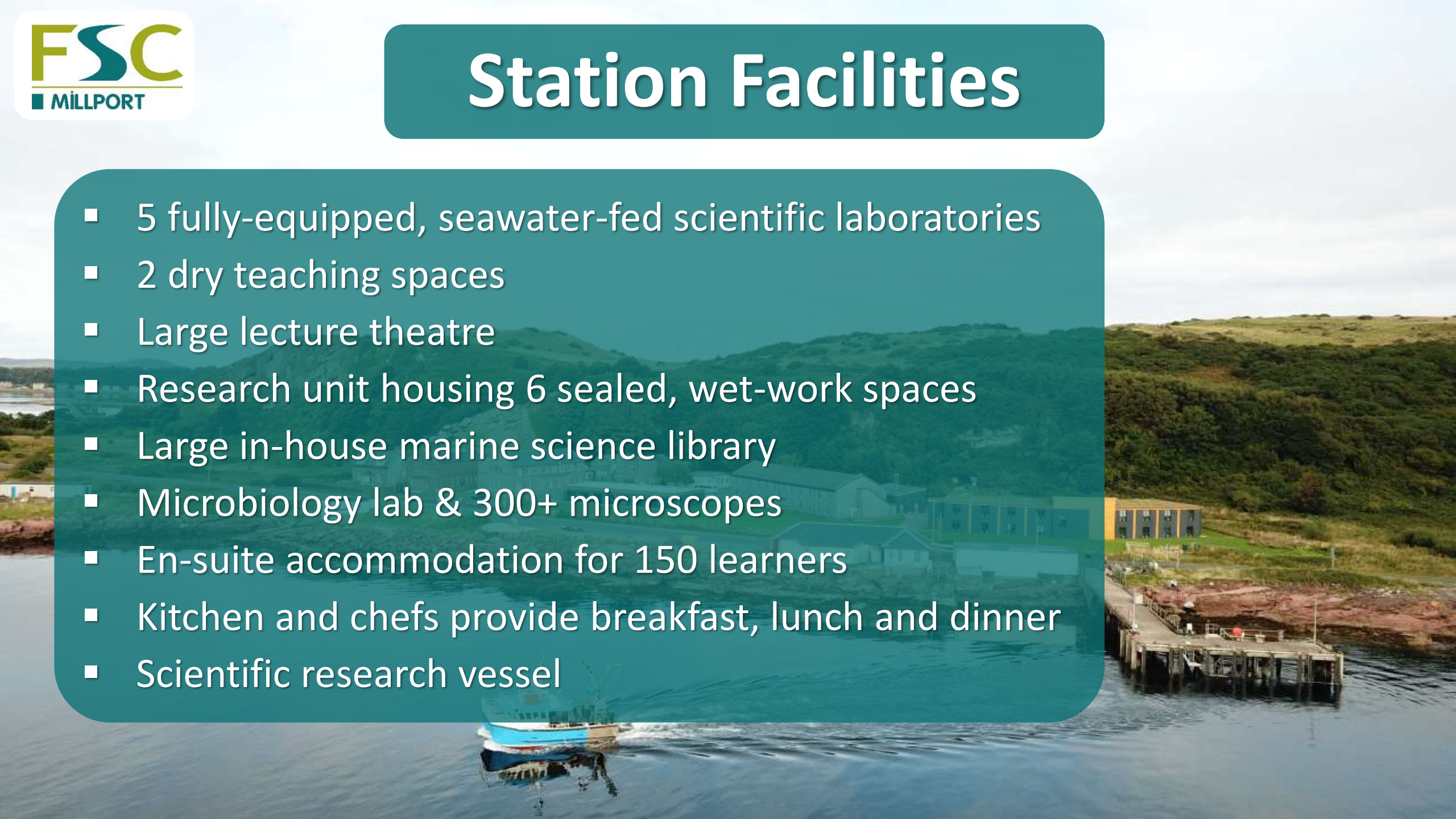
2019





# Station Facilities

- 5 fully-equipped, seawater-fed scientific laboratories
- 2 dry teaching spaces
- Large lecture theatre
- Research unit housing 6 sealed, wet-work spaces
- Large in-house marine science library
- Microbiology lab & 300+ microscopes
- En-suite accommodation for 150 learners
- Kitchen and chefs provide breakfast, lunch and dinner
- Scientific research vessel





# Our field courses...



University Marine  
Field Courses



Primary Adventure  
Residentials



High School Science  
Trips



Professional adult  
CPD courses



Conferences,  
Workshops & Events



Wildlife, Natural  
History & Art



Real Family Holidays



Teacher Training



Buildings and Infrastructure



Hospitality and Catering



Centre Grounds



Education & Teaching







Buildings and Infrastructure



Hospitality and Catering



Centre Grounds



Education & Teaching





Older buildings



Newer buildings





# Carbon Footprint



REDUCING CO2  
YEAR ON YEAR

FSC has reduced its own carbon emissions by 34% since 2011

- ➔ 389 tonnes of carbon dioxide saved
- ➔ Driving one of our mini buses around the world 51 times

*By investing in local, renewable energy production at our centres we have reduced our reliance on fossil fuels to less than 50% in 2018.*



# Green Energy



**ecotricity**

Around 95% of FSC buildings are now supplied with green electricity from **Ecotricity**

*As well as having our green electricity supplied, we now produce around 17% of our energy needs through our own sources.*





# Mini-renewables



Mini wind turbine and solar panel



# Lighting



and showers!



Lights in all bathrooms, corridors  
and some teaching areas are  
motion-activated







Biomass boiler provides all hot water and heating on site



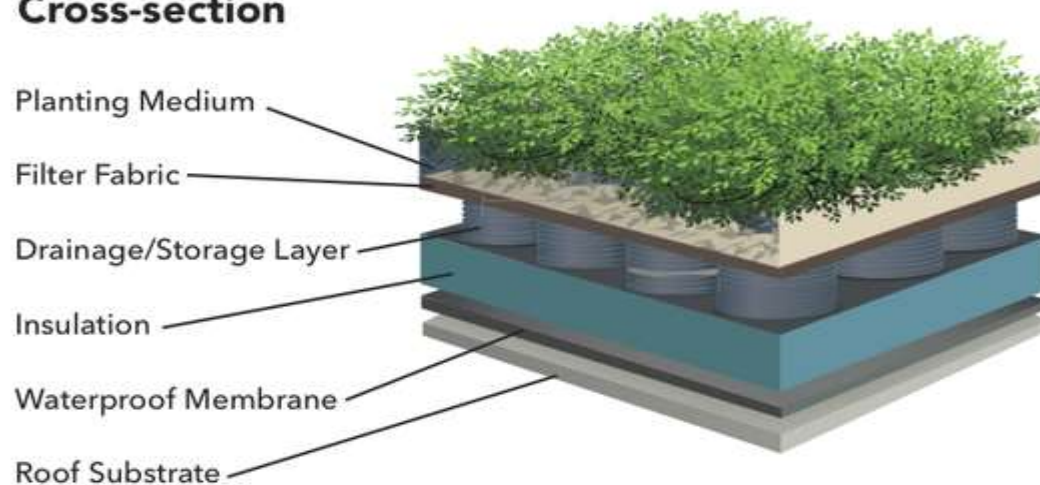


# Living Roof



Designed to replace  
lost grassland

## Green Roof Cross-section







# Vehicles

Vehicles are short-term leased to ensure newest and most efficient models



Electric vehicle  
for errands





Buildings and Infrastructure



Hospitality and Catering



Centre Grounds



Education & Teaching





# Sustainable Meal Choices



Ensure food items are as locally sourced as possible



**OUR FOOD IS ACCREDITED BY  
FOOD FOR LIFE SERVED HERE**

## SUSTAINABLE

We never use fish on the marine conservation society 'fish to avoid list'.



WE CAN TRACE OUR MEAT

## BACK TO THE FARM

All of the meat on our menus meets UK welfare standards.



Menus are designed to make the best of **SEASONAL INGREDIENTS**



Accredited by  
Soil Association

# Sustainable Meal Choices



← Ensure food items are as locally sourced as possible

Calculate the carbon footprint of each meal ↗





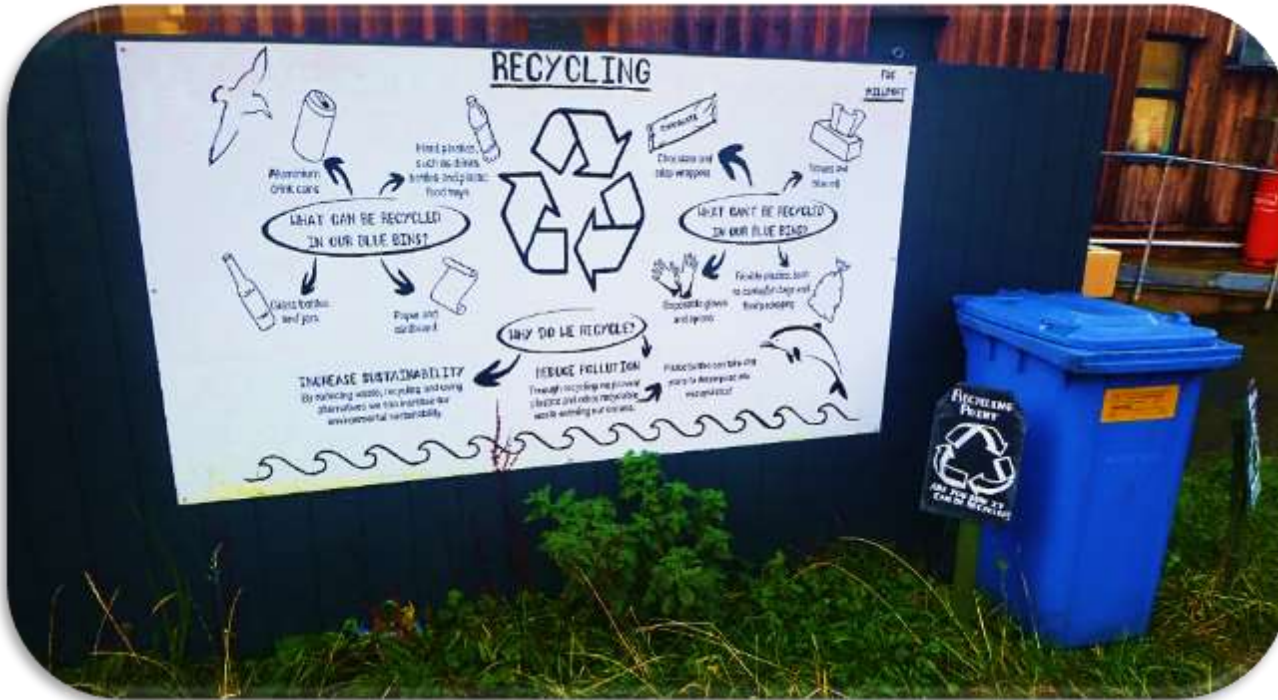


## Water-saving toilets



Only use soap dispensers  
No disposable soaps





Recycling facilities in each public space or teaching room



Recycling initiatives made obvious around centre





# Food Waste



All food waste  
is collected  
throughout  
the centre



Leftovers are reused  
the next day





Buildings and Infrastructure



Hospitality and Catering



Centre Grounds



Education & Teaching





# Centre Grounds



Bug  
Hotel

Bird  
Box



Reptile  
Refugia

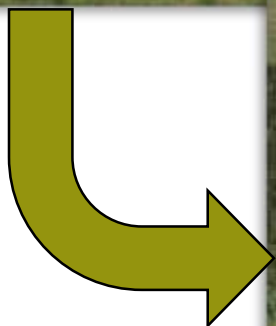
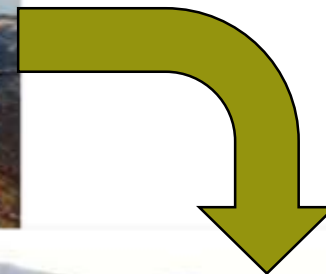
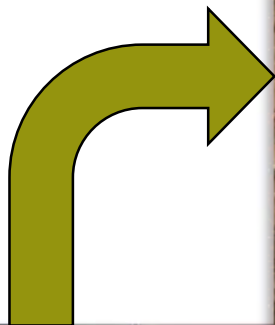


Bat  
Box





# Pond Habitat





# Grounds lighting



Solar-powered  
lights for  
outdoor areas  
at night





# Nature Trail





# Tree Planting



## Largs & Millport Weekly News

News

18th December 2018

Tree-mendous effort sees 400 new arrivals on Millport



New seedlings  
planted around  
centre grounds





Buildings and Infrastructure



Hospitality and Catering



Centre Grounds



Education & Teaching





# Citizen Science



Rare species



Litter picks



Biodiversity  
& ecosystem  
health



Biological  
monitoring



Invasive species



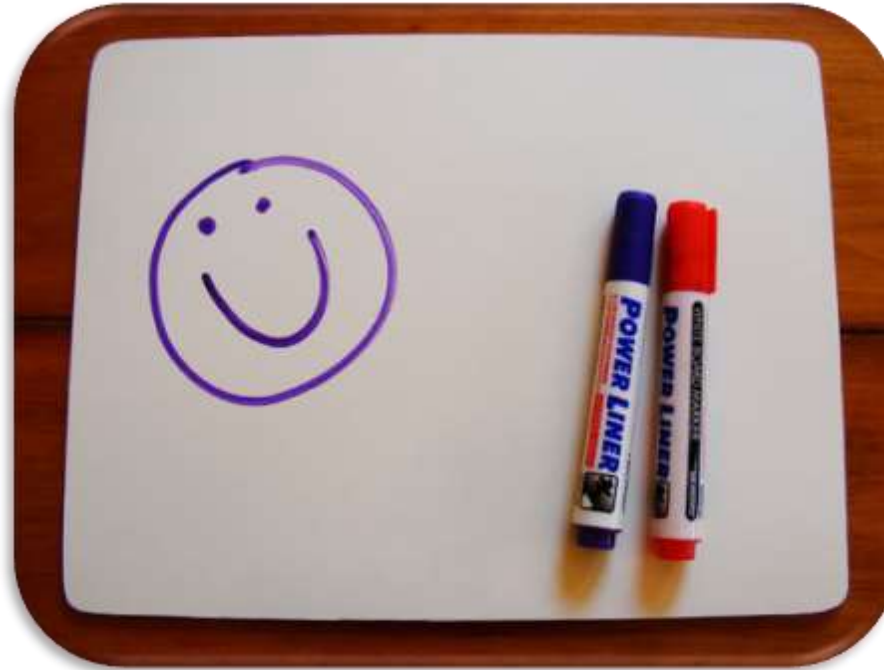
National watches



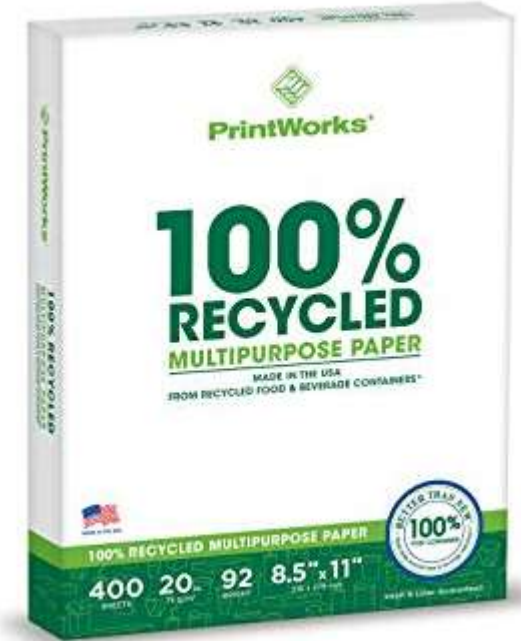
# Paperwork



Laminate  
resources



Use mini-  
whiteboards



Buy recycled  
paper







Plastic-free  
soap



Wooden /  
paper items



Re-usable  
food storage







# Marine Debris

Beach  
cleans

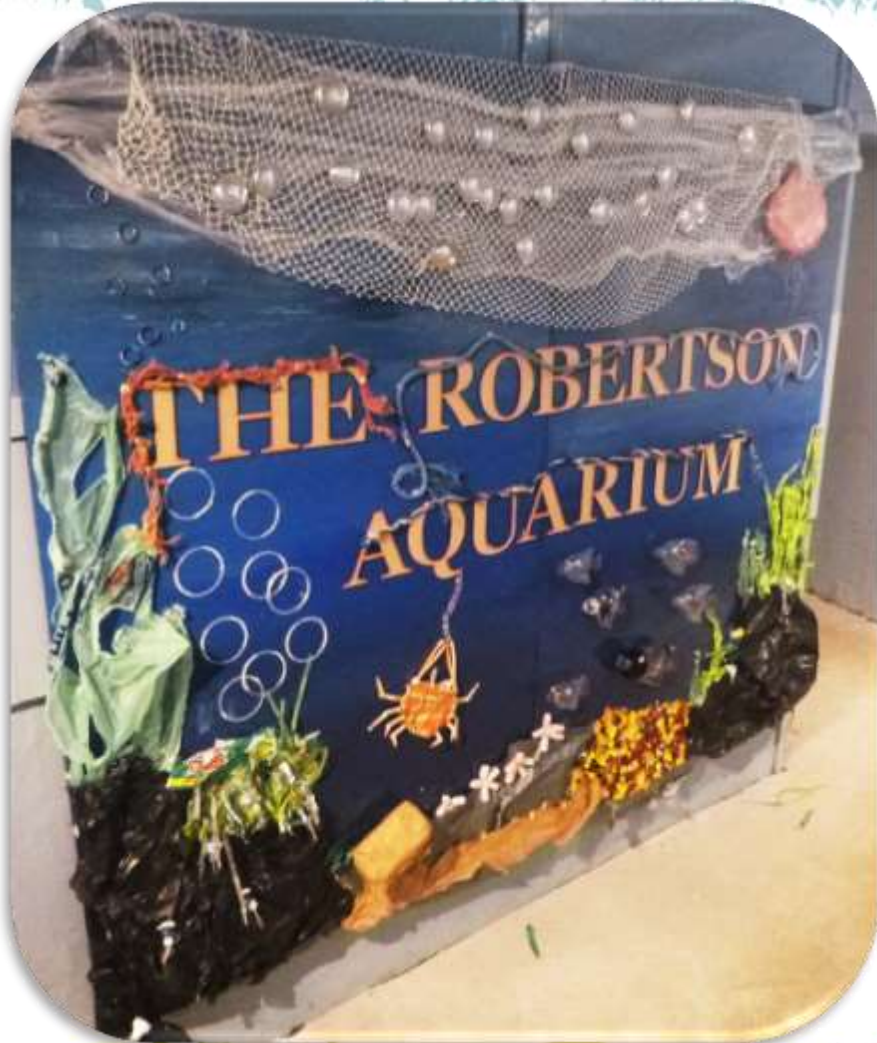
Staff litter  
picks

Marine debris  
collected from boat





# Museum & Aquarium

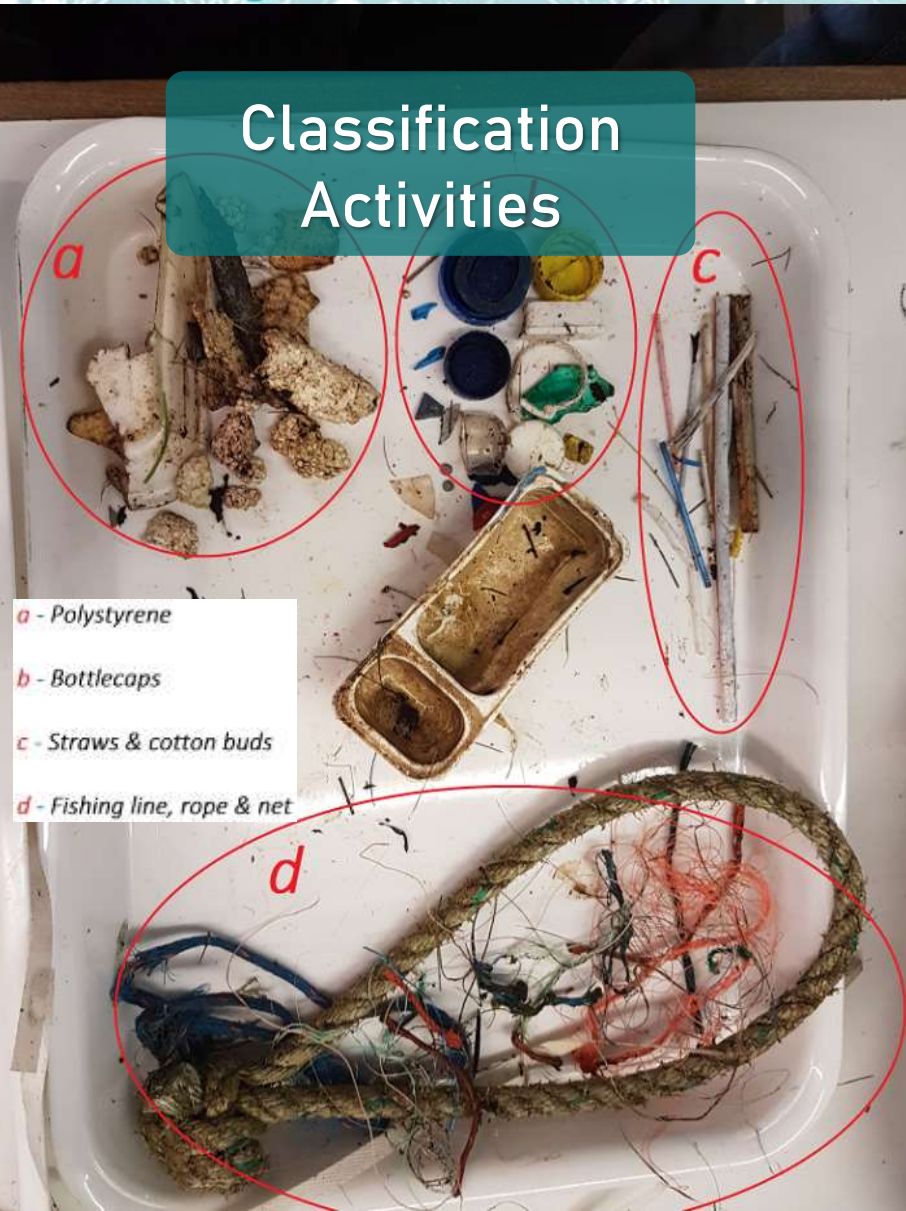




# Litter-acy and Numeracy



## Classification Activities



## Beach Art



## 'Litter Graphs'





# Looking forward...



Eliminating single-use  
plastics from deliveries



Fully plastic-free shop







# Assign Sustainability Roles



Without someone taking responsibility for the environmental actions of the centre, initiatives can lose momentum quickly...



Sustainability  
Coordinator

“ECOMmittee”

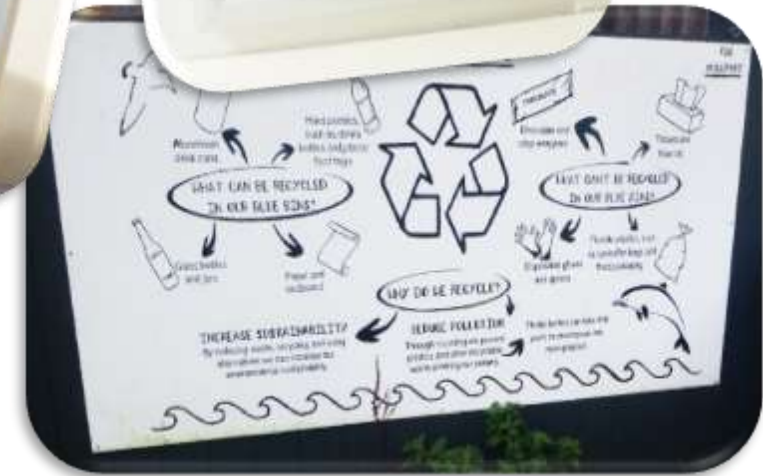
Structured part of  
team meetings



# Signage

**TELL  
PEOPLE  
WHAT  
YOU'VE  
DONE!**

= affect behavioural  
change in our  
visitors





# Accreditation



REDUCING CO2  
YEAR ON YEAR







- ✓ Water savers
- ✓ Outdoor classroom
- ✓ Solar lights
- ✓ Renewable installations



# Come see for yourself!



After conference  
finishes, why not  
head over to the Isle  
of Cumbrae?

Sustainability tours  
available at the  
centre until 5pm





Any questions?

[www.field-studies-council.org](http://www.field-studies-council.org)



[enquiries.mil@field-studies-council.org](mailto:enquiries.mil@field-studies-council.org)



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