

**naa** national  
arenas  
association

# NAA GREEN GUIDE

BY NAA & A GREENER FUTURE

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# FORWARD

The NAA Green Guide has been developed through a collaboration between National Arenas Association (NAA) Arena Managers and the sustainability experts from A Greener Future (AGF).

The NAA is a body that brings together the largest indoor arenas in the UK and Ireland to share best practice for operators and venues. The NAA Green Group seek to make NAA arenas the best and most sustainable in the world.

A Greener Future (AGF) is a not-for-profit company helping live sector organisations, including arenas, venues, events, festivals and tours worldwide to be more sustainable and reduce environmental impacts, since 2005.

*3Arena Dublin, Alexandra Palace London, AO Arena Manchester, Bournemouth International Centre Bournemouth, bp pulse LIVE Birmingham, Braehead Arena Glasgow, Brighton Centre Brighton, Co-op Live Manchester, Coventry Building Society Arena Coventry, first direct Arena Leeds, M&S Bank Arena Liverpool, Motorpoint Arena Nottingham Nottingham, Olympia Events London, OVO Arena Wembley London, OVO Hydro, Glasgow Glasgow, P&J Live Aberdeen, Royal Albert Hall London, The SSE Arena Belfast Belfast, The O2 London, Utilita Arena Birmingham Birmingham, Utilita Arena Cardiff Cardiff, Utilita Arena Newcastle Newcastle, Utilita Arena Sheffield Sheffield*

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## NAA GREEN GUIDE

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*“The NAA Green Group are hopeful that through continued collaboration such as this document, we can collectively make positive change across all our very different and unique venues. This guide is central to the group achieving this regardless of where they are on the sustainable journey. Please encourage all your stakeholders to engage with this group and this document”.*

**Lee Chadburn, NAA Green Guide Chair**

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# AIM OF THE NAA GREEN GUIDE

*The NAA Green Guide has been produced to help all NAA members operate sustainably into the long-term future. While the NAA Green Guide addresses both the essential and broader Environmental aspects of arena management, it also deals with the two other dimensions of sustainability - Social inclusion and Economic opportunities. These three dimensions, Planet, People, Prosperity, are also referred to as the “Three Pillars of Sustainability”.*

*Through using the NAA Green Guide, arenas and venues will be able to work towards achieving the following sustainability targets:*

- ▼ **Implement** or improve their **Sustainability Policies** and overall governance.
- ▼ Achieve clear **lines of communication** about their **Sustainability Strategies** to all stakeholders.
- ▼ Protect and **enhance local biodiversity**.
- ▼ **Reduce energy consumption, maximise energy efficiency** and move towards 100% renewable energy.
- ▼ **Increase plant based menu options** from sustainable sources.
- ▼ **Send zero waste to landfill, reduce waste, and maximise reuse and recycling** of materials.
- ▼ Promoters/Production encouraged to **move away from environmentally polluting Special Effects (SFX)** such as CO2 & Confetti Cannons and some Pyrotechnics.
- ▼ **Eliminate disposable cups** and other single-use items.
- ▼ **Reduce transport emissions** associated with touring productions, staff and audiences.
- ▼ **Reduce water use** and protect water resources.
- ▼ **Aim to remove carbon emissions** that cannot be eliminated at source.
- ▼ **Position your arena, enhance your sustainability voice, and bring people together to lead in sustainability initiatives.**



# INTRODUCTION

**THE NAA GREEN GUIDE IS COMPOSED OF FOUR PARTS:**

## PART 1

### Venue Governance

is relevant to the venue management team and stakeholders. Governance refers to the decision-making process within an organisation, good governance being a key factor in maintaining a successful sustainability programme. While the remaining three parts of the NAA Green Guide address specific aspects of social and economic pillars of sustainability, the main aspects of these two pillars are covered within Venue Governance, and it is essential to deal with this part first to lay a solid foundation for long-term sustainability.

## PART 2

### Venue Facilities

is relevant to the facilities management team, and are in-house requirements and suggestions that can be considered or actioned to increase the sustainability of the venue itself.

## PART 3

### Promoters & Production

includes guidance on what NAA venues expect from Promoters and Production teams, additional items these teams could consider to make their shows more sustainable, and sustainability initiatives that venues should highlight in advance of Promoters and Production teams coming to the arena.

## PART 4

### Audience Management

includes guidance on inhouse aspects that venues should manage in relation to the customer experience and sustainability information that should be made available to the audience / customer.

The guide also includes **“Sustainability Guideline Templates”**  
– a few short templates that can be adapted per venue, setting out their individual sustainability requirements and infrastructure, that can be adapted to staff inductions, contractor inductions or supplier contracts for example.

*We appreciate that we have produced a lot of information here, so have consciously split the sections into areas that allow your internal team and key stakeholders to “dip” into the relevant sections. These can be adapted per venue and used by production, promoters, and stakeholders, to understand policies, processes, and expectations for different venues.*

*Links to policies, templates, resources, external organisations and legislative bodies mentioned throughout the text, can be found in the resources page at the back of the guide.*



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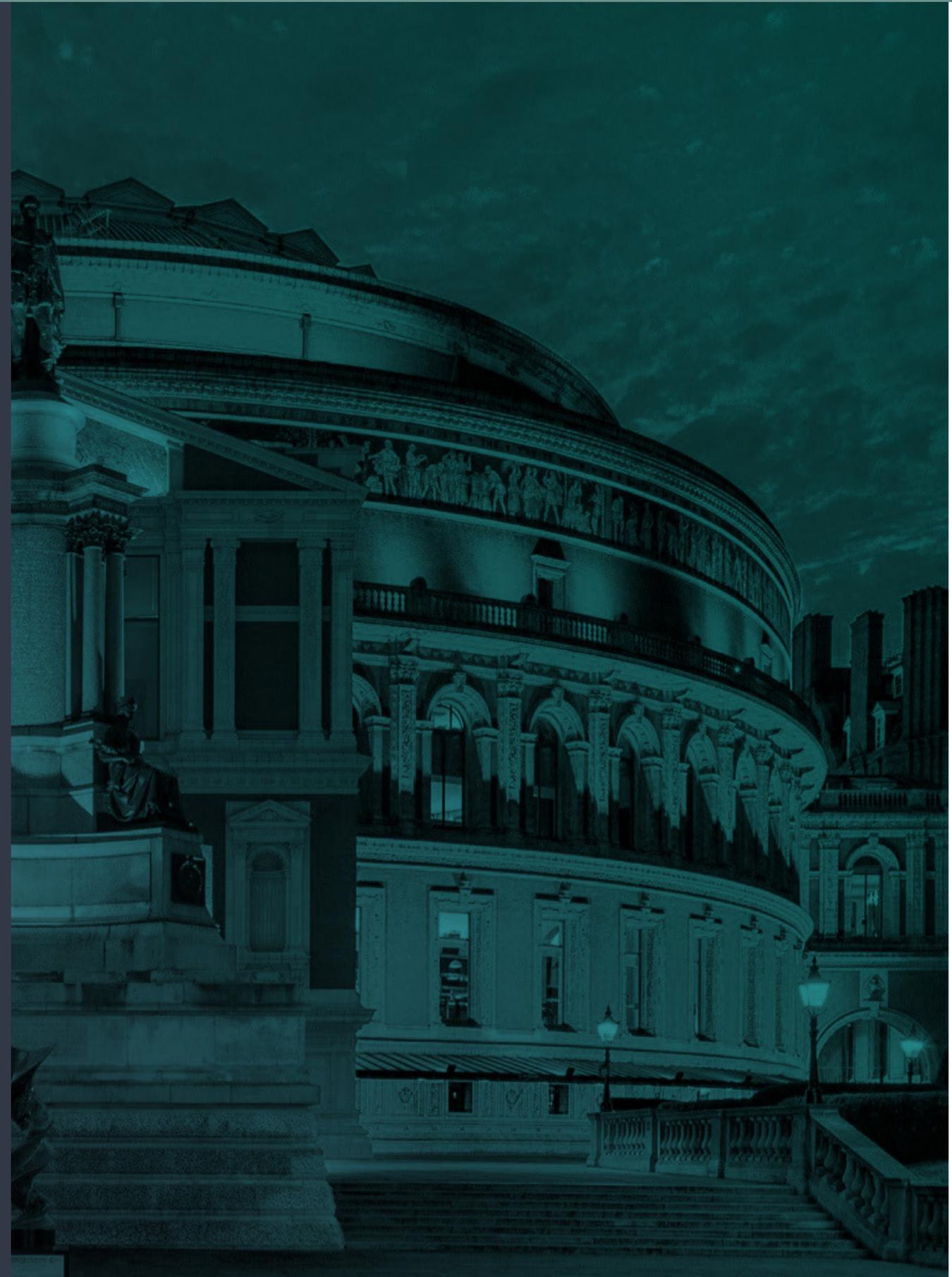
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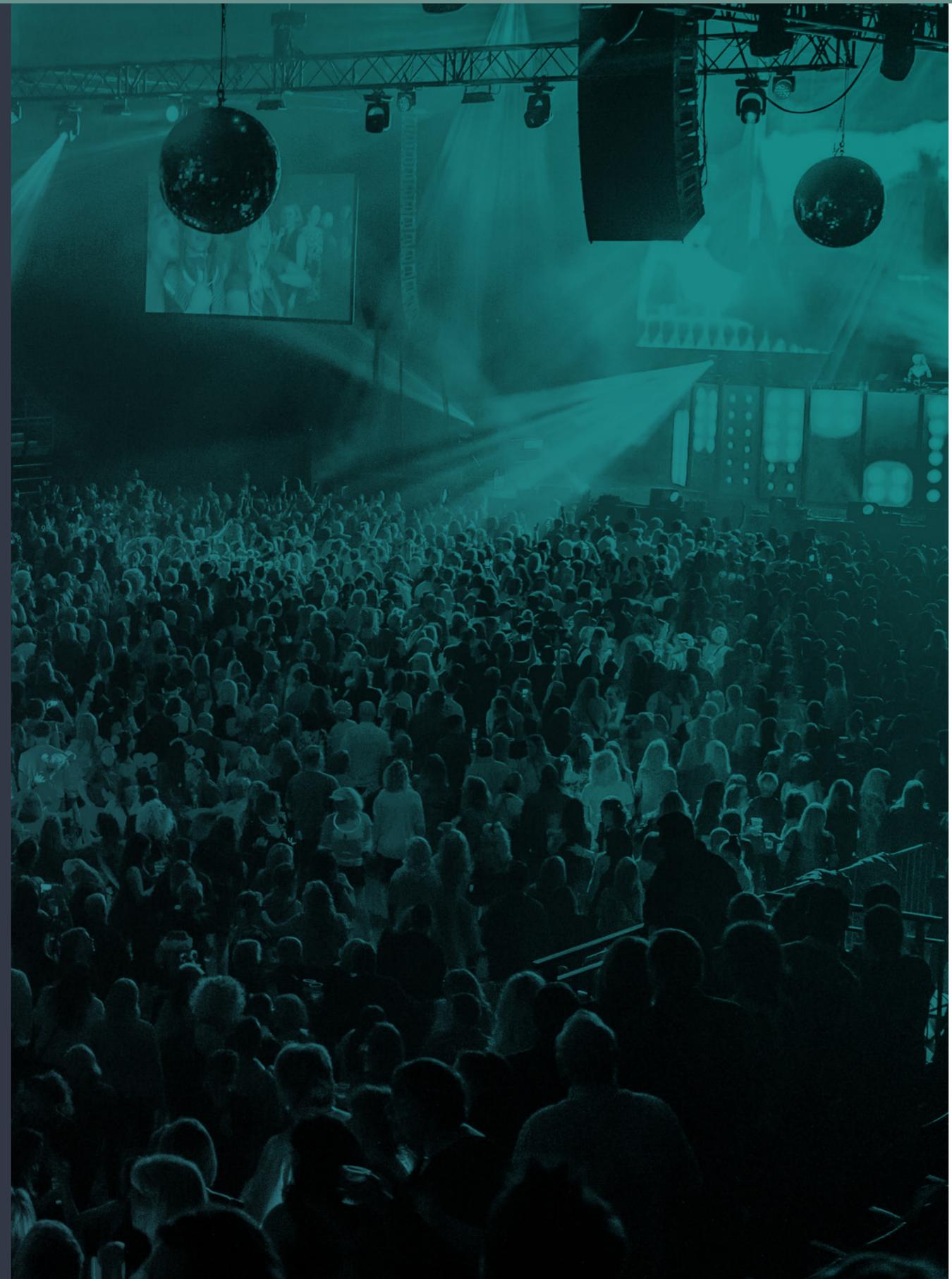
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PART 1

VENUE  
GOVERNANCE

# VENUE GOVERNANCE

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# SUSTAINABILITY POLICY & STRATEGY

For arenas to become truly sustainable, it is essential the management team lead the way, implementing initiatives in a fair, transparent, accountable, and responsible manner. A resilient Sustainability Strategy, or Sustainability Action Plan, helps establish a strong foundation for an arena's sustainability success, and it starts with developing a clear Sustainability Policy:

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**Sustainability Policy** - a set of rules, guidelines and practices that a company or organisation follows to minimise its negative impact on the environment and promote sustainable practices.

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**Sustainability Strategy** - a detailed plan that outlines specific actions and goals for a company or organisation to work towards becoming more sustainable.

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Long-term sustainability policies and strategies must be properly planned, financed, implemented and maintained. Sustainability must be embedded into daily operations, and flexible enough to accommodate changes in the long term. An example of a Sustainability Policy and guidance on setting sustainability objectives and targets is available on the AGF Resources site.

Sustainability should always have a place on the agenda:

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- ✔ Clearly define the boundaries of your Arena's Sustainability Policy - what is included and what is not.

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- ✔ Include all areas you have definite control over, and be aware of external issues you do not control but that influence and impact your arena.

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- ✔ Align the Sustainability Strategy with the United Nations 17 Sustainable Development Goals (SDGs) - to contribute to a more sustainable and inclusive future while also benefiting their employees and the broader community.

# CHAIN OF RESPONSIBILITY

- ▼ To bring about change, all of the arena's relevant stakeholders should be involved in the Sustainability Strategy, including the CEO, members of the board, staff, promoters, audiences, contractors and suppliers.
- ▼ Sustainability requires defined leadership, open communication and teamwork.
- ▼ Ultimate responsibility for directing and achieving the Sustainability Strategy lies with top arena management.
- ▼ A dedicated Sustainability Manager or Sustainability Team should be appointed to drive strategy and monitor progress.
- ▼ If budgets don't allow for dedicated resources, a cross-departmental sustainability working group can be set up, and a member of the group can be nominated to act as Sustainability Manager.
- ▼ The Sustainability Manager and team members that take responsibility for sustainability actions within the arena, such as monitoring energy use, upgrading systems, carrying out surveys, etc. must be given time and resources to do the work.
- ▼ To incentivise the team, managers can nominate sustainability champions or implement initiatives, rewards, competitions, etc.

## Legislation

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Understanding relevant environmental and social legislation is essential to function legally.

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Ensure you maintain and stay in compliance with all licenses and permits required to operate your arena.

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Keep a register of legislation (manually, or by subscribing to an online legal register), and stay on top of new legislation.

## Finance

It is important that your Sustainability Strategy is adequately financed throughout.

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Consider providing a separate budget for sustainability management and upfront investment for retrofits and upgrades.

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Investigate if the government or other funding bodies in your area are providing grants for sustainability enhancement projects.

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Mitigate risk and save money in the long run by integrating sustainability as a weighting in capital expenditure investments, and factoring in energy consumption reductions when considering replacing equipment or refurbishing.

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Investigate ethical banking, consider changing your banking partner if their policies are not ethical, and investing in financial sectors such as ethical staff pensions.

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By investing a portion of the arena's profits into external biodiversity and social projects, e.g., local community projects or charity partnerships, arenas can create a positive impact on the surrounding environment and society.

# MANAGEMENT SYSTEMS & CERTIFICATION

Implementing a Management System and achieving Certification helps improve reputation, reduce operating costs, and minimise environmental impact.

The International Organization for Standardization (ISO) provide a variety of standards that can help arenas implement management systems e.g. ISO 14001 – Environmental Management, ISO 20121 – Event Sustainability Management, ISO 50001 – Energy Management.





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**Greener Arena Certification** - an action-based programme developed specifically by A Greener Future (AGF), for music, sports and entertainment arenas to recognise and verify their sustainability efforts. By achieving this Greener Arena Certification, arenas gain significant insight and demonstrate their commitment to environmental stewardship and sustainability.

## Sam Booth

Director of Sustainability, AEG Europe,  
when referencing AGF's A Greener Arena Certification:

*"We couldn't ask for a more supportive and knowledgeable partner for our sustainability efforts than A Greener Future. They provide the rigour that is essential for us to chart a solid direction of travel and are a trusted sounding board. As a major player in the event industry we couldn't think of anyone better placed to support the transition to a sustainable future."*

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## John Drury

VP & General Manager OVO Arena Wembley

*"We're delighted to be working with AGF on the Greener Arena Certification process and proud to be part of OVO Energy's net zero commitment. It's vital that we continue to develop and share sustainable solutions within the live industry. Our iconic venue will continue to adopt the most effective strategies – reflecting our own ambition and the growing demands of artists, fans and everyone involved in the live business".*

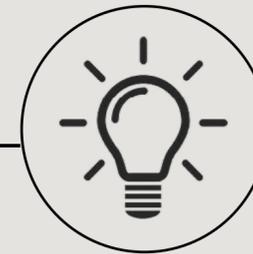
# COMMUNICATING AWARENESS & ACTIONS



**Regularly communicate** about sustainability, **internally** with staff, and **externally** to audiences, promoters, suppliers, contractors, local communities and authorities.



**Provide all staff with training and documentation** regarding the environmental and sustainability policies at the arena.



**Network and share your actions, progress and good ideas** - on your own website, social media, attend and speak at industry conferences, and in interviews.

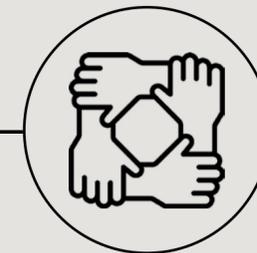


Remember to **discuss the things you tried that didn't work** - you might have taken someone's first steps for them, and we can learn faster from each other's mistakes.

# COMMUNICATING AWARENESS & ACTIONS



Approach your local government to discuss any local **infrastructure gaps** that could make your arena more sustainable - e.g. more sustainable public transport, investment in renewable energy generation, upgrades to mains water and sewage connections, better access to more varied waste treatment facilities, etc.



Join other arena managers and approach political leaders **together**, to push for system change to produce better and more sustainable arenas.

# SUSTAINABILITY INFOBOARDS & INITIATIVES



Create infographics, posters, progress reports, dashboards, or other visual tools to communicate progress on your Sustainability Action Plan and engage with your team and visitors.

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These can be displayed in common areas in offices, or on the company website or intranet. You can use these *posters* as audience, promoters and venue guidelines.

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Implement appropriate methods for everyone to provide opportunities for feedback.

## Infoboard Opportunity

Throughout the following sections, we have highlighted some ideas that could be put on information boards around the arena, as well as on display screens or websites etc, to reinforce your sustainability initiatives to your staff and audiences as part of your Venue Governance initiatives.

### ONE

## ENERGY SAVING

– submeter offices/areas and give incentives to see which office/area saves the most amount against their original baseline month-on-month.

### TWO

## WASTE SAVING

– incentivise staff to reduce the amount they use against their original waste production baseline month-on-month.

### THREE

## REUSE CORNER

Set up a “reuse corner” where staff can bring books, clothes, gadgets, and other unwanted items to exchange for free.

### FOUR

## NOTICE BOARD

Put up a noticeboard where staff and contractors can offer unwanted items free to a good home.

# SUSTAINABILITY MONITORING & REPORTING

- ▼ **The Greenhouse Gas (GHG) Protocol** provides the world's most widely used methodology and framework for categorising emissions and calculating your carbon footprint. The GHG Protocol also serves as the foundation for many reporting frameworks, including those used for **SECR** and **CSRD**.
- ▼ Quoted and Large companies in the UK are required to comply with the **Streamline Energy and Carbon Reporting (SECR)**, and report on GHG emissions from energy and fuel use within their annual reports.
- ▼ **The EU's Corporate Sustainability Reporting Directive (CSRD)** requires large organisations operating in the EU to report sustainability information on an annual basis. CSRD may apply to UK based Arenas if they have EU subsidiaries or are listed in the EU, and if they meet the required size thresholds.
- ▼ While **SECR** focuses primarily on GHG emissions relating to energy consumption, **CSRD** has a broader scope and also requires reporting on water consumption, transportation, waste management, and supply chain emissions.

[Click here for further information from AGF about Carbon Reporting, Reductions and Removals.](#)

# SUSTAINABILITY MONITORING & REPORTING



Monitor manually by collecting data from bills and meters, or use a **Building Management System (BMS)** - a control system that monitors and manages an arena's mechanical and electrical services, and gathers and tracks data.



Sub and smart meters can be incorporated into a BMS to track and measure energy and water use in individual areas.

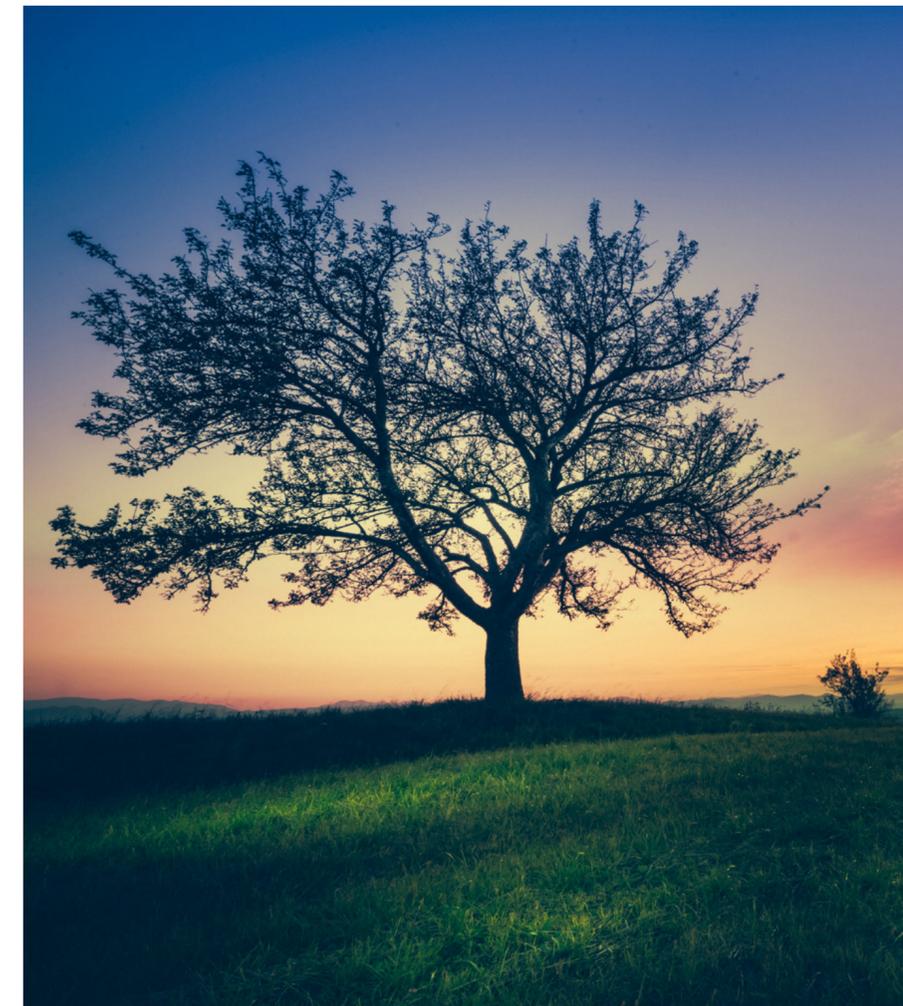


The collected data can then be used to analyse your Arena energy consumption, which is necessary to set targets for energy reductions, identify Key Performance Indicators, and track efficiencies over time.

# HEALTH & WELLBEING

Arenas can prioritise employee (and wider public) health and wellbeing, and incorporate it within their Sustainability Strategy by:

- Implementing wellness programmes, providing access to healthcare services, promoting a healthy work-life balance, addressing occupational health and safety concerns, and creating a supportive work environment.
- Promoting healthy products and services, such as health screenings, exercise classes, promoting sustainable and healthy food options, mental health support, and flexible working arrangements.
- Ensuring gender equality by addressing the unique needs and challenges faced by women and girls, such as providing access to reproductive healthcare, addressing gender-based violence, and promoting menstrual hygiene.
- We're committed to making sure that our solutions are accessible for disabled people, but we also know that there might not be a solution available yet that is both accessible and environmentally-friendly. Please contact the venue to discuss your access requirements



# VENUE FACILITIES

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# BIODIVERSITY

Arenas can support biodiversity in the following ways:

**Infoboard:**

- ✓ The species planted in and around your arena and why
- ✓ Native biodiversity around your arena
- ✓ Methods used to protect & enhance biodiversity around your arena

**Engage an ecological consultant** to do a biodiversity assessment of landscapes around the arena.

**Create green spaces** and enhance external landscaping to encourage biodiversity – plant native wildflowers and trees, create a pond, incorporate bird and bat boxes, and bee and bug hotels.

**Incorporate green infrastructure to building design**, such as greening of roofs, walls, and car parking areas.

**Integrate Sustainable Urban Drainage systems (SUDs) such as bioswales, rain gardens or retention ponds**, to manage surface water on the land surrounding your arena in a biodiversity-friendly way.

**Maintenance:** Avoid pesticides and chemical fertilisers; reduce mowing on grassy areas; leave things slightly wild if possible!

# BIODIVERSITY

Arenas can support biodiversity in the following ways:

**Flora:** avoid artificial plants and vegetation, including artificial lawns. Include native and ornamental plants that don't rely on lots of watering whilst cleaning the air. Ensure any plants used in external landscaping are not invasive species - consult websites such as the **Royal Horticultural Societies guide to Invasive Non-Native Plants**.

**Promote environmental education** and awareness among staff and visitors.

**Support wider biodiversity projects** through donations, or organising staff outings to assist local conservation groups.

**Partner with conservation projects** and promote their efforts to a wider audience through social media, inclusion on your website, or by selling their branded merchandise.

Infoboard:

✓ “Turn Off when Not in Use” signage in offices and at front of house desks, and use desktop screensavers for messaging

✓ Show energy consumption trends on notice boards

✓ Methods used to reduce energy consumption and to generate renewable energy

# ENERGY & POWER



Implement an arena-wide **“Turn-off when Not in Use”** policy.



**Resources and skills:** ensure you can understand the specific requirements of your building and how to operate the resources efficiently.



If you have a **Building Management System**, regularly review the controls, schedules and timings to improve efficiencies.

It is essential to understand your arena’s size, layout and the impact it has on energy conservation and efficiency. Rapidly heating or cooling large areas can have a significant impact on both energy consumption and efficiency.



**Analyse consumption** each month, looking for anomalies which could point to faulty equipment or things being left on.



**Ensure all HVAC** (Heating, Ventilation, Air Conditioning) **and refrigeration systems are as energy efficient** as possible and are regularly serviced. Upgrade systems that are reaching their end-of-life with those containing natural refrigerants.

# ENERGY & POWER



Consider **insulation, zoning** and **smart temperature control systems** to optimise energy usage based on occupancy and specific comfort requirements.



Use **light-emitting diode (LED) bulbs** that are more energy-efficient and have a longer lifespan. When paired with a PIR system they can optimise energy usage by reducing consumption.



Save energy with **passive infrared (PIR) lighting** - using motion sensors to illuminate in-use areas only.



**Thermal imaging surveys** can be used to detect potential issues with insulation and areas where energy is being wasted.



Acquire an **Energy Performance Certificate (EPC)** for your arena if you do not already have one.



**Switch off advertising**, feature lighting and other lighting on external sections of the building when not open to the public or overnight etc

## VENUE FACILITIES

Renewable Energy harnesses clean and sustainable sources to generate electricity, reducing the reliance on fossil fuels and decreasing greenhouse gas emissions. Investigate if your arena has the space and/or infrastructure to:

Facilitate permanent renewable energy systems, such as solar panels, wind turbines, geothermal or hydropower sources, air-to-water heat pumps or biomass boilers.

For permanent car parks, consider investing in Electric Vehicle (EV) charging points from a grid connection, or a solar carport, which provides shade for parked vehicles whilst generating green electricity.

### Energy Management Hierarchy

ENERGY SAVING

ENERGY EFFICIENCY

RENEWABLES

LOW EMISSION

CONVENTIONAL



Change over to an accredited 100% green-energy supplier for grid power supplies or switch to a green grid tariff that directly supports renewable energy projects.



Switch appliances from natural gas to electric as much as where practicable, and replace fossil-fuel generators or boilers with sustainable fuel or renewable energy equivalents.



Consider upgrading plant, machinery and fleet to EVs where possible.



Choose electronic products that carry an environmental label based on the product's environmental impact throughout their life cycle, such as those labelled with the Energy Star or certified by the Electronic Product Environmental Assessment Tool (EPEAT).

## Waste Management Hierarchy



# MATERIALS SOURCING

Materials that arenas, subcontractors, and visiting promoters / production teams purchase or hire, may have an impact depending on how and where they are sourced, used and disposed of. Give preference to goods and services that have environmental and ethical credentials, and are good value for money without detriment to quality and standard.

To ensure that environmental, social and economic factors are considered in the procurement process, implementing a Sustainable Procurement Policy can ensure responsible choices by committing to:

- Minimising the amount of new materials purchased.
- Hiring, leasing or borrowing durable and reusable materials.
- Prioritising products with lower environmental impacts.
- Ensuring the product's lifespan has been considered, and that onward use (repairability, recyclability) has been identified.
- Sourcing materials which have been refurbished, repaired, or remanufactured.
- Requiring suppliers to provide proof of sustainable and ethical sourcing.

# WASTE & RESOURCE MANAGEMENT

To effectively prevent, minimise and manage waste, you should develop a Resource and Waste Management Plan (RWMP):

Identify types of waste (aka, waste streams - paper, organic, plastics, chemicals etc) that are generated in each area.

Back of house areas may need more segregation as more waste streams often created there.

Individual waste management companies and local authorities have different techniques and strategies for sorting waste - speak with yours and find out exactly how many waste types they take separately and what can go in each bin.

Always consider responsibly sourced products, reducing food wastage and food miles, and food donations for surplus in your front of house catering plans

## Infoboard:

- ✓ Pictorial Signage to explain the waste segregation system in place
- ✓ The steps the arena is taking to implement the waste management hierarchy and principles of circular economy
- ✓ Waste production trends

# WASTE & RESOURCE MANAGEMENT

Your RWMP should outline strategies and actions to improve resource management and reduce waste. **Consider initiatives like:**

Waste reduction  
campaigns

Reuse & composting  
programmes

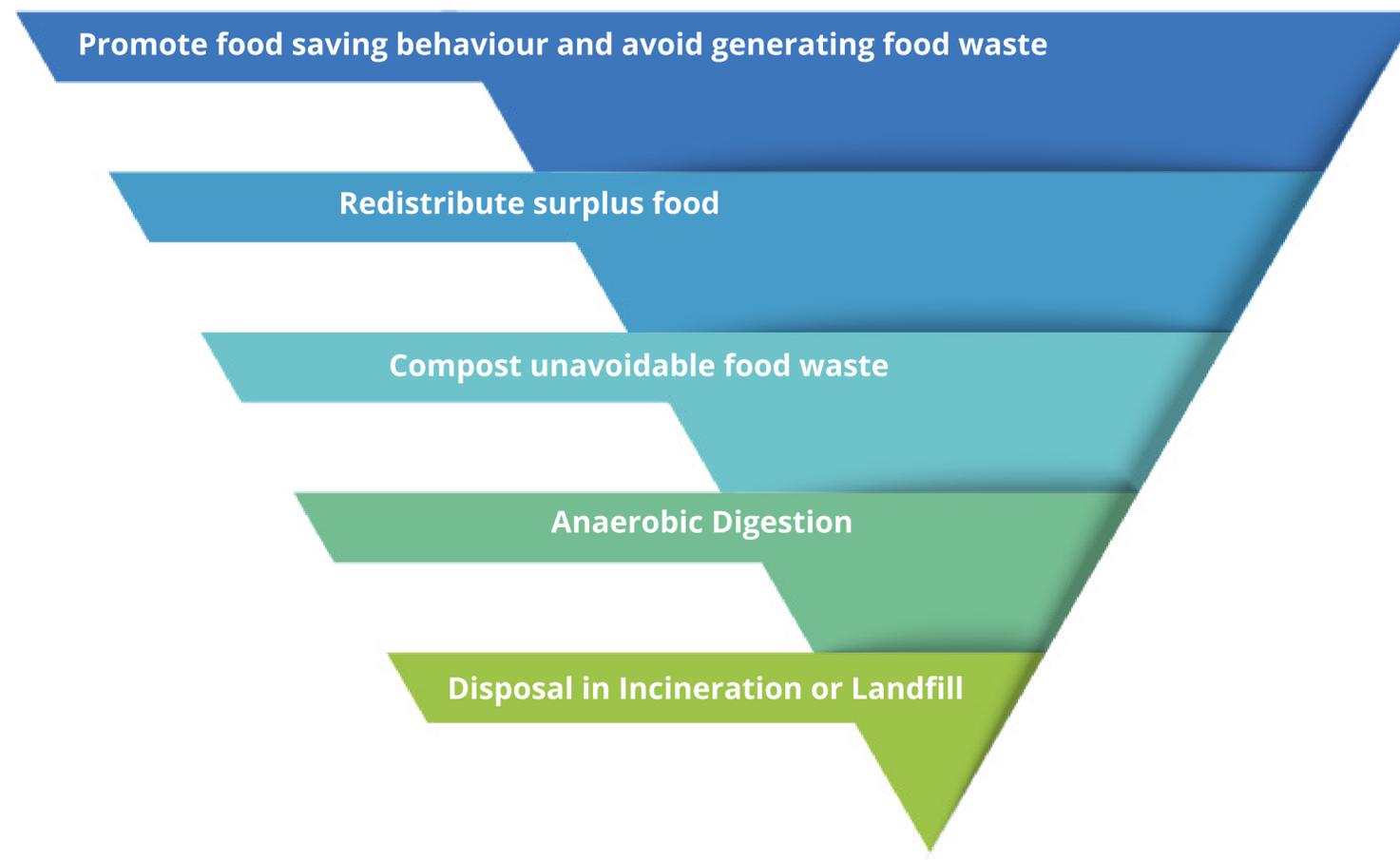
Sustainable  
procurement policies

The RWMP should indicate the timelines, responsible parties, and resources needed to execute the strategies and actions, and needs to be monitored with progress towards the goals tracked. Regularly review and update your plan to reflect changing circumstances, new technologies, best practices in resource management and waste reduction, and to ensure the plan remains relevant and effective over time.

# WASTE SEGREGATION & STORAGE

- ▼ Have dedicated areas for waste segregation and storage and ensure that they are easily accessed.
- ▼ “Waste” collected from one area might be a potential resource in another, so identify and separate anything that might be reusable before being put into a bin.
- ▼ Place bin stations in accessible locations - including offices, production areas, dressing rooms, food courts, car parks and public concourse areas.
- ▼ Bin signage should have both pictures and text and clearly indicate what kinds of waste goes where.
- ▼ Colour coding bins and signage is an effective way to quickly help people learn the waste systems.
- ▼ Ensure all permanent and temporary staff are trained in the waste management system.
- ▼ Provide adequate ashtrays and vape collection bins in designated smoking areas.
- ▼ For waste management on public land, meet with the local authority to discuss waste collections external to the arena, and to find solutions that work best for both parties.
- ▼ Inspect bins periodically and increase or decrease the number of bins types and locations as required.
- ▼ Keep a register of the type and weight of waste streams your arena produces, the companies who collect each waste stream, and the authorised facilities that your waste is brought to for further treatment.
- ▼ A note to water provision: having water refill stations both back and front-of-house encourages reusable water bottles, reduces the consumption of single-use plastic bottles, and ensures attendees have easy access to clean and safe drinking water at the arena.

# SPECIFIC WASTE STREAMS



Food Waste Hierarchy, showing, from top to bottom, actions that can be taken at different stages, from the most to the least preferred option; prevention, re-use, recycle, recovery and disposal.

## Food & Compostable Waste:

- Avoid excess waste by implementing portion controls and storing leftovers properly.
- Donate leftovers to local food banks or organisations to distribute to those in need.
- Use reusable cutlery and dishes instead of disposable. Where disposable is the only option, ensure they are certified 100% compostable when matched with an appropriate composting facility.
- Canteens, restaurants and food courts that use compostable dishes and cutlery may require more food/compostable bins than those that use reusable or have table service.
- Ensure all compostable waste is diverted to a licenced composting facility, or if composting is not an option, see if there are options to send organic waste to an anaerobic digester.

DEALING  
WITH  
SPECIFIC  
WASTE  
STREAMS

## Hazardous Waste:

- Ensure there are dedicated receptacles and areas back of house for the safe storage of hazardous wastes, including Waste Electrical and Electronic Equipment (WEEE), lightbulbs, batteries, oil-based paints, spray paints and medical waste.
- If you are unsure if a waste is classified as hazardous or not, check with your waste collector before putting it into a bin.



## VENUE FACILITIES

### Infoboard:

✓ The water management hierarchy and the water saving devices that the arena has installed

✓ Show water use trends on notice boards

*Effectively monitor water usage, identify leaks, and take proactive measures to conserve water and mitigate loss, by:*

- **Using water-efficient fixtures** and appliances where possible.
- **Carrying out regular inspections** and maintenance of your water system.
- **Visually check for signs of leaks or water damage** - dripping taps, plumbing leaks, damp spots on walls or ceilings, and any unusual water flow or sounds - fixing leaks and replacing pipes or worn-out washers and seals.
- **Install water meters to measure consumption**, track water usage over time, and identify any unusual patterns.
- **Regularly review bills** to monitor for any unexpected increases in usage or costs, that could indicate hidden leaks.
- Automated water monitoring systems use sensors and smart technology to track water usage in real-time, providing immediate alerts for abnormal usage or potential leaks.

# WATER USE & MANAGEMENT

- **Promote water-saving behaviors** among employees and provide training on how to detect and report leaks. Encourage a culture of water stewardship in the workplace.
- **Collect and reuse rainwater** from rooftops via gutters, downspouts and filters - and direct it into tanks for later use.
- **Consider a greywater recycling system** - to collect and treat used water from sinks, showers and laundry systems - removing contaminants and making it suitable for irrigation, toilet flushing, and other non-potable uses. To make greywater safer for reuse, **use eco-friendly cleaning products** in all sinks, showers and laundry systems.
- **Properly dispose** of any wastewater that cannot be reused - either directly into the mains sewer, or removed from temporary storage systems such as portaloos or septic tanks by a licensed contractor.

Promote water saving behaviour

Reduce water demand

Reuse rainwater

Reuse greywater

Dispose of  
wastewater

## Indoor

- Taps and toilets fitted with motion sensors.
- Low-flow showerheads and taps.
- Dual-flush toilets have a reduced flush for liquid waste and a full flush for solid waste.
- Vacuum toilets use air pressure (not water) to remove waste.
- Waterless urinals use a specially designed trap system and an eco-friendly liquid sealant to prevent odours.
- Water-efficient washing machines and dishwashers use less water and less energy
- Tap aerators control the amount of water flow by mixing water with air, reducing water use whilst maintaining pressure.

## Outdoor

- Smart irrigation systems use sensors, weather data and soil moisture levels to determine optimal water needed
- Sensors for sprinkler systems detect rainfall and shut off irrigation systems when rainfall is sufficient.
- Drip irrigation systems deliver water directly to plant root zones, minimizing evaporation and runoff.

# WATER SAVING DEVICES

# CONTRACTOR & SUPPLIER MANAGEMENT

-  **Choose** contractors who prioritise sustainability in their operations, and ask for a copy of their policies as part of selection.
-  **Define** your sustainability expectations from the beginning and make sure they understand these expectations before starting work, such as requirements for waste management, energy efficiency and water conservation.
-  **Provide** training, documentation or workshops on energy efficiency, sustainable construction techniques, other practices
-  **Monitor** contractors' sustainability performance by collecting data on energy, water and waste factors, and use the data to identify areas for improvement and provide feedback on performance.
-  **Incentivise** and reward contractors who consistently meet or exceed sustainability targets.
-  **Collaborate** on sustainability initiatives, and encourage contractors to share their own ideas, to think creatively and innovatively to explore solutions that have less environmental impact.

PART 3

PROMOTERS &  
PRODUCTION

PROMOTERS & PRODUCTION

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- › Venues No Idling Policy adhered to by all vehicles.
- › Trucks should use external AC power (shore power) to operate appliances when parked.
- › Touring drivers can take extra training in fuel-efficiency driving.

TRUCKS &  
PARKING  
FACILITIES

- › Before bringing anything to the venue, Promoters should confirm if the required plant and rigging units, or permanent installations such as mothergrids, are available in-house.
- › Hiring from local suppliers instead of trucking in units from afar.
- › Use Electric Vehicles as much as practical, e.g. electric forklifts, cherry pickers, scissor lifts etc.

PLANT &  
MACHINERY

- › Use local crew/companies where possible, and minimise crew numbers if practical - "less crew - longer shout".

CREW  
/SECURITY  
/COURIERS  
/RUNNERS

# SUSTAINABILITY ACTIONS

## Touring & Residency

- Try and travel via land and sea instead of air as much as is practically possible.
- For ground transport - hire hybrid, HVO biodiesel and/or EVs, also walk or bike where possible for staff.
- Minimise HVAC (Heating, Ventilation, AirCon) hours as much as possible, and only use it on buses / trucks when shore power has been connected.
- Align waste separation on board tour buses to that of the arena, to avoid contamination of the arena's waste streams.

- Use water fountains & pumps for refillable water bottles where possible, to avoid single use bottles.
- Use reusable glasses/cup, dishes and cutlery on board tour buses, together with eco-friendly cleaning products.
- For laundry, use eco-spin cycles with low temperature and eco-friendly cleaning products.
- Minimise printing to save paper, use mobile apps where possible.
- Reuse signage from other venues and tours Use local accommodation if staying offsite.

## Audience

- As part of early conversations with promoters and agents, discuss options for fan travel, local accommodation or ticket packages to encourage a greener travel choice for audiences.
- Try and collect key audience data - modes, distance, and from what cities/location, being the main ones.

# ENERGY & POWER

*Consider the following initiatives to reduce energy consumption and power-related impacts:*

▼ **Meter** to determine accurate power draw for any show/stage construction and technical production (lights, sound, AV etc.). This helps ensure the correct draw is specified on riders, monitored throughout the show, and reviewed against predictions.

▼ If temporary power systems are required for the show, **ensure generators are correctly sized where permitted..**

▼ **Use HVO fuels** where possible, or **invest in battery powered backup generators** that combine renewable energy systems with battery storage.

▼ **HVAC units:** only use when needed backstage, ensure all units are switched off as soon as no

longer required, and liaise with the venue on the safe management of any air handling and CO2 build up within the main performance space.

▼ **Light shows:** lasers are light weight and low draw. Though there are potential safety concerns so must be operated by trained, competent professionals.

▼ **Lighting:** LED should be used in all lighting rigs.

▼ **Batteries:** Use rechargeable as much as practical for battery powered tools/equipment. If non-rechargeable batteries are used, ensure after use they are separated for proper recycling (read more in Material Sourcing and Waste Management).

# SPECIAL EFFECTS (SFX)

**Lighting effects** using intelligent lighting fixtures can be considered **relatively environmentally friendly**. These are designed to be energy-efficient, using LED technology that consumes less electricity, and have longer lifespans, reducing the frequency of replacement and waste:

- **Lighting Effects:** Intelligent lighting fixtures, lasers, and strobe lights enhance the atmosphere and create dynamic displays.
- **Projection Mapping:** Using projectors to display images or videos onto large surfaces, such as stages or screens, to create captivating visual displays.

**Pyrotechnics and CO<sub>2</sub> cannons** are typically considered the **least environmentally friendly**:

- **Pyrotechnics:** Fireworks, flame projectors, and sparklers, which can release pollutants into the air.
- **CO<sub>2</sub> Cannons:** Devices that shoot bursts of compressed carbon dioxide (CO<sub>2</sub>) gas, which is a greenhouse gas that contributes to climate change.

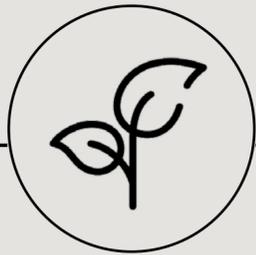
**Confetti and streamer launchers create the most waste**, typically involving the use of paper or plastic, which are often single-use, not easily recyclable, and can end up as litter. Some entertainment arenas have started using **biodegradable or recycled confetti and streamers**, which can help minimise waste and reduce the environmental impact.

**NAA arenas do now not permit non-recyclable confetti!**

# FOOD & BEVERAGE

Visiting productions should be asked to align with the arena's Food & Beverage Policy. A plant-based diet has several benefits, such as reducing greenhouse gas emissions, conserving water, preserving habitats and biodiversity, promoting sustainable food production, and can also improve personal health.

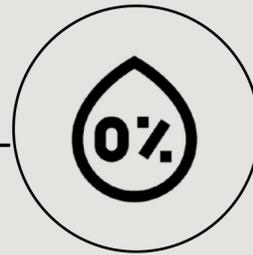
*For backstage touring crew catering, ask promoters to consider the following:*



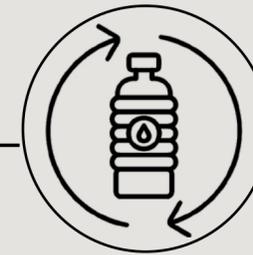
Supplement animal and fast food items with **plant-based options**, including tofu, tempeh, seitan, and plant-based proteins.



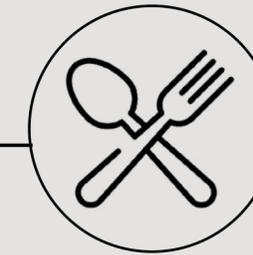
Ingredients should be **seasonal, local, organic, whole** and **ethically sourced** as much as possible.



Offer a variety of dietary options to accommodate different preferences, needs, and lifestyle choices - including **vegan, gluten free, dairy-free, sugar-free and alcohol free**.



Provide **potable water, refillable water bottles and reusable cutlery and crockery** for artists and crew.



Use **reusable condiments, packaging, and serveware** to avoid single-serving sachets and single use serveware.



Use **Offer crew catering** as a pre-book option to reduce potential food waste.

# MATERIALS SOURCING & WASTE MANAGEMENT

Visiting productions should be asked to align with the Arena's Procurement Policy and Waste Management Plan



- Promoters should consider the lifecycle of all materials brought on tour including their production, transportation, use, and final disposal.
- Align waste separation on board tour buses and while building and striking staging to that of the arena, to avoid contamination of the arena's waste streams.
- Reuse signage from other venues and tours.
- Phase out polystyrene, PVC and tropical hardwoods from staging materials and decor.
- Use water fountains for refillable water bottles where possible, to avoid single use bottles.
- Use reusable glasses/cup, dishes and cutlery on board tour buses, together with eco-friendly cleaning products.

# ARENAS CAN ADVISE PROMOTERS / PRODUCTION...

Venue to specify rider, and advise promoters, touring and production teams of the arena policies, facilities, restrictions and requirements such as:

## ONE

Restrictions on materials, for example, on single use plastic, no non-recyclable confetti allowed in NAA venues, etc

## TWO

Noise monitoring systems in place and any limits - e.g. no loud bangs and adhere to the venue curfew

## THREE

Light pollution controls or limitations – mitigate impact by using LEDs or low wattage bulbs

## FOUR

Any Electric Charging (EV) points, and providing information on type, capacity, quantity, location etc.

## FIVE

Availability of a permanent Mother Grid and Catwalk to reduce the need for mobile plant and machinery.

# ARENAS CAN ADVISE PROMOTERS / PRODUCTION...

## SIX

If drivers receive **waste welcome packs**, e.g. instructions on bin colour/ types and how to match the venue's waste plan.

## SEVEN

Onsite cleaning and sanitation facilities, and any **kitchen / catering equipment / facilities** they have in house

## EIGHT

**The waste management system** - and whether waste brought to the venue must be removed to the venues defined waste streams or removed responsibly from site by event production.

## NINE

If they have **renewable energy generation** systems onsite.

Water use, energy use and waste production should be monitored by the arena for individual shows and reported back to promoters or production teams, especially if there is excessive use. Sharing this information helps to educate the visiting production teams and can result in the shows becoming more sustainable in the long term.

# MATERIALS SOURCING

## - MERCHANDISE

Consider the following measures when sourcing merchandise for your arena:

- ▼ **Digital merchandise** options such as digital gift cards or online downloads.
- ▼ **Replace single-use** - such as water bottles, or coffee mugs - with **reusable** options, and items that are easily recyclable at the end of their lifespan.
- ▼ Look for **sustainable materials** - e.g. organic cotton, bamboo, hemp, recycled or recovered plastic or paper - that have a lower environmental impact.
- ▼ Look for **certifications or labels**, such as organic, Fair Trade, or Forest Stewardship Council (FSC) ©, to ensure merchandise meets credible sustainability standards, is produced under fair trade or ethical practices, and workers are paid fair wages and provided with safe and healthy working conditions.
- ▼ Consider **minimal or eco-friendly packaging**, and avoid excessive packaging.
- ▼ Focus on **small-batch** or **limited-edition** merchandise. And undated / non-event-specific, so can be reused.
- ▼ **Source merchandise locally**, which supports local artisans and businesses, and reduces the transport carbon footprint.
- ▼ Choose merchandise that **raises awareness or supports** social and environmental causes.
- ▼ There are also new services such as on-site t-shirt printing of 2nd hand t-shirts to consider.
- ▼ **And what quantity or merchandise is needed?**

# MATERIALS SOURCING

## - HANDOUTS/GIVEAWAYS

*For both arenas and promoters, instead of simply of simply giving away items or handouts, reduce materials while still creating a positive audience experience by:*

- ▼ **Offering digital alternatives** such as e-books, digital coupons, or online resources.
- ▼ **Providing experiences or opportunities** for attendees to engage with your arena, such as hosting interactive activities, games, or challenges to win prizes or rewards, or offering access to exclusive content, workshops, or networking.
- ▼ **Educating and raising awareness about important issues** or topics by providing informative resources that align with your arena's mission and values.
- ▼ **Consider donating** the funds that would have been spent on giveaways to a charity or not-for-profit.
- ▼ If giveaways must be considered, **target them to specific individuals or groups** who are more likely to benefit from them, such as through contests, surveys, or a selection process.
- ▼ Customised or personalised items are more meaningful and likely to be appreciated, such as personalised merchandise, notes, or tailored recommendations. Opt for sustainable or reusable items that have a longer lifespan such as reusable water bottles, tote bags, or eco-friendly stationery.

PART 4

AUDIENCE  
MANAGEMENT



NAA  
GREEN  
GUIDE



AUDIENCE  
MANAGEMENT

Consider implementation and communication of initiatives and information, about how your arena encourages more sustainable travel:



Encourage the use of public transport, car sharing, low emitting options, walking or cycling - via all available means of communication, including social media, website, emails, and accompanying e-tickets etc.



Engage with transport companies to arrange offers and links for cheaper public transport with ticket purchases and to extend running times until after event ends



For arenas that are more difficult to access via public transport, encourage lift sharing.



Promote local transport options ahead of parking and consider implementing or increasing car parking charges to disincentivize car use. Disabled people who need to drive should not be asked to pay any increased car parking charges.



Offer incentives for using lower carbon means of transport such as a free drink on arrival.



Coordinate promoting these options with the promoters and ticketing companies' own engagement too.



Collecting audience travel data is important to adapt for future efficiencies. Offer incentives for completing pre- and post-show transport surveys, such as a chance to win free tickets to an upcoming event, or exclusive event content.



Communicate survey results to visitors and highlight the ways in which their choices benefit them and the environment, such as improved local air quality by reducing traffic on local roads.



Offer EV use benefits, such as discounted parking rates and charging stations for EV use compared to a conventional car.

# FOOD & BEVERAGE

Develop an arena-wide Sustainable Food & Beverage Policy, with an associated action plan, to reduce the environmental impact of the food and beverage offerings available:

## Ingredients and Menus:

Supplement animal and fast food items with **plant-based options**, including tofu, tempeh, seitan, and plant-based proteins. Ingredients should be **seasonal, local, organic, whole and ethically sourced** as much as possible.

Offer a variety of dietary options to accommodate different preferences, needs, and lifestyle choices - including **vegetarian, vegan, gluten free, dairy-free, sugar-free and alcohol free**.

Providing potable water to public is a licensing requirement. Provide **potable water, water refill stations for the audience, refillable water bottles and reusable cutlery and crockery where appropriate**.

Include nutritional labelling on food options throughout the arena to encourage the audience to make healthier choices.

Include carbon labelling on food options as this can encourage the audience to make lower impact choices.



# FOOD & BEVERAGE

## Serveware & Condiments:

- ✔ **Eliminate single use plastics** throughout the arena and replace them with compostable or reusable options.
- ✔ **Use reusable condiments, packaging, and serveware** to avoid single-serving sachets and single use serveware.
- ✔ Implement a **reusable cup system** for bar service.

### Infoboard:

- ✔ The impact of animal products compared to plant based products in terms of water use, land use and Greenhouse Gas emissions.
- ✔ An explanation on carbon labelling on food options.
- ✔ A map showing the location of water refill stations, and details of how many plastic bottles have been avoided by having a water refill station.

# MATERIALS SOURCING

## - TICKETS AND WRISTBANDS

*Discuss with the promoter and ticketing provider your options to:*

Explore going paperless and use electronic tickets (e-tickets) instead of traditional paper tickets, though do consider potential limitations of paperless depending on the events' audience demographic - some customers do not have smartphones or devices to store their e-tickets.

When sourcing wristbands, inquire about the materials used and if they are recyclable or reusable. Many suppliers offer eco-friendly options to meet the demand for sustainable event solutions:

- Recyclable wristbands - made from materials such as paper, Tyvek, or bamboo - can be recycled with other paper-based products after use, reducing waste and environmental impact.
- Reusable wristbands - made from durable materials like silicone, fabric, or eco-friendly fibers - can withstand multiple uses, be removed and worn again for different events, and distributed to new attendees.
- Reusable wristbands are a more sustainable as they reduce waste and can be used for extended periods.
- Radio Frequency Identification (RFID) wristbands contain a small chip that can be used for access control, cashless payments, attendee tracking, enhanced event management and security, and can be made from recyclable materials.

# MATERIALS SOURCING

## - HANDOUTS/GIVEAWAYS

*For both arenas and promoters, instead of simply giving away items or handouts, reduce materials while still creating a positive audience experience by:*

- ▼ **Offering digital alternatives** such as e-books, digital coupons, or online resources.
- ▼ **Providing experiences or opportunities** for attendees to engage with your arena, such as hosting interactive activities, games, or challenges to win prizes or rewards, or offering access to exclusive content, workshops, or networking.
- ▼ **Educating and raising awareness about important issues** or topics by providing informative resources that align with your arena's mission and values.
- ▼ **Consider donating** the funds that would have been spent on giveaways to a charity or not-for-profit.
- ▼ If giveaways must be considered, **target them to specific individuals or groups** who are more likely to benefit from them, such as through contests, surveys, or a selection process.
- ▼ Customised or personalised items are more meaningful and likely to be appreciated, such as personalised merchandise, notes, or tailored recommendations. Opt for sustainable or reusable items that have a longer lifespan such as reusable water bottles, tote bags, or eco-friendly stationery.

**Infoboard:**

✓ Pictorial Signage to explain the waste segregation system in place

✓ A map illustrating the location of bins around the arena

✓ Signs to inform audiences that it is not ok to put cigarette butts or vapes into bins or drainage systems

# WASTE MANAGEMENT

## Bins & Signage:

- Aim to provide a three-bin system to separate General Waste, Mixed Dry Recycling and Organic Waste (food and compostables)
- Ensure the number of bins are adequate to the number of ticket holders, and that larger crowds are adequately catered for.
- Provide bins outside the arena for the audience to use while waiting in queues, and educate people by having info boards detailing your waste management plan, i.e. the different bin type colours and what goes in each.
- All waste separation systems need to have adequate, visible, clear signage.

- Consider implementing QR codes on bins so audience members can scan to see if that is the right option.
- Ensure event stewards are informed about the waste plan and that they help customers to use the bins correctly.

## Smoking & Vaping:

- Provide enough ashtrays in smoking zones, with clear signage, and inform audiences that putting unextinguished cigarettes into bins, the floor, or drainage systems isn't permitted.
- Provide an adequate number of dedicated disposable vape bins - these are electronic waste and once discarded, must be separately collected in the same way as batteries. Have adequate signage to inform audiences that disposable vapes must not be placed in the general waste or mixed recycling bins.

# CARBON REMOVAL FOR CUSTOMERS

**Infoboard:**

- ✓ Information on Carbon Removals and Climate Change.
- ✓ Details of the Carbon Removal projects that your arenas has chosen or partnered with.
- ✓ Carbon removal trends: With your help we have removed X tonnes of Carbon, help us to reach Y tonnes by next year!"

Carbon removal refers to technologies, practices, and approaches that remove and durably store carbon dioxide (CO<sub>2</sub>) from the atmosphere. This is specifically different to “offsets” which could refer to avoidance of future emissions. By offering carbon removal to customers in addition to carbon reduction measures, you can help them take responsibility

for their own emissions and support projects that remove greenhouse gases from the atmosphere. It is important to provide clear and easy-to-understand information on how the programme works, the projects supported, and the environmental benefits of emissions removal. Carbon removals should come only after all available decarbonisation measures.

**Educate customers firstly about the importance of reducing emissions,** and then carbon removals and their potential impact in mitigating climate change.

**Offer opportunities to fund carbon removal programmes** at the point of ticket sale, pre, and through pre and post event comms.

**Partner with established and credible carbon removal providers** to access a wide range of high-quality projects. These providers will handle the process of calculating emissions, purchasing and retiring credits, and providing documentation.

# CARBON REMOVAL FOR CUSTOMERS

If selecting carbon removal projects yourself, **choose ones that are certified and verified** by reputable organisations such as the Gold Standard or Verified Carbon Standard.

**Projects should provide clear documentation** of emissions reductions, rigorous monitoring and verification processes.

Consider **offering incentives** to customers who participate in the carbon removal programme, including discounts or special offers on products or services, or recognition or rewards for their contribution to reducing emissions.

**Measure** the number of customers participating, the emissions removed, the environmental benefits achieved, and regularly **report** the impact of the carbon removal programme to customers and stakeholders to demonstrate its effectiveness.

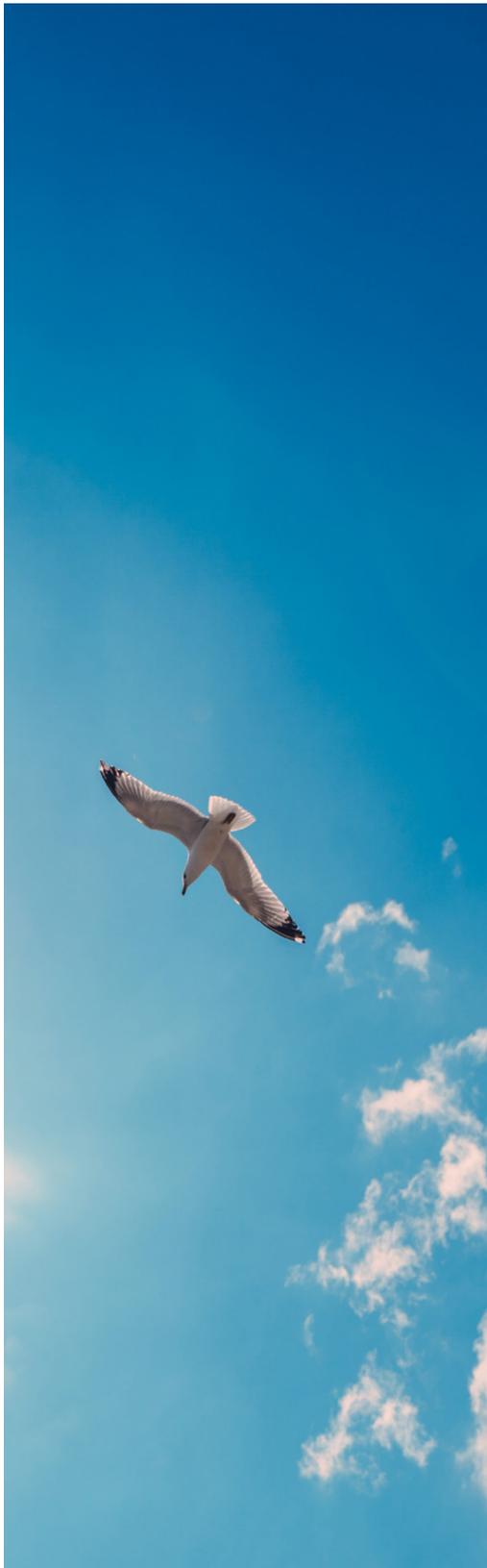
**Carbon removal should not be seen as a substitute** for emission reductions. Efforts should primarily focus on reducing greenhouse gas emissions at source and decarbonisation.

The **long-term effectiveness** and environmental impacts of various carbon removal methods are still being studied and evaluated. It is important to ensure that carbon removal approaches are sustainable, have minimal negative ecological consequences, and adhere to strict regulations and safeguards to ensure their effectiveness.

[Click here for further information from AGF about Carbon Reporting, Reductions and Removals.](#)

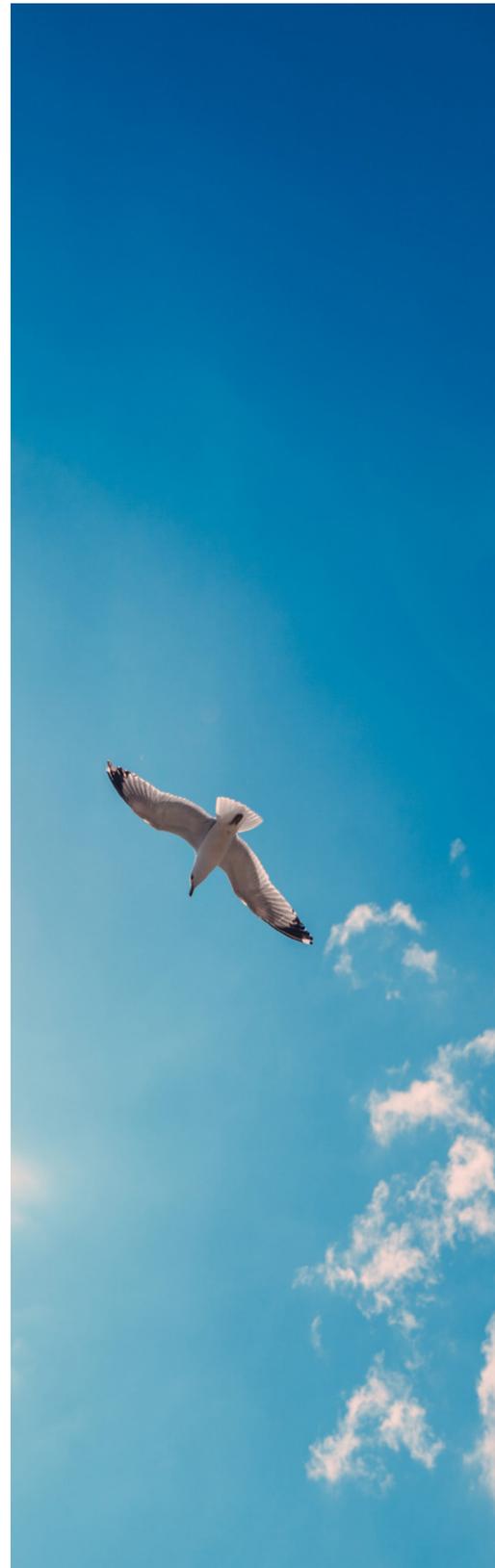
# SUSTAINABILITY COMMUNICATION & EDUCATION

- **Clearly communicate** your sustainability initiatives in a way that is easily understood by your customers - avoid technical jargon.
- **Consider your customer groups** - internal staff, supply chain, event audience - and **tailor messaging** to maximise engagement via social media, newsletters, website updates, blog posts, in-person events, working groups, webinars, podcasts etc.
- **Use successes, case studies, testimonials and storytelling** to highlight positive outcomes and convey your initiatives' importance.
- **Incorporate visuals, infographics and videos** to convey complex information in a digestible format, that illustrates your progress.
- **Encourage customer engagement** and interaction to amplify your sustainability initiatives.
- **Use surveys, polls or interactive content to allow customers to provide feedback**, ask questions, and share ideas and experiences - incorporate valuable suggestions and acknowledge those that help you on your sustainability journey.



# SUSTAINABILITY COMMUNICATION & EDUCATION

- **Collaborate** with other organisations, influencers, or sustainability experts to amplify your message and reach a wider audience. Partnering with like-minded organisations can also help you share resources, knowledge and showcase collective efforts.
- **Help people** understand the importance of sustainability and how they can positively contribute, with educational resources.
- **Provide tips**, ideas, and best practices for sustainable living, with downloadable guides, blog posts, webinars, or workshops.
- **Provide updates** on performance with customers, such as GHG reductions, energy savings, waste or water reduction rates.
- **Include results** of data analysis in communications, such as: “With your help we have reduced general waste by X tonnes...”



# GLOSSARY

▼	<b>Carbon Footprint</b>	<i>- a measure of the amount of GHG emissions released into the atmosphere as a result of the activities of a particular individual, organisation, or community.</i>
▼	<b>Carbon Neutral</b>	<i>- where the amount of GHG emissions released into the atmosphere through the activities of an individual, organisation or community have been balanced by the equivalent amount of GHG emissions removed from the atmosphere. Carbon neutral refers to a state of balance, unlike Net Zero which requires GHG emissions reductions.</i>
▼	<b>Carbon Sink</b>	<i>- anything which absorbs carbon from the atmosphere, often used to refer to ecosystems which capture more carbon than they release as part of their natural processes. Forests, oceans, wetlands, peatlands, soils and the biodiversity that these ecosystems contain act as carbon sinks.</i>
▼	<b>Energy Performance Certificate (EPC)</b>	<i>- a rating scheme which evaluates the energy efficiency of buildings. Buildings are rated between A (Very efficient) - G (Inefficient). The EPC report includes tips about the most cost-effective ways to improve the building's energy rating.</i>
▼	<b>Environmental Aspects</b>	<i>- refers to the elements of the environment that can be impacted by human activities, including air and water quality, waste management, energy consumption and greenhouse gas emissions. By considering and managing these aspects, we can minimize our environmental footprint and promote sustainability.</i>
▼	<b>Fluorinated Gas (F-Gas)</b>	<i>- containing fluorine, these are a family of powerful, potent and long lasting greenhouse gases emitted by human activities, that trap heat in the atmosphere. They can be found in everyday products such as refrigerators or air conditioning.</i>

# GLOSSARY

▼	<b>Global Warming Potential (GWP)</b>	<i>- is a measure of how much heat the emissions of a greenhouse gas will trap over a given period of time, relative to carbon dioxide (CO<sub>2</sub>)</i>
▼	<b>Greenhouse Gases (GHGs)</b>	<i>- are gases that trap heat in the Earth's atmosphere, leading to the greenhouse effect and contributing to global warming. The main GHGs include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and fluorinated gases.</i>
▼	<b>Natural refrigerants</b>	<i>- refrigerant substances that can be found naturally occurring in the environment, and may be used as alternatives to synthetic F-Gas within air-conditioning and cooling systems.</i>
▼	<b>Net Zero</b>	<i>- where the GHG emissions released into the atmosphere through the activities of an individual, organisation, or community have been reduced as close to zero as possible, with any remaining 'unavoidable' GHG emissions removed from the atmosphere.</i>
▼	<b>Sustainability Policy</b>	<i>- a set of rules, guidelines and practices that an organisation follows to minimize its negative impact on the environment and promote sustainable practices. It includes measures to reduce waste, conserve energy, and support social responsibility.</i>
▼	<b>Sustainability Strategy</b>	<i>- a detailed plan that outlines specific actions and goals for a company or organisation to achieve sustainability. It involves implementing sustainable practices, reducing emissions, promoting renewable energy, and addressing social and environmental impacts. It helps ensure long-term environmental and social responsibility. A sustainability strategy can also be seen as a sustainability action plan. It's like a roadmap that guides the implementation of sustainable practices and measures progress towards sustainability objectives.</i>

# ADDITIONAL RESOURCES

*A Greener Future, the team at AGF, founders of A Greener Arena Certification, can provide in-depth measurement, training, certification and consultancy expertise plus membership.*

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## GUIDANCE DOCUMENTS

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*Sustainable buildings and facilities management guidance documents:*

- ACT 1.5: Powering Live Music ([link](#))
- Action Plan for Net Zero Carbon Buildings ([link](#))
- UKGBC Net Zero Carbon Building Framework ([link](#))
- Circular Economy How-To Guide in Built Assets. ([link](#))
- UKGBC – Urban Nature Based Solutions ([link](#))

*Sustainable resource use guidance documents:*

- NAA Green Guide Checklists for Venues, Promoters and Audiences ([link](#))
- Zero Waste Scotland - Procuring for a Circular Economy Guidance ([link](#))
- NZCE Smart Production and Waste Management Guidance ([link](#))
- NZCE Venue Energy Guidance ([link](#))
- NZCE Venue Logistics Guidance ([link](#))

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## RESOURCES & TOOLKITS

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*The following tools and resources can be used to help communicate, inform, or implement sustainable actions:*

- A Greener Tour: Flight Check ([link](#))
- A Greener Tour: Bring Me The Horizon Case Study ([link](#))
- AGF Green Production Rider Template ([link](#))
- AGF Sustainable Food and Beverage Charter ([link](#))
- Artist Green Rider Template ([link](#))
- EAA Arena Sustainability Guidelines ([link](#))
- Julie's Bicycle Sustainable Cup Guidance for Indoor Venues ([link](#))
- Tackling Supplier Emissions Toolkit – Guide for Procurers ([link](#))
- Theatre Green Book Toolkit ([link](#))
- Tyndall Centre - Roadmap to Super Low Carbon Music ([link](#))
- WBCSD - A guide for businesses on carbon removal ([link](#))
- WRAP Food Waste Reduction Roadmap for Hospitality and Food Service ([link](#))
- No Climate Action Without Us – how to include disabled people in event sustainability ([link](#))

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## CARBON FOOTPRINT TOOLKITS

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*The following tools can be used to calculate the carbon footprint of your event, arena and building operations.*

*Carbon footprint tools for buildings / facilities:*

- Carbon Reporting, Reduction and Removal guidance (AGF) ([link](#))
- 2030 Carbon Calculator for Products ([link](#))
- A Greener Arena ([link](#))
- Green Building Calculator ([link](#))

*Carbon footprint tools for organisation and events:*

- A Greener Festival / Event ([link](#))
- Creative Carbon Scotland Carbon Management Toolkit ([link](#))
- Julie's Bicycle Creative Climate Tools ([link](#))
- My Climate ([link](#))
- SME Climate Hub Carbon Calculator ([link](#))
- TRACE Carbon Calculator ([link](#))

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If you have any questions or would like to be involved in the review of this document please contact Lee Chadburn, [lee.chadburn@national-ice-centre.com](mailto:lee.chadburn@national-ice-centre.com)

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**3Arena** Dublin, **Alexandra Palace** London, **AO Arena** Manchester, **Bournemouth International Centre** Bournemouth, **bp pulse LIVE** Birmingham, **Braehead Arena** Glasgow, **Brighton Centre** Brighton, **Co-op Live** Manchester, **Coventry Building Society Arena** Coventry, **first direct Arena** Leeds, **M&S Bank Arena** Liverpool, **Motorpoint Arena Nottingham** Nottingham, **Olympia Events** London, **OVO Arena Wembley** London, **OVO Hydro, Glasgow** Glasgow, **P&J Live** Aberdeen, **Royal Albert Hall** London, **The SSE Arena Belfast** Belfast, **The O2** London, **Utilita Arena Birmingham** Birmingham, **Utilita Arena Cardiff** Cardiff, **Utilita Arena Newcastle** Newcastle, **Utilita Arena Sheffield** Sheffield

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**THANK YOU**

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