

Background

This meeting and working group have been established to look at ways Inverness College can reduce their carbon footprint through all its operations.

Energy Strategy 2022/23 – Update 24th Aug 2022

Topic area	Project Details	Time period covered Year 3 of 5	Comments	June 2022 Update
Business travel	Travel Policy - Car share.	Ongoing	Policy on hold due to high fuel cost.	Estates drafting requirements for next 3 years.
Staff / Student Travel	Travel Policy - Car usage reduction, Cycle friendly campus, public transport.	3 years	Transfer to staff and students to no or low transport options.	Next Active Travel even Refreshers week Sept 2022.
Energy efficiency	Summer / Winter loading initiative.	5 years	Facility system management – to reduce consumption during low occupancy periods.	Energy base line double design level. 1 st step is establish high energy users within Campus.
Fleet transport	Minibus / fleet cars transferee to Electric	5 years	Fleet review	EV charging operational. Car club being reviewed. Estates eV being sourced.
Information and communication technology	Video Conference	5 years	Well established within academic structure.	Blended learning continued for 2022/23. Additional Nooks ordered.
Hybrid working of staff	Staff work room review and redesign.	1 year	Workroom space freed up with hot desks, etc.	1 year pilot to be reviewed April 2023.
Renewable energy	Generation systems	2 years	Expansion of current green energy systems	Solar Panel installation on both campuses.

			to achieve net zero objective.	
Internal / External lighting project	Review lighting equipment and systems.	2 years	System management review.	Carpark and internal lights change over LED.
Sustainable/renewable heat	Biomass / Ground source pump	2 years	Asset management system. Review balance of systems to increase sustainability heat source contribution.	Baseline review and BMS system review.
Waste management	Waste Reduction Initiative	1 year	90% recycling of waste by 2023	Waste review to incorporate academic activity to be undertaken
Water capture.	Rain capture nursery	3 years	Project scope required	Water management plan to be developed.
Compressed Air Management	Summer switch off	2 years	System management and system survey	Leak management IC/GTFM
Land Use	Productive Garden	5 years	Community project	Project update. Tree planting strategy all sites.
Carbon reduction strategy	Race to Zero	18 years	UN directive in line with COP goal of 1.5 Degree C limit.	College has signed up to Net Zero by 2040. Road map to be issued: - Oct 2022

Action Log

Current projects

Energy management Plan.

Reviewing Environmental report findings

Actions

- High Electrical Base level.
 - Electrical loading survey to be undertaken – GTFM to forward Costs.
 - Concentrate on server room loading.
 - LED lighting upgrade. Raise for costing and saving projections payback period.
 - Funding options to be reviewed. To be presenter to EMT - allocate resource.
- Reduce Atrium heating set point – GTFM complete
- Review BMS reduction during Summer break – GTFM Complete
- Daylight sensors for lighting – GTFM costing
- Audit Lighting switch off – IC Oct 2022
- Investigate use of ground source cooling system to be used for server rooms – GTFM not viable.
- ½ hr reading review has been undertaken by GTFM – report to be issued.
- Gas Heating and HW boilers to be reviewed for Hydrogen compatibility. - GTFM

Transport Plan

Actions:

- College vehicle fleet to move to car club and hybrid. proposal put to Enterprise awaiting update.
- Cycle Friendly Campus Project. HISA Cycling intern, supporting project.

Utilities & Waste Management

Actions:

- New target set at 90% to include academic material management /waste streams.
- Support required to review material management for curriculum Activities – To be taken to Sustainability working group.
- Rainwater capture and grey water usage project to be taken to Sustainability working group.
- Water meter readings – main incomer meter to be used. – GTFM
- Compressed air leaks & system schedule to be reviewed. – GTFM/IC

AOB

- Present latest technology being introduced across the sector
- ENT2030 to be attached for this meeting
- Sustainability project requires additional resources from IC and GMT

Statistics

In July 2022 Inverness College consumed:

- 97,620 kWh of Electricity at Beechwood
- 6,733 kWh of Electricity at Balloch
- 9,150 kWh of Gas at Beechwood
- 9,600 kWh of Biomass Woodchip at Balloch
- 402 m3 of Water at Beechwood
- 1 m3 of Water at Balloch

- this is 6.17% less than the same month last year
- this is 41.62% more than the same month last year
- this is 48.82% less than the same month last year
- No comparison as the biomass boiler was off_line from Dec 2019
- this is 793.33% more than the same month last year
- this is the same as last year

