THE THEATRE GREEN BOOK

Version 2

Foreword to the Irish Edition of the Theatre Green Book

The Theatre Green Book is being adopted and adapted by theatre communities across the world. Its popularity is proof of its value to those creating, touring and hosting theatre productions. It is a priceless resource.

Here in Ireland, we were extraordinarily fortunate in not having to translate the book into a language other than the one it had been originally written in, so our labour was small in comparison with that of other adaptations. Nonetheless, this adaptation would not have been possible without the assistance and support of a number of people. I would like to sincerely thank **Sinead Wallace** of The Lir Academy in Trinity College and **Mike O'Halloran** from the Department of Drama and Theatre Studies in the University of Galway for their advice, counsel and expertise in adapting the Theatre Green Book to an Irish context. I would like to thank **Irma McLoughlin** and the team at Performing Arts Forum for their patience and support in making this happen, and I would like to thank **Anna Walsh** (Ex PAF) whose idea it was to adapt the Theatre Green Book to an Irish setting.

Most importantly, I would like to extend our warmest thanks to **Paddy Dillon** and **Lisa Burger** for the inspired thinking and dedication that led to the creation of the TGB back in 2021. Since then, with the fervour of evangelists, they have spread the gospel of the **Theatre Green Book** far and wide. We will be eternally grateful.

Catríona Fallon Green Arts Initiative in Ireland

Having used the Theatre Green Book Production Book on two productions now, I've found it to be a practical, workable guide to reducing our impact on the environment. Without stifling creativity, it encourages us to refine our ideas, to change the way we make our work, and make more ethical and greener choices. It has empowered us to do better and shown us the pathway to making theatre more sustainable.

Sinead Wallace Lighting Designer at the Lir Academy



BURO HAPPOLD

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Detailed guidance	

- Tools
- Case studies
- Toolkits

We would like to thank everyone who has supported the Green Book with their time, their commitment and ideas. Their names are in the acknowledgements. And special thanks to the funders of the Green Book, whose names you'll find in the inside back cover.

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Renew Culture The Theatre Green Book

BURO HAPPOLD

Green Book Foreword

Theatre has begun a journey.

It's a journey we must all make – a transition to a world where we live, work, travel, eat and make art without harming the planet we live on. To use Gro Harlem Brundtland's definition of sustainability: to meet the needs of the present without compromising the ability of future generations to meet their own needs.

We need to make this transition urgently. The climate emergency is a crisis, and a crisis is a problem that demands attention now – not next year or the year after. Many theatres have laid credible plans to achieve net zero by 2030.

The good news is that we're already well on the way. Since the Theatre Green Book came out in 2021, networks all over the world, encompassing all varieties of theatre, opera and dance, have joined this collective initiative. We're learning, together, to make theatre sustainable. We're learning how to share that progress with our partners and audiences.

Theatre's core strengths are innovation, courage and creative thinking. They've all fed into this second edition of the Theatre Green Book. With their help, we can make the journey to net zero. We can make theatre today, without compromising the dreams of future theatre-makers.

Lisa Burger and Paddy Dillon, Renew Culture





The climate emergency is the most serious challenge humanity has ever faced.

Theatre can play an essential part in our response.

So theatre must become environmentally sustainable.

A complete method for environmentally sustainable theatre

- A framework for planning sustainability
- Best practice guidance for every area
- Three standards on the path to net zero
- A measurement system to measure progress

based on

• Practical expertise from theatre-makers

• Reliable methodology from environmental sustainability experts

to support

• Work of any kind (theatre, dance, opera...)

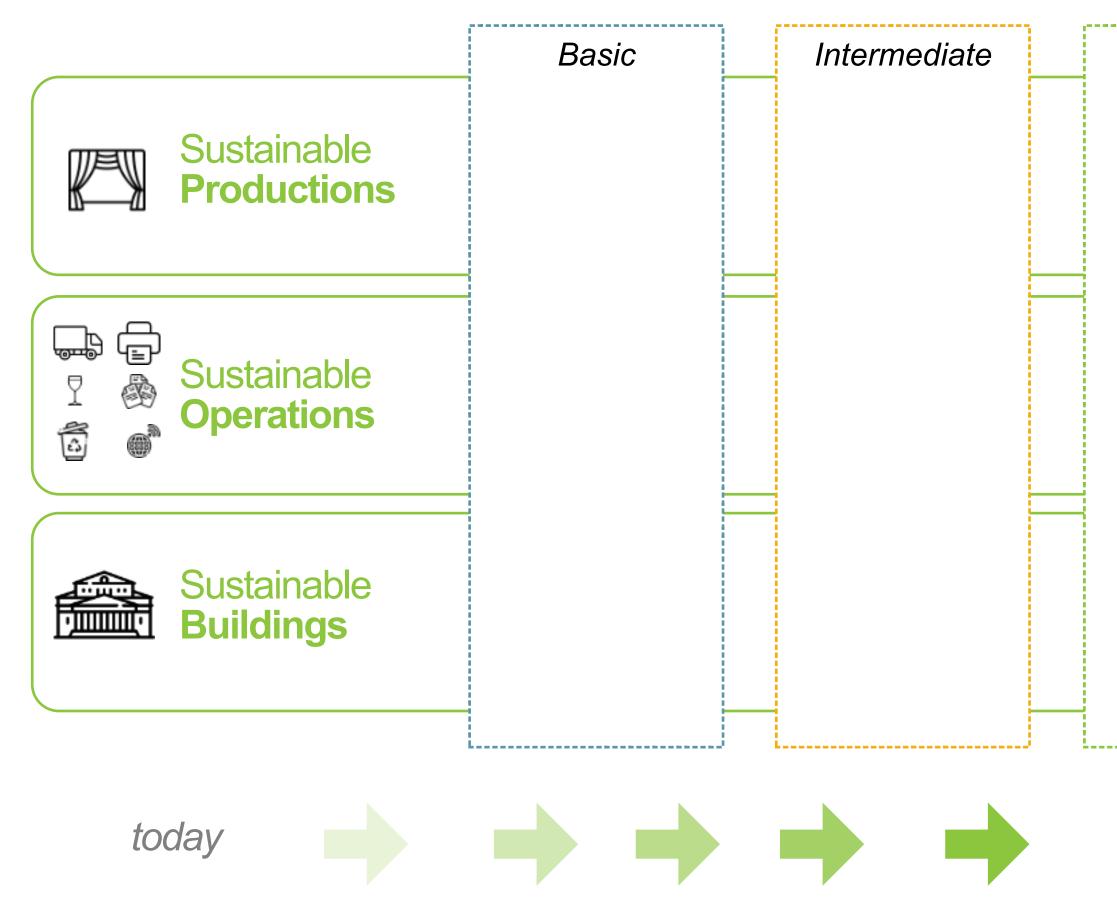
• By anyone (freelancers, companies, theatres, schools...)

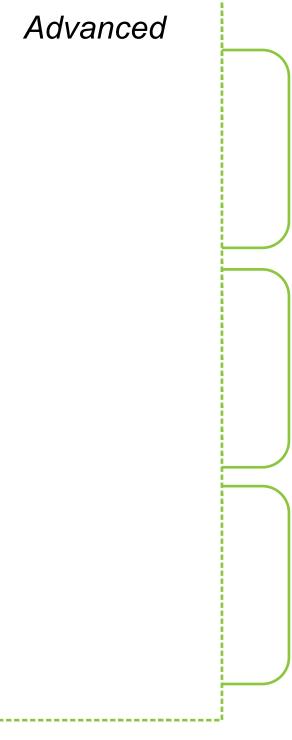
• At any scale

6



Follow three steps for the transition to net zero





net zero

What must we do to make theatre sustainable?

In our PRODUCTIONS, we need to ...



move from a linear to a *circular* economy for theatre

Reuse and recycle









In our OPERATIONS, we need to ...

- **Reduce** how much we use
- Source what we use sustainably
- Reuse or Recycle everything we can



In our BUILDINGS, we need to ...

Insulate so we <u>need</u> less energy

Make our systems **efficient** so we <u>use</u> less energy







Generate **renewable** energy

Support **biodiversity** and use less **water**



How do we start?

Start with a PRELIMINARY commitment

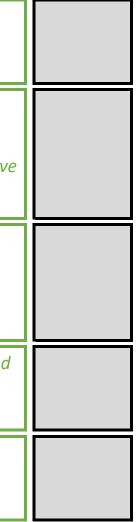
- Commit to becoming a sustainable theatre-maker
- Form a Green Team in your organisation
- Set a timeline to reach the first step, **Basic**

Start with a PRELIMINARY commitment

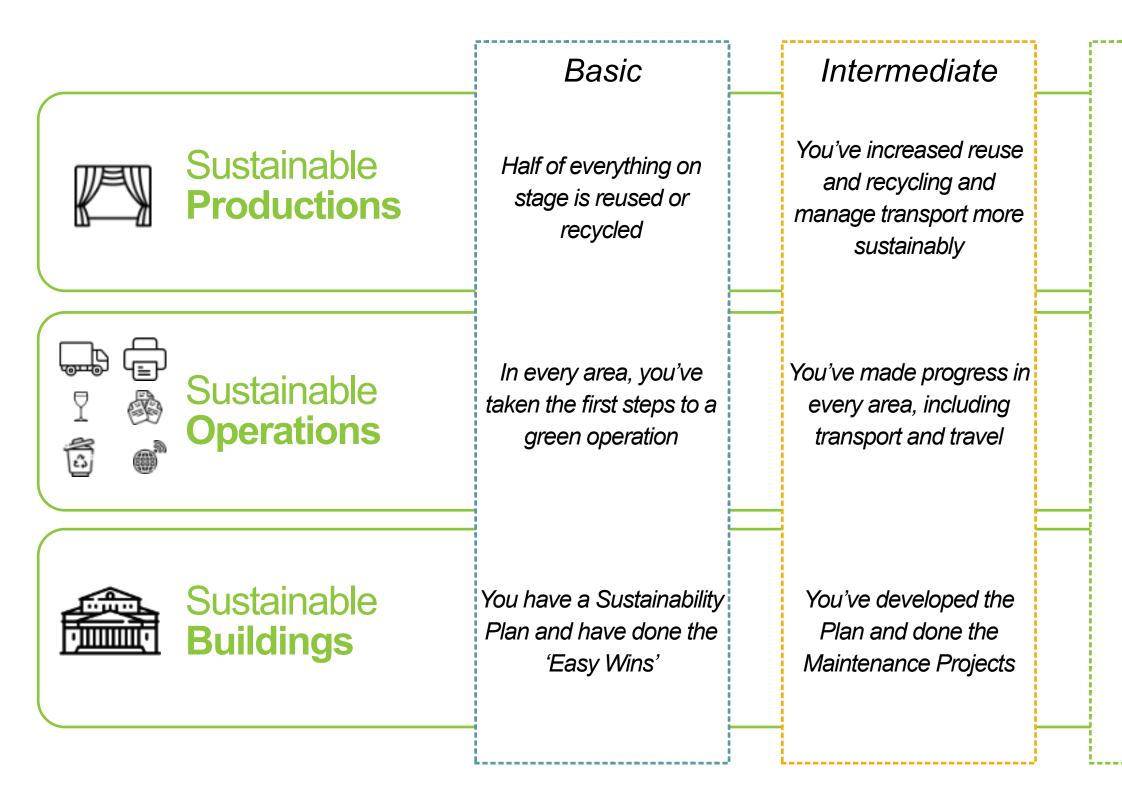
These are the steps you'll need to reach Theatre Green Book **Preliminary**

Preliminary

• COMMIT to reducing your environmental impact, and starting the transition to net zero.	It's essential to make sure your environmental commitment is clear to everyone.
 Establish a GREEN TEAM including a sustainability lead, a member of the senior leadership team, and a lead for each area - Productions, Operations and Buildings – and key staff members. 	Leadership is key but a senior team is needed to decide which Theatre Green Book level to target, make change, involve staff and report progress.
 Agree an ACTION PLAN setting out the steps you need to reach the next Green Book stage, and a timescale to achieve it. 	You must be clear on the key actions needed to deliver measurable progress towards the environmental goal.
 Make a DATA PLAN to set out what you are going to measure and who is responsible. 	You need to be in a position to report and analyse your progress, to achieve each Green Book standard.
 Set a COMMUNICATIONS PLAN to explain how you will share your targets and achievements, involving staff, partners and audiences. 	Sustainability needs a cultural change. Good communication helps everyone share the challenge.



BASIC is the next step on the journey to net zero



The next sections show how to reach **Basic** in each area

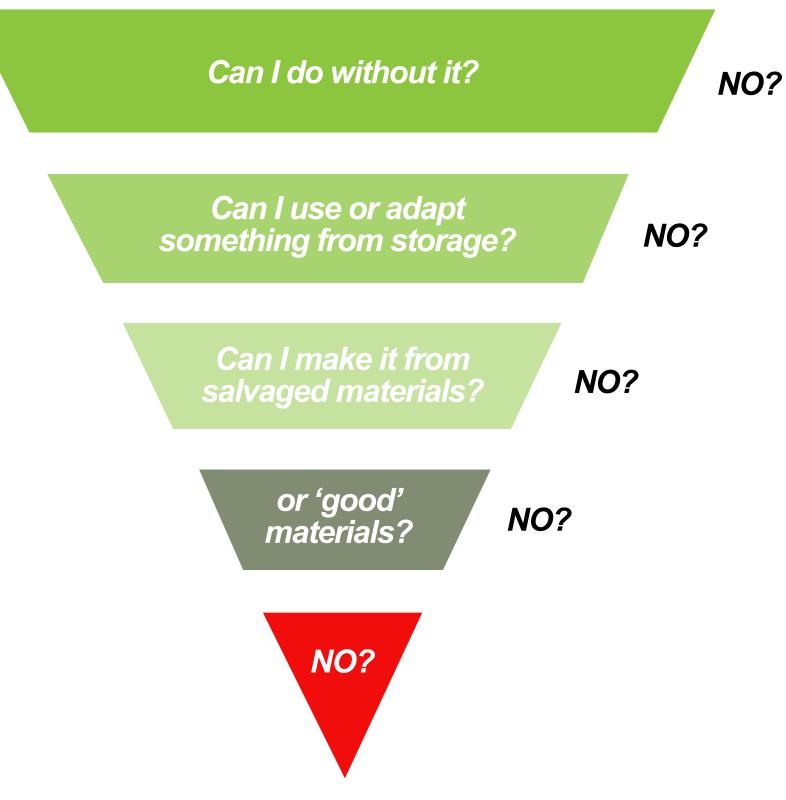


SUSTAINABLE PRODUCTIONS

Click <u>here</u> to go straight to **Productions Resources** for: • The Production Calculator and standards • Toolkit pages

If you don't produce shows, ignore this section

Think differently



Is it worth harming the planet for?

18

Everyone has a part to play

Artistic Direction and Producers

Creative Team

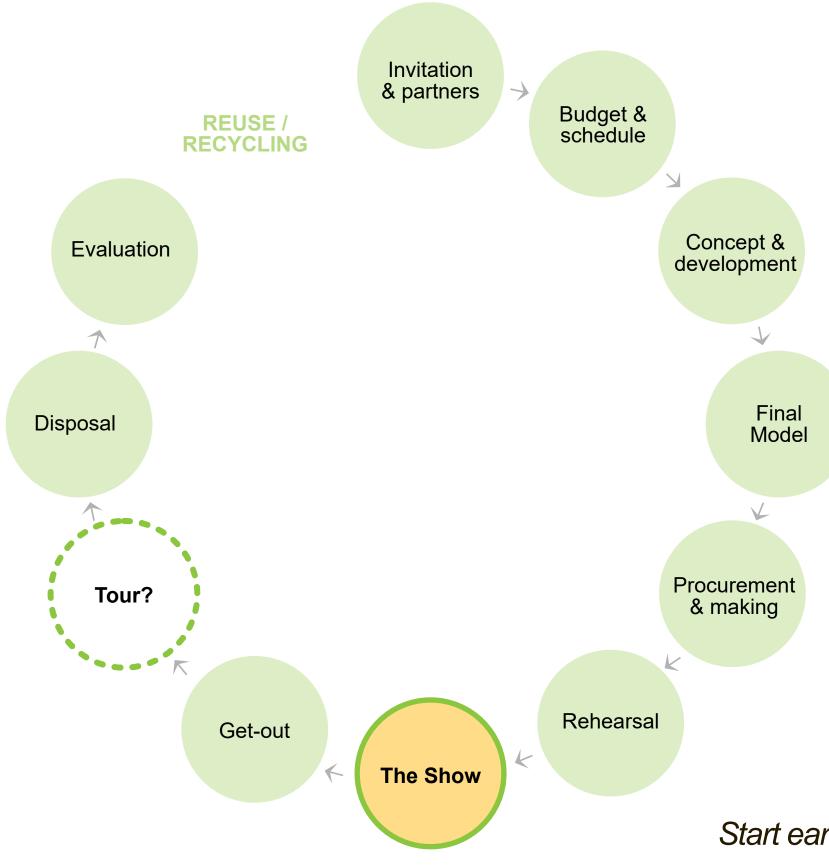
Cast and Stage Management Collaborate Be flexible

Production Management

Production and Technical Teams

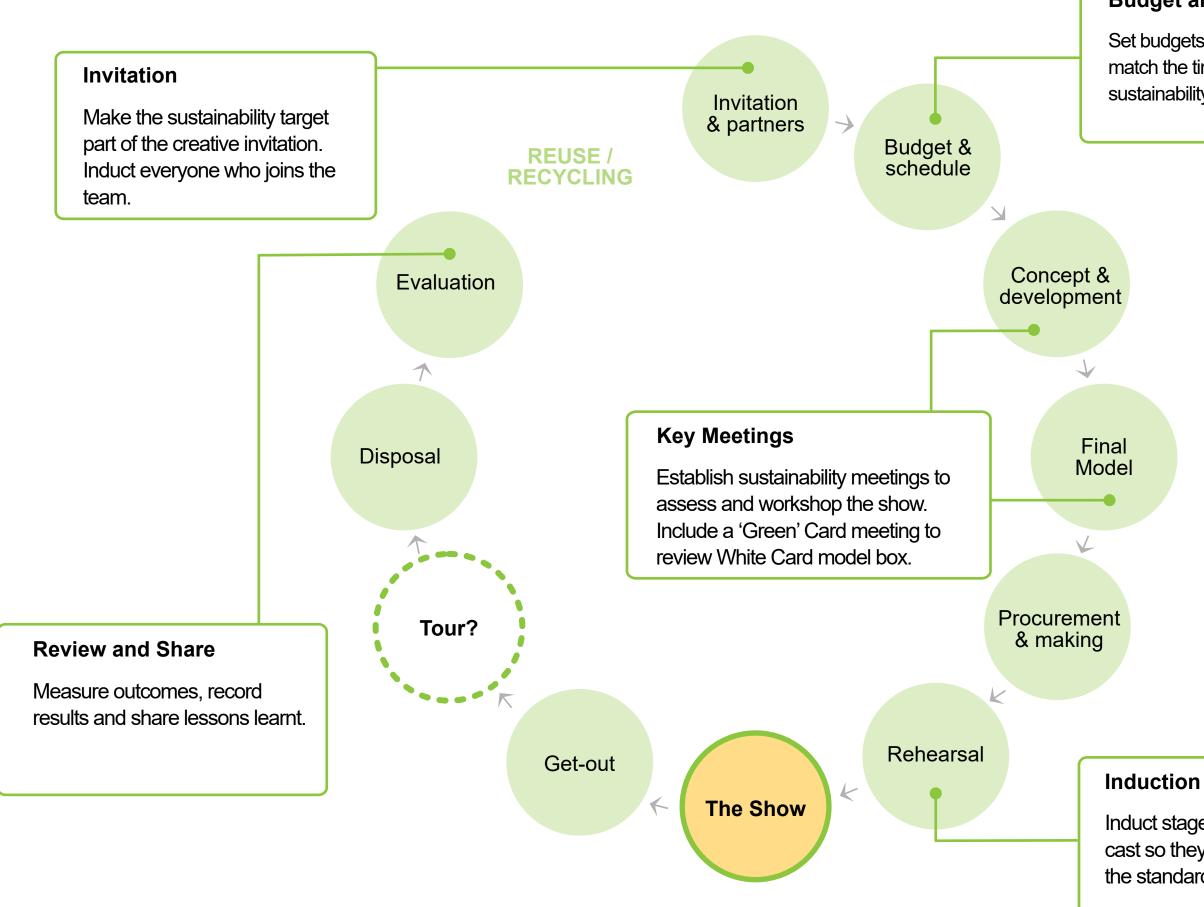


Sustainable Production



Start early. Give yourself time

The Life of a Production

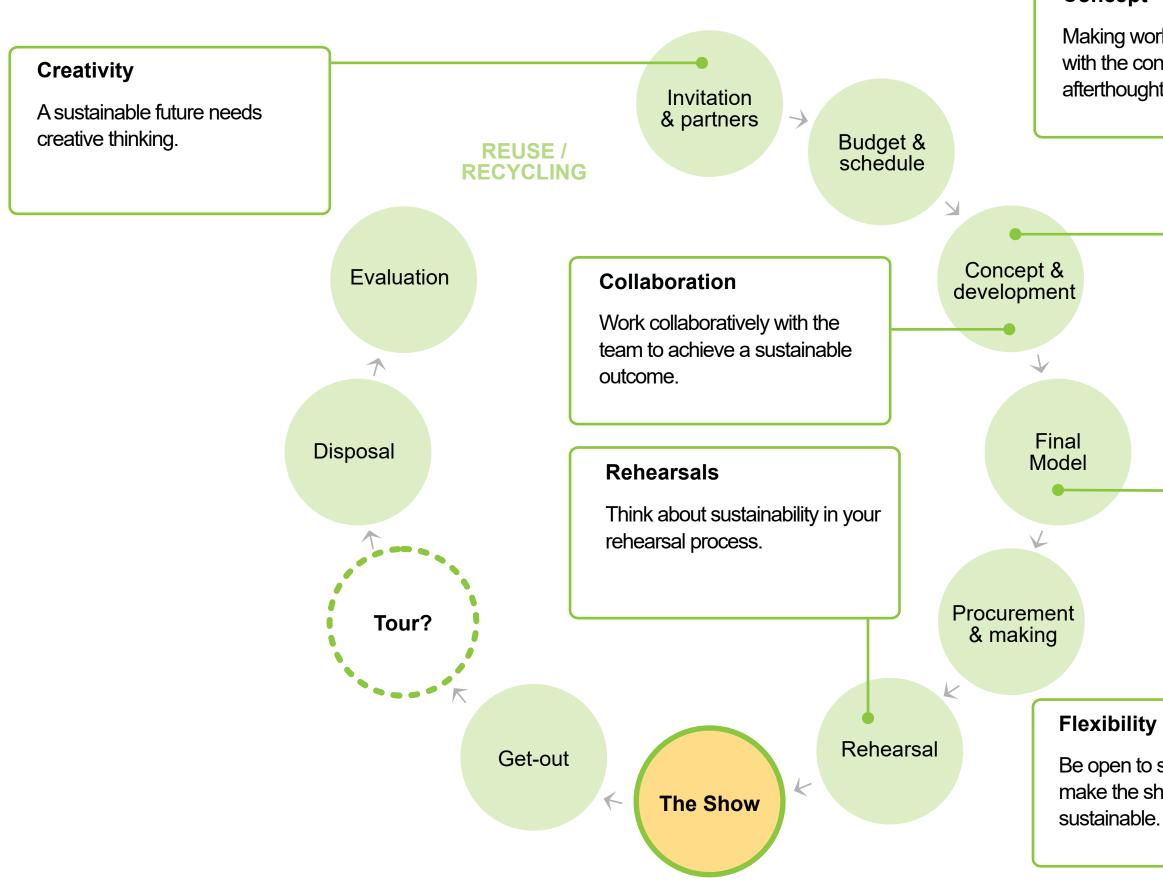


Budget and Schedule

Set budgets and schedules to match the time and costs sustainability needs.

Induct stage management and cast so they can help achieve the standard.

The Creative Challenge

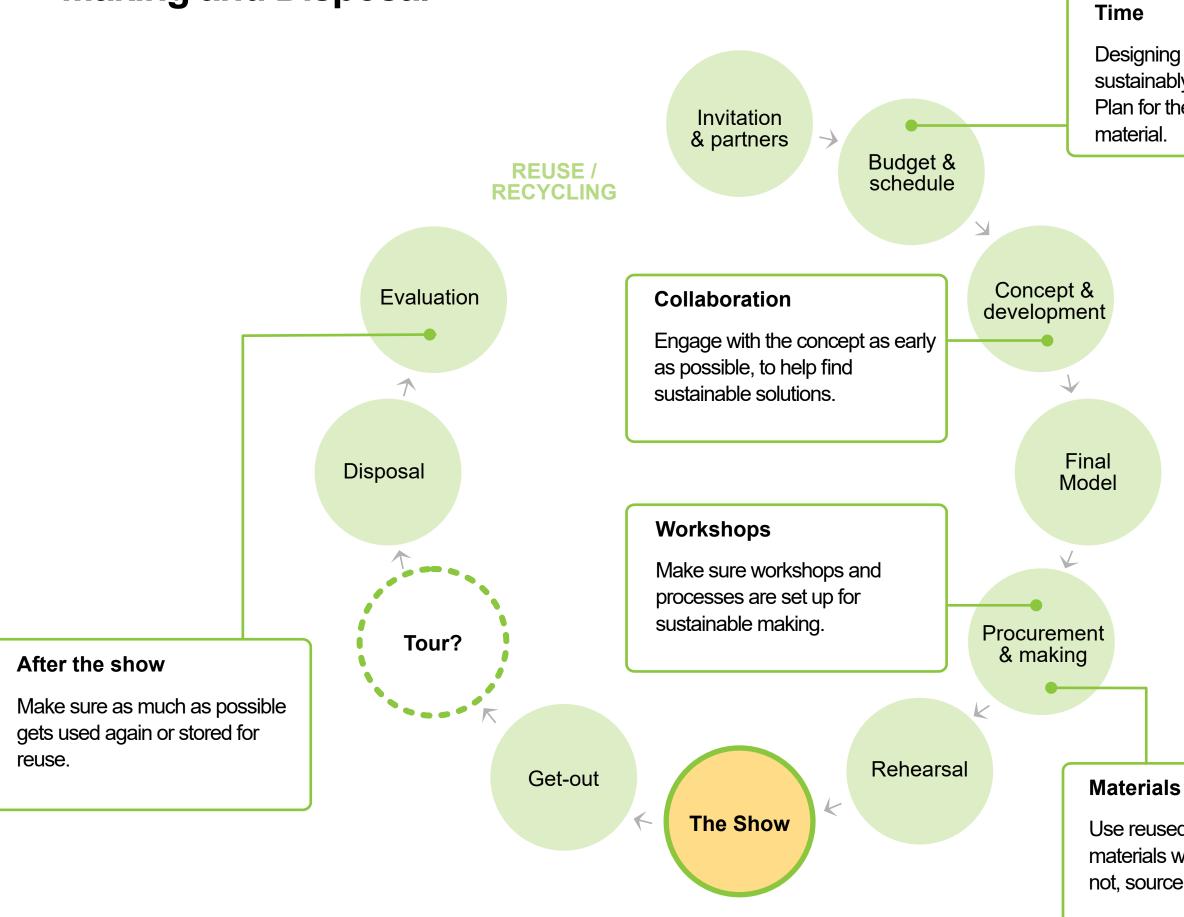


Concept

Making work sustainably begins with the concept. It can't be an afterthought.

Be open to suggestions that make the show more

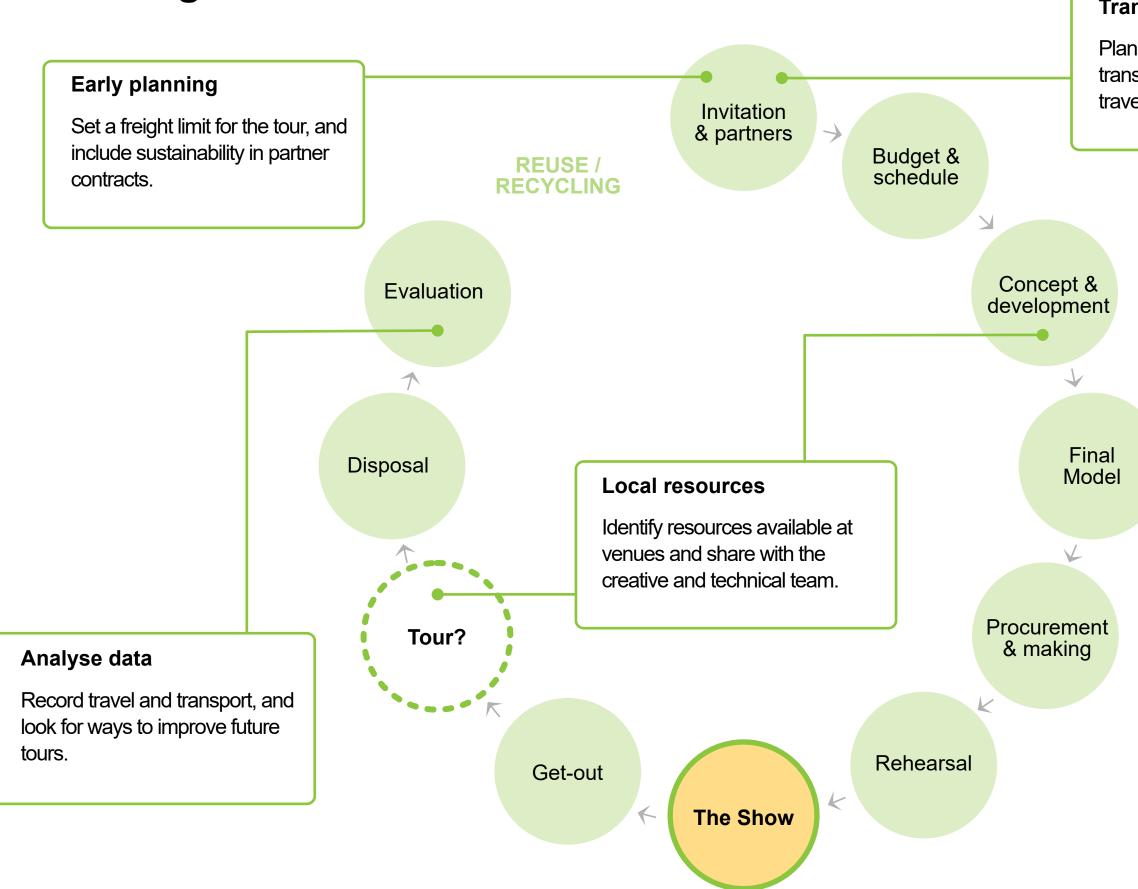
Making and Disposal



Designing and sourcing sustainably may take more time. Plan for the 'next life' of each

Use reused or recycled materials wherever possible. If not, source sustainably.

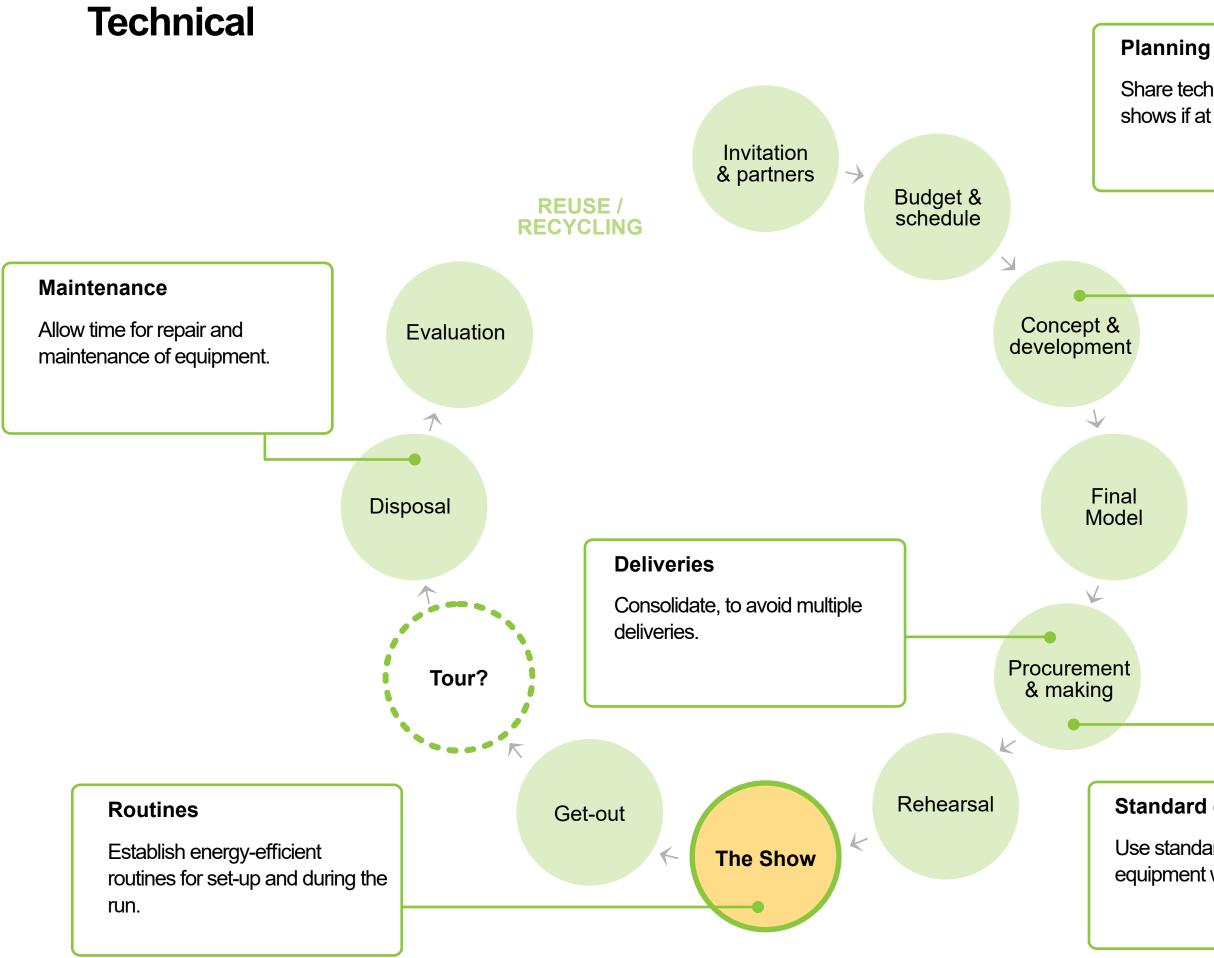
Touring



Transport and travel

Plan routes and research transport options, to minimise travel impact.



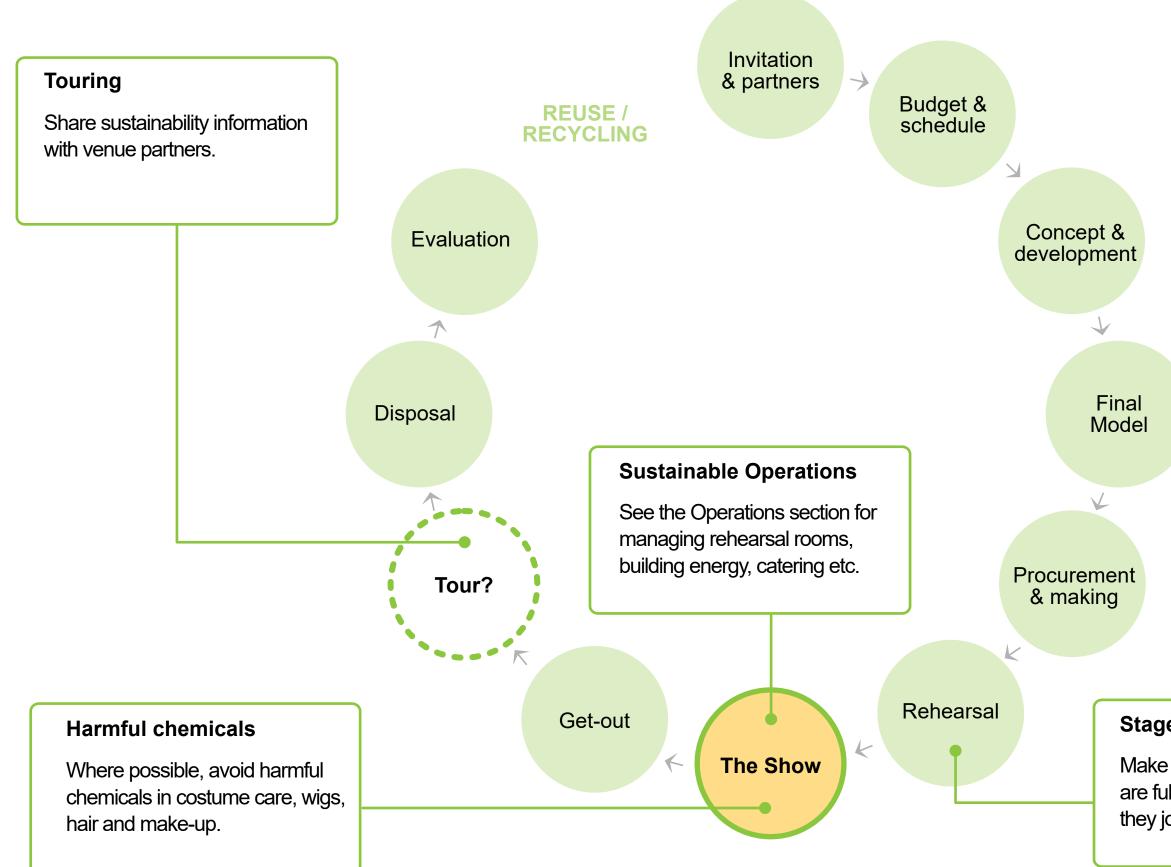


Share technical set-up with other shows if at all possible.

Standard equipment

Use standard, reusable equipment wherever possible.

Running a Production



Stage Management

Make sure Stage Management are fully inducted as soon as they join the team.

Basic Production

This is **Basic** standard. It follows the five steps of a production.

In a **Basic** production:

- 50% of everything on stage must be reused or recycled
- 65% must be stored or used again afterwards

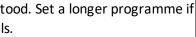
The Green Book **Production Calculator** helps you assess percentage of re-use and recycling in each production.

	ly. Make sure Basic standard is underst e on people's time and less on material
_	e how expertise and resources will be s ble disposal. Establish a haulage limit (production agreements.
Step 2 Con	cept and Development
 CONCEPT : Hold an early concept me collaborate with the whole team to ac 	eeting to collaboratively sense-check id hieve a sustainable outcome.
 CO-PRODUCTION / TOURING : Consi tour). Ensure technical specifications a 	der haulage limitations when designing reagreed with all receiving venues.
Step 3 Mak	ing a Sustainable Production
•	ventory of materials: sets and scenery, n used previously. 65% should be used
• NEW MATERIALS : Source new mate polystyrene where possible.	erials sustainably if possible. Avoid PVC
DELIVERIES : Consolidate deliveries	where possible. Avoid last-minute deliv
Step 4 Reh	earsing and Running a Sustaina
 STAGE MANAGEMENT and CAST : N and can contribute to achieving it. 	Nake sure cast and stage management
 TECHNICAL : Use re-used or hired eq practice across all technical departme 	uipment where possible. Make a plan nts (see Technical worksheet).
• WARDROBE, WIGS, HAIR, MAKEUP	: Avoid harmful chemicals where poss
• CO-PRODUCTION / TOURING : Use s	ustainable transport methods where p
 CO-PRODUCTION / TOURING : Use saccommodation within walking distan 	ustainable transport methods where p
CO-PRODUCTION / TOURING : Use s accommodation within walking distan Step 5 Afte	ustainable transport methods where p ce of venues.
CO-PRODUCTION / TOURING : Use saccommodation within walking distan Step 5 Afte REUSE AND RECYCLING : Check you'	ustainable transport methods where p ce of venues. r the Production ve achieved the target of 65% reused ,

Step 1

Prepare for a Sustainable Production

Done? V, NO or N/A



shared. Identify responsibilities (e.g. 'one trailer' or 'one transit

deas. At **DEVELOPMENT** stage,

ng (or when redesigning for a

r, props and furniture, costumes. I again after the show.

C, tropical hardwoods and

veries where possible.

ble Production

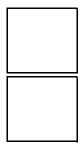
t understand Baseline standard,

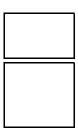
to reduce the impact of your

sible.

possible. Choose

/ recycled for sustainable

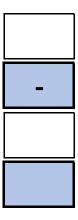


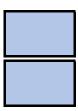


Source

Disposal







Intermediate Production

This is Intermediate standard.

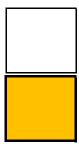
In an Intermediate production:

- 60% of everything on stage must be reused or recycled
- 70% must be stored or used again afterwards

	ation pack of in-house and local resources to support sustainability. Offer am members, including freelancers.
• CO-PRODUCTION / TOURING : A resources available. Review sustain	Agree a Green Contract Rider with receiving venues (see Toolkit), including inable haulage options.
Step 2	Concept and Development
• CONCEPT and DEVELOPMENT : materials.	Connect with productions in the same season to SHARE and REUSE
• CO-PRODUCTION / TOURING : Notes that the possible.	Minimise business travel. Record all journeys. Technical design to use local
Step 3	Making a Sustainable Production
-	an inventory of materials: sets and scenery, props and furniture, costumes. been used previously. 70% should be used again after the show.
• NEW MATERIALS : Source all new where possible.	w materials sustainably. Avoid PVC, tropical hardwoods and polystyrene
• DELIVERIES : Record deliveries	related to the production.
Step 4	Rehearsing and Running a Sustainable Production
• STAGE MANAGEMENT and CAS production period and run.	T : Use the Toolkit to make a Sustainability Plan for the rehearsal /
• TECHNICAL : Begin to implement departments (see Technical works	it your plan to reduce the impact of your practice across all technical sheet).
• WARDROBE, WIGS, HAIR, MAK cleaning temperatures. Avoid dry	EUP : Source sustainable products where possible. Minimise laundry cleaning where possible.
• CO-PRODUCTION / TOURING : F with green accreditation.	Record travel distance and transport methods. Choose accommodation
Step 5	After the Production
• REUSE AND RECYCLING : Check disposal.	you've achieved the target of 70% reused / recycled for sustainable
• REVIEW : Assess results. Share le	essons learned with future teams.

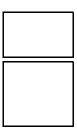
Step 1

Done? V, NO or N/A



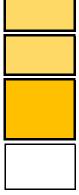


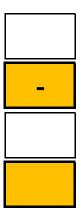
ble Production

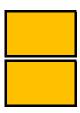


Source

Disposal







Advanced Production

This is Advanced standard.

In an Advanced production:

•Everything on stage must be: Reused (75%) or Recycled (80%), OR Certified Net Zero (No more than 20%).

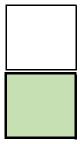
	LCULATORS (included in Production Calculator) to aid decision-making on el. Encourage the creative team and cast to promote the production's
	Plan the tour route to reduce travel and use sustainable travel methods. That have reached overall Baseline standard, and tour to theatres that pility.
Step 2	Concept and Development
CONCEPT and DEVELOPMENT	: Use MODULAR COMPONENTS where possible to support recycling.
• CO-PRODUCTION / TOURING reductions. Use local resources v	: Calculate the carbon footprint of TRAVEL and TRANSPORT , to help plan where they support reductions.
Step 3	Making a Sustainable Production
	of materials should have been used previously. 80% should be used again usy disassembly to support recycling.
• NEW MATERIALS : Source all r tropical hardwoods, polystyrene	new materials from accredited zero carbon sources. Completely avoid PVG and harmful chemicals.
• DELIVERIES : Calculate the car	bon footprint of deliveries, to help plan reductions.
Step 4	Rehearsing and Running a Sustainable Production
• STAGE MANAGEMENT and CA period and run.	ST : Fully implement a Sustainability Plan for the rehearsal / production
• TECHNICAL : Fully implement y departments (see Technical wor	our plan to reduce the impact of your practice across all technical ksheet).
• WARDROBE, WIGS, HAIR, MA	KEUP : Completely avoid harmful chemicals and materials.
• CO-PRODUCTION / TOURING : impacts. Publish results and high	: Calculate the carbon footprint of tours, to help minimise and offset light blockers to sustainability.
Step 5	After the Production
• REUSE AND RECYCLING : Cheed disposal. Ensure any residual was	ck you've achieved the target of 80% reused / recycled for sustainable ste is sustainably disposed of.
• REVIEW : Assess results. Share	lessons learned with future teams.

Step 1

Prepare for a Sustainable Production

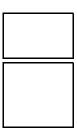
or) to aid decision-making on

Done? V, NO or N/A



ources. Completely avoid PVC,

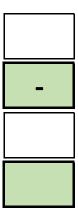
le Production



Source

Disposal







Go to PRODUCTIONS RESOURCES

for ... • The Production Calculator and downloadable standards

• Toolkits

Go to **Productions** resources



SUSTAINABLE OPERATIONS

Click *here* to go straight to **Operations Resources** for:

• The Operations Tracker and standards

Establish a green structure for your organisation



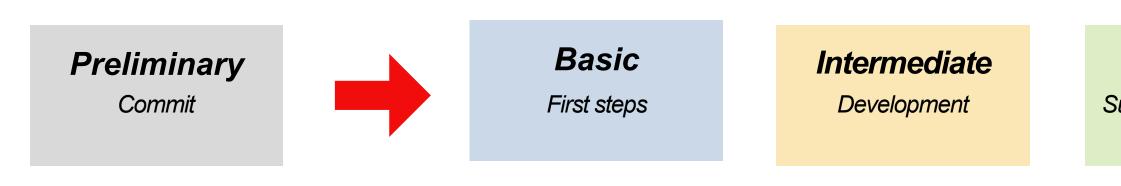
targets and achievements

Communicate

Be methodical

Don't waste time on things you can't control.

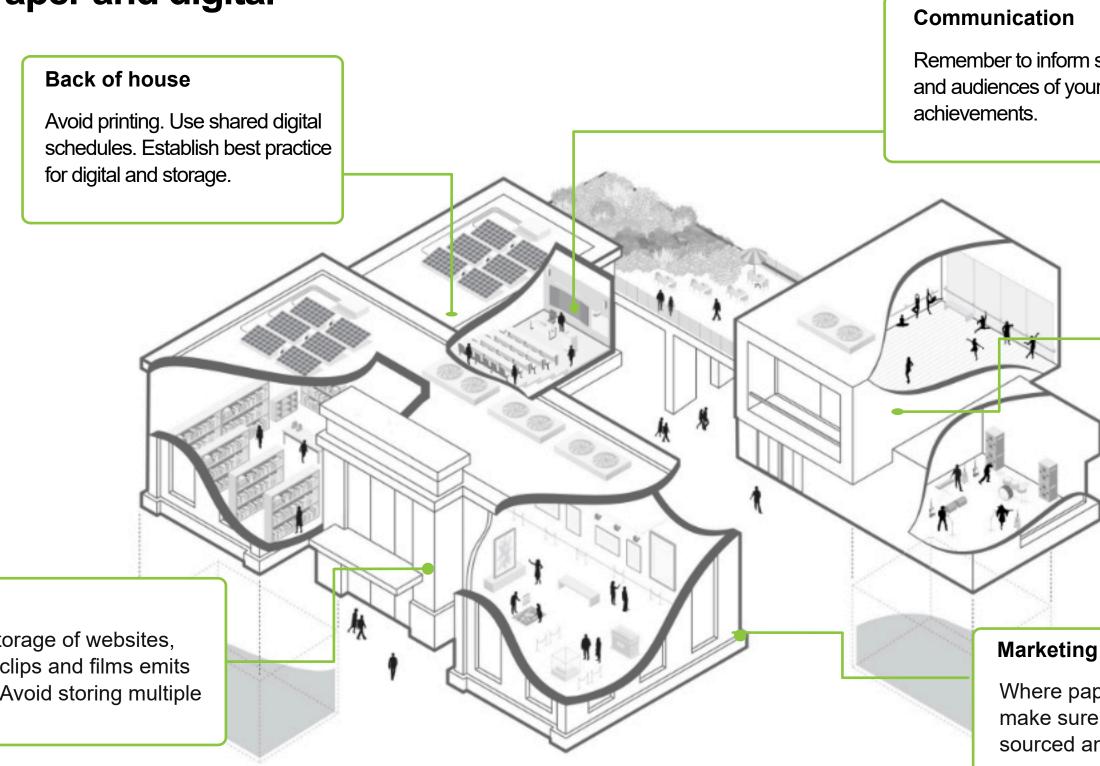






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Paper and digital



Digital

Cloud storage of websites, photos, clips and films emits carbon. Avoid storing multiple copies.

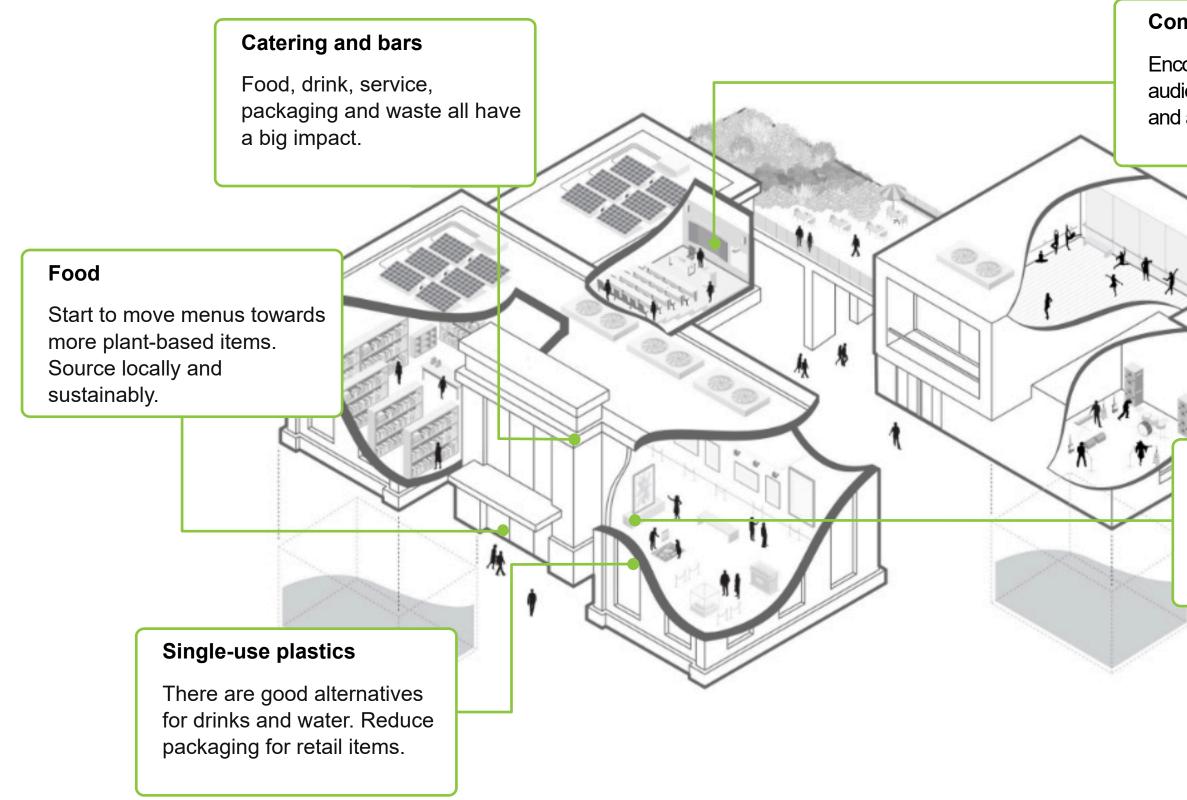
Remember to inform staff, visitors and audiences of your targets and

Rehearsals

Limit printed scripts. Avoid reprinting multiple copies with every re-write.

Where paper is unavoidable, make sure it's sustainably sourced and recyclable.

Food, drink, retail



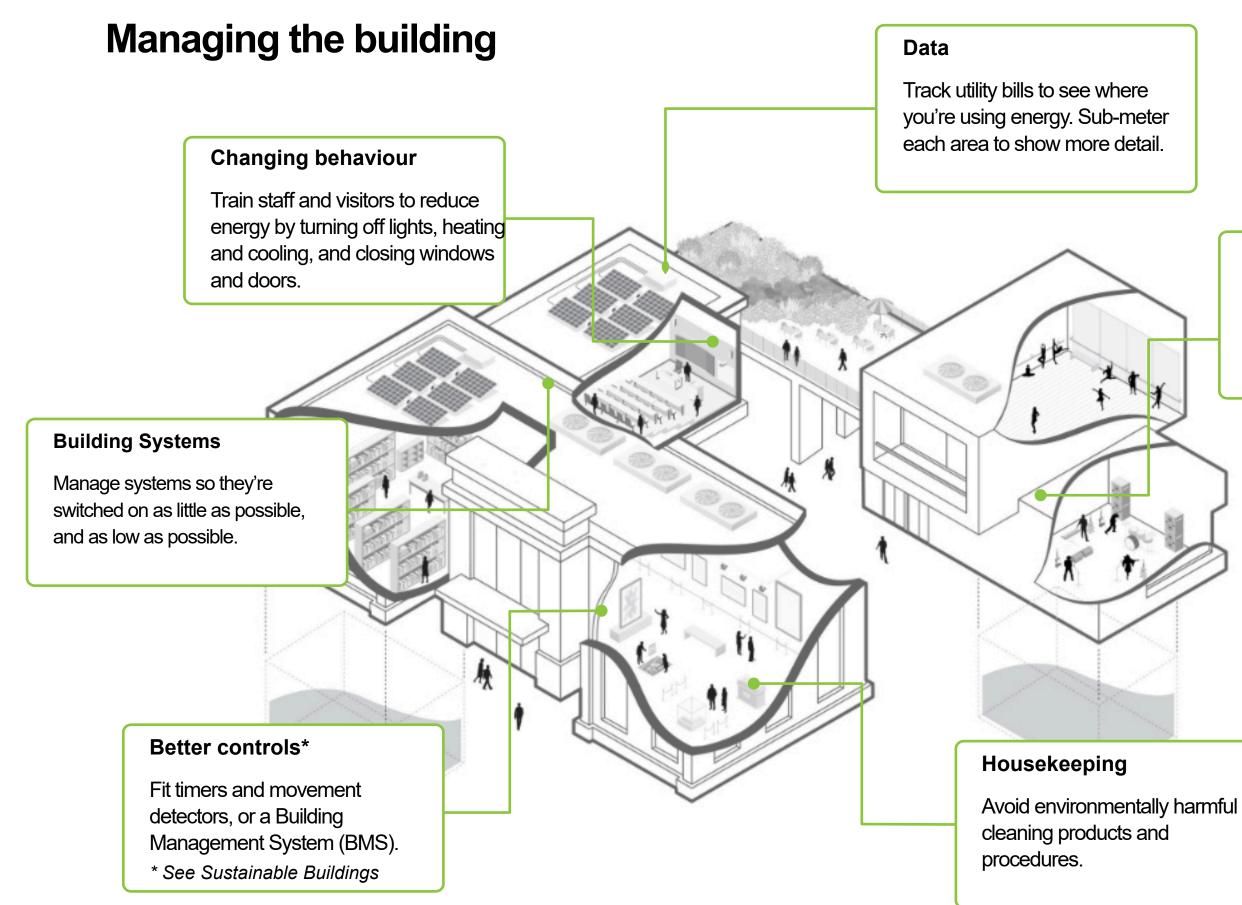
Communication

Encourage staff, visitors and audiences to share your targets and achievements.



Retail

Procure responsibly. Partner sustainable brands. Reduce packaging and deliveries.



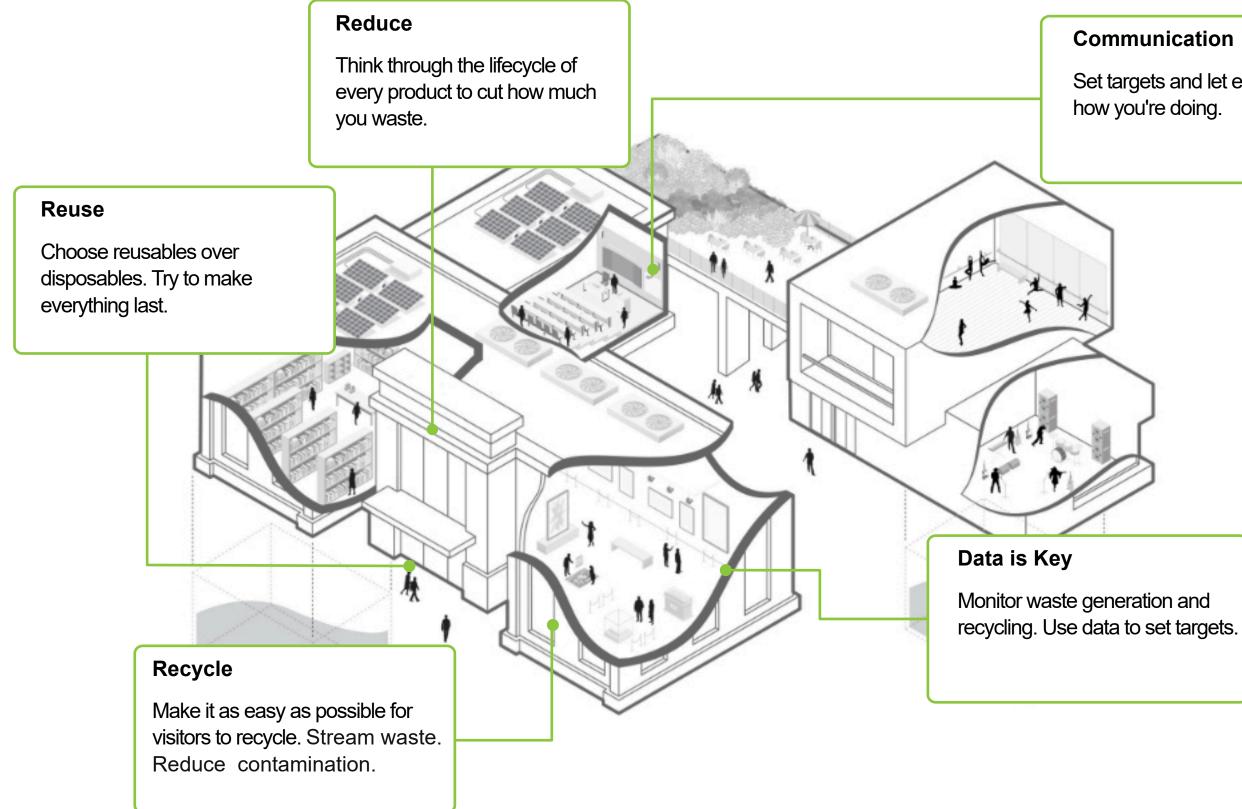
• This section shows how to manage buildings as sustainably as possible.

• The next, 'Sustainable Buildings', shows how to upgrade them to make them more sustainable.

Maintenance

Maintain plant carefully to improve sustainability, performance and cost.

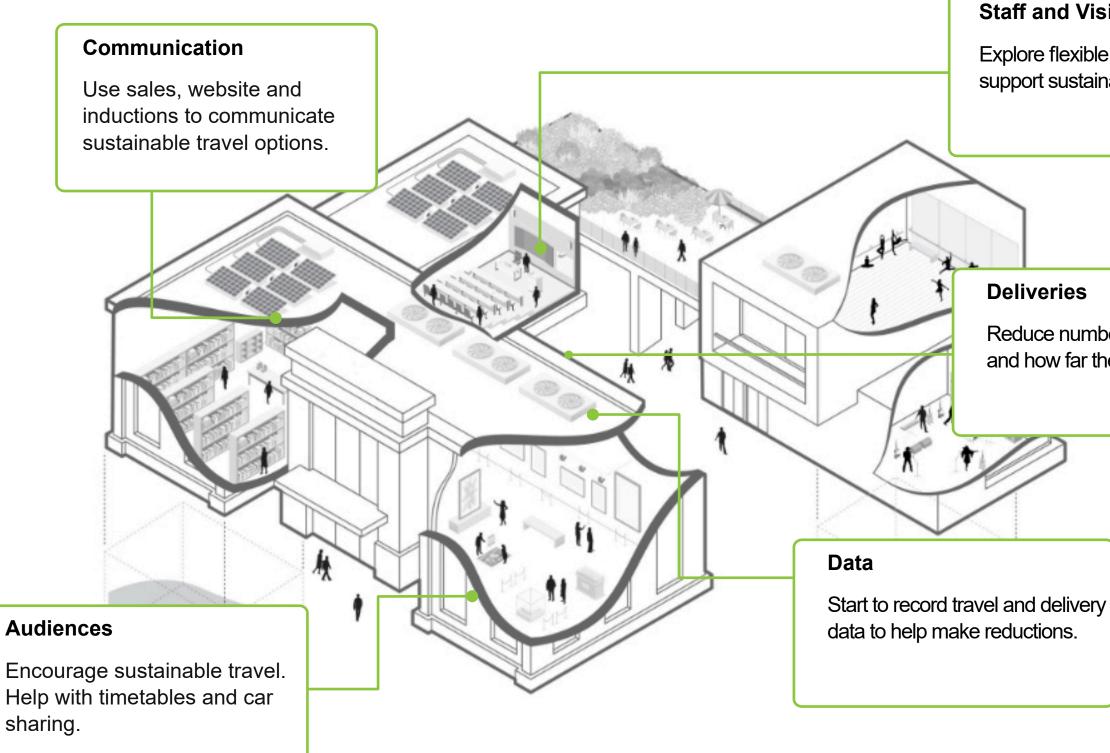
Reuse and recycling



Communication

Set targets and let everyone know how you're doing.

Travel and transport



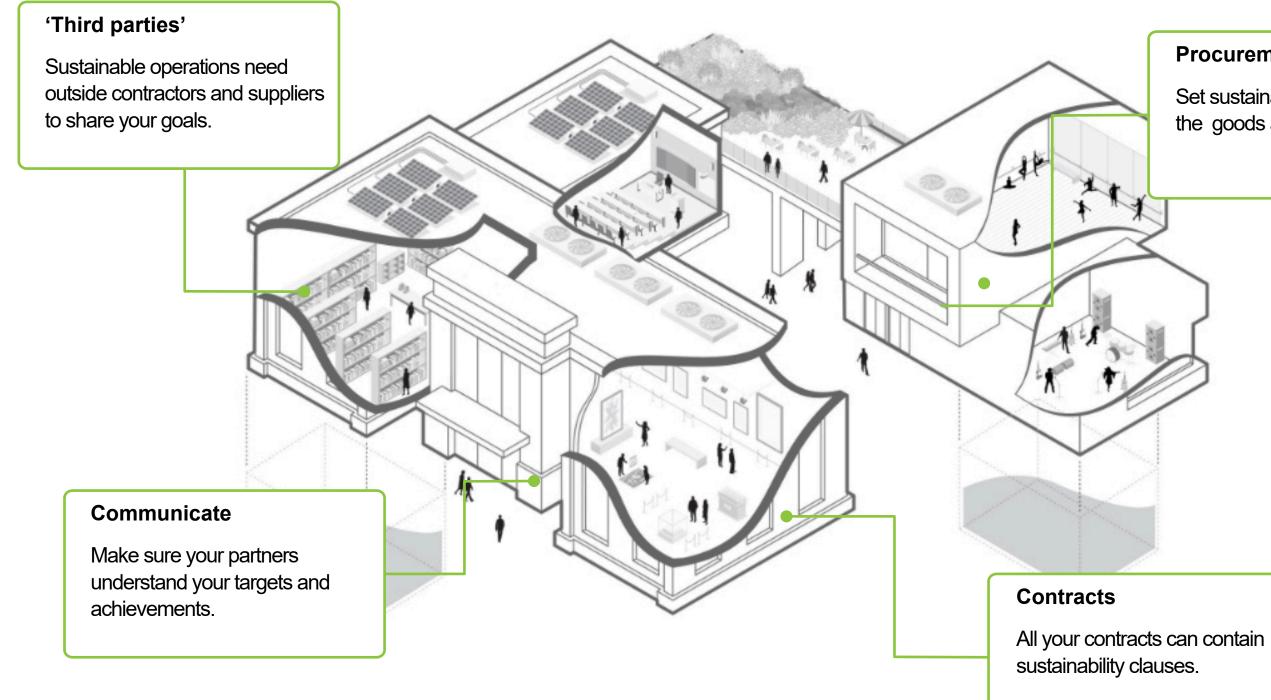
Staff and Visitors

Explore flexible working, and support sustainable options.



Reduce numbers of deliveries and how far they come.

Contracts and procurement



Procurement

Set sustainability standards for the goods and services you buy.

Basic Operation

To reach **Basic** in your operations:

- Plan for a Sustainable Organisation
- Reach **Basic** in at least four of the six areas (steps 2 to 7)

The Green Book **Operations Tracker** helps you assess your progress in each area.

Step 1 Plan for a Sustainable Organisation

• Establish a **GREEN COMMITTEE** and staff sustainability network. Set a timescale to achieve Basic standard.

• **COMMUNICATE** your Sustainability goals and systems, to staff, visitors and the public. **ENGAGE** your audiences on the journey.

Step 2 Managing Paper and Digital

• Make a plan and timetable to **REDUCE PAPER** and switch to digital alternatives for tickets, documents etc.

• Make a plan and timetable to make **DIGITAL SYSTEMS** (e.g. websites and emails) sustainable.

Step 3 Managing Food, Drink and Retail

• Make a plan and timetable to manage **FOOD AND DRINK** outlets sustainably. If you have a restaurant or staff canteen, make **20%** of starters & mains vegetarian or vegan.

Make a plan and timeable to reduce SINGLE-USE PLASTICS in your Front and Back of House operations.

Step 4 Managing Buildings

• RECORD energy readings every month.

• **TRAIN** staff and visitors in energy-saving behaviour. Set **CONTROLS** (timers and thermostats) to minimise energy use.

Step 5 Managing Waste

• Separate **WASTE** between recycling and general waste and measure both.

Step 6 Managing Travel and Transport

• Provide STAFF, ARTISTS, VISITORS and AUDIENCES with information on sustainable transport options.

• Record BUSINESS TRAVEL, using the Travel Calculator.

• Prepare a **DELIVERIES PLAN** to consolidate and reduce deliveries, and share it with every department.

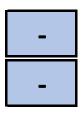
Step 7 Contracts and Procurement

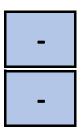
• Include sustainability criteria in **PROCURING** major suppliers and contractors. Include Sustainability standards in major **CONTRACTS**.

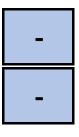
You can download this page with the Operations Tracker from **RESOURCES**

fills in spreadsheet

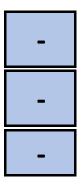
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Intermediate Operation

To reach Intermediate in your operations:

- Develop your Sustainable Organisation
- Reach Intermediate in at least four of the six areas (steps 2 to 7)

Step 1 Plan for a Sustainable Organisation

• Arrange **CLIMATE LITERACY TRAINING** for at least 25% of staff. Set a timescale to achieve Intermediate standard.

• COMMUNICATE your Theatre Green Book experience to other theatres.

Managing Paper and Digital Step 2

Implement your plan to REDUCE PAPER and switch to sustainable printing.

Implement your plan to make DIGITAL SYSTEMS sustainable.

Managing Food, Drink and Retail Step 3

• Implement your plan to manage FOOD AND DRINK outlets sustainably. If you have a restaurant or staff canteen, make **20%** of starters and mains plant-based.

• Implement your plan to reduce SINGLE-USE PLASTICS from your Front and Back of House operations.

Managing Buildings Step 4

Make a FULL ANALYSIS of energy use in each part of the building.

• Make a PLAN for further reductions in energy use, using the findings of the analysis.

Managing Waste Step 5

• Eliminate waste to landfill. Make a plan to reduce WASTE and increase RECYCLING, to make sure you stream waste as much as your waste collector allows.

Step 6 Managing Travel and Transport

• Survey AUDIENCES to find out how they travel.

Make a SUSTAINABLE TRAVEL PLAN, including a limit on AIR TRAVEL.

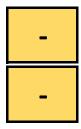
Implement your DELIVERIES PLAN to reduce the annual carbon footprint of deliveries.

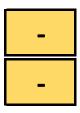
Contracts and Procurement Step 7

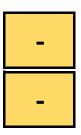
• Make a SUSTAINABLE PROCUREMENT POLICY to define standards and requirements for all major suppliers and contractors, and share with all relevant departments.

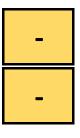
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fills in spreadsheet

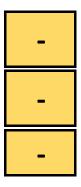














Advanced Operation

To reach Advanced in your operations:

- Develop your Sustainable Organisation
- Reach Advanced in all areas

NOTE

Asa minimum, publishyour carbon footprint using the Theatre Green Booktools, to include:

- Significantnew materials in productions (steel, aluminium, timber)
- Travel (touring, deliveries, businesstravel)
- Building energy use

You may also usegeneral calculators (e.g. Julie's Bicycle), but make sure you use the same method every year.

You can download this page with the Operations Tracker from **RESOURCES**

Step 1 Plan for a Sustainable Organisation

 Arrange CLIMATE LITERACY TRAINING for at least 75% of staff. Offer training to freelance partners. Set a timescale to achieve Advanced standard.

• PUBLISH your carbon footprint (see note below) every year.

Step 2 Managing Paper and Digital

Complete your plan to REDUCE PAPER and switch to sustainable printing.

• Complete your plan to make **DIGITAL SYSTEMS** sustainable.

Step 3 Managing Food, Drink and Retail

• Complete your plan to manage FOOD AND DRINK outlets sustainably. If you have a restaurant or staff canteen, make 75% of all menu items plant-based.

• Complete your plan to reduce **SINGLE-USE PLASTICS** from your Front and Back of House operations.

Step 4 Managing Buildings

• Switch to a GREEN ENERGY SUPPLIER if possible.

• Implement your PLAN for energy reductions.

Step 5 Managing Waste

Complete the plan to minimise WASTE and maximise RECYCLING.

Step 6 Managing Travel and Transport

• Incentivise AUDIENCES to travel sustainably.

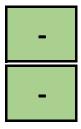
• Implement your **SUSTAINABLE TRAVEL PLAN** to minimise the carbon footprint of your buisness travel.

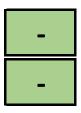
• Minimise the carbon footprint of your **DELIVERIES**.

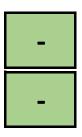
Step 7 Contracts and Procurement

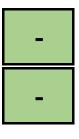
• Require all major suppliers and contractors to comply with **KEY PERFORMANCE INDICATORS** for sustainability.

fills in spreadsheet

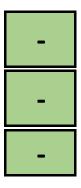














Go to OPERATIONS RESOURCES

The Operations Tracker and downloadable standards for ...

• Toolkits

Go to **Operations** resources



SUSTAINABLE BUILDINGS

Click here to go straight to Buildings Resources for:

• The Building Survey Tool and downloadable standards

• Toolkit pages

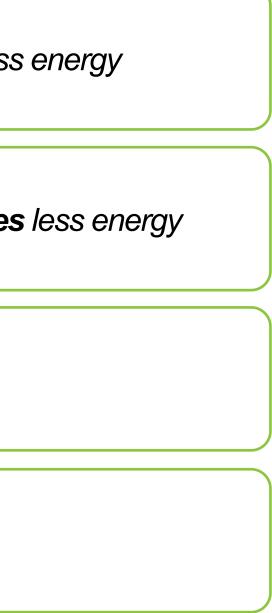
If you don't have a building, ignore this section

Theatre buildings emit a lot of carbon

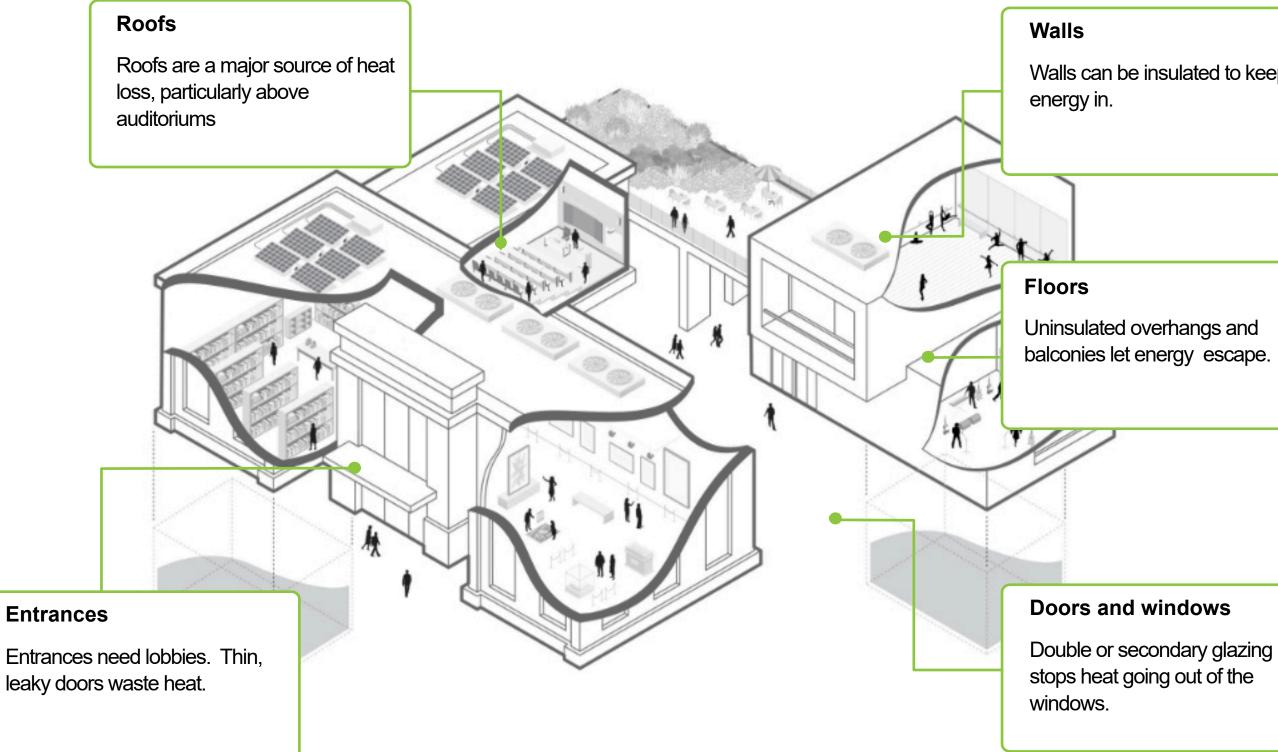
- The previous section, Sustainable Operations, shows how to manage buildings as sustainably as possible.
- This section shows how to **upgrade** buildings to make them more sustainable.
- Sustainable buildings **cost less** to run.

These are the priorities, in order:

Insulation	Roofs, walls and windows so your building needs less
Efficiency	Efficient plant and good controls so your building uses
Renewables	So you generate renewable energy
Biodiversity (and use less water)	

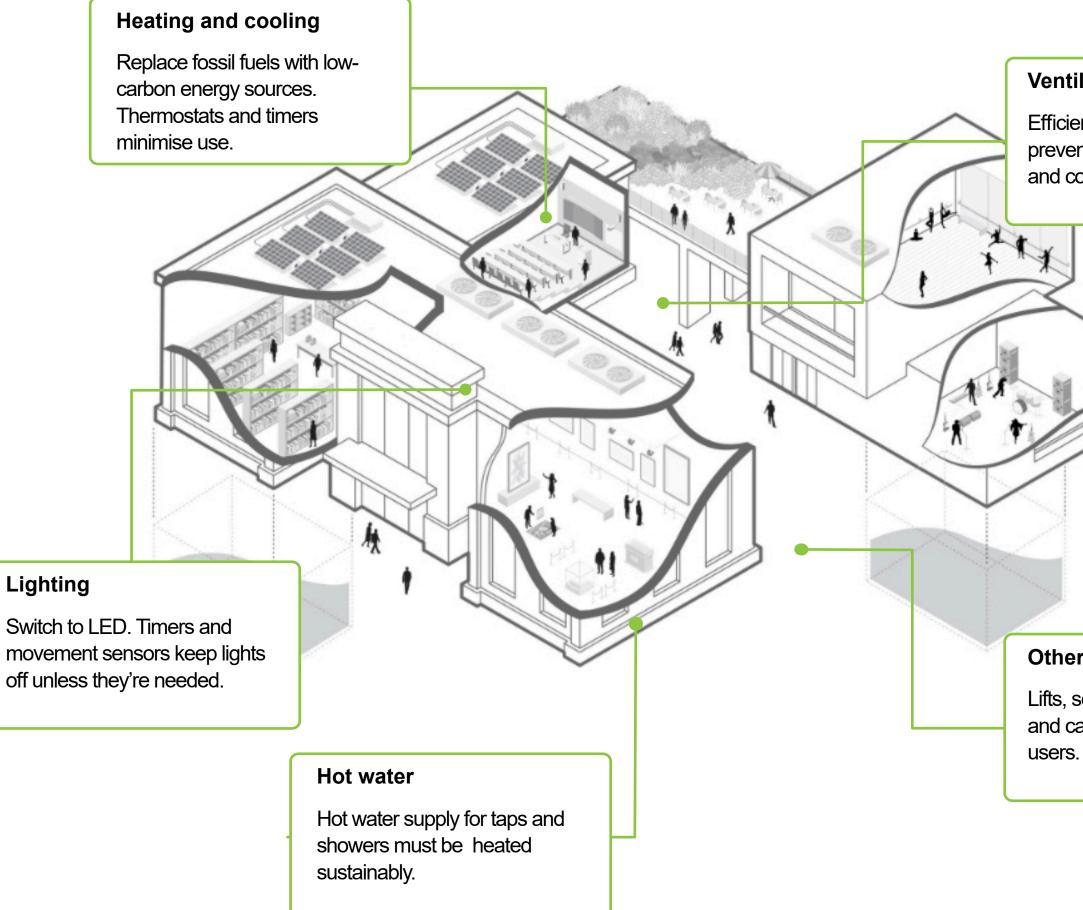


Insulation (so you <u>need</u> less energy)



Walls can be insulated to keep

Efficiency (so you <u>use</u> less energy)



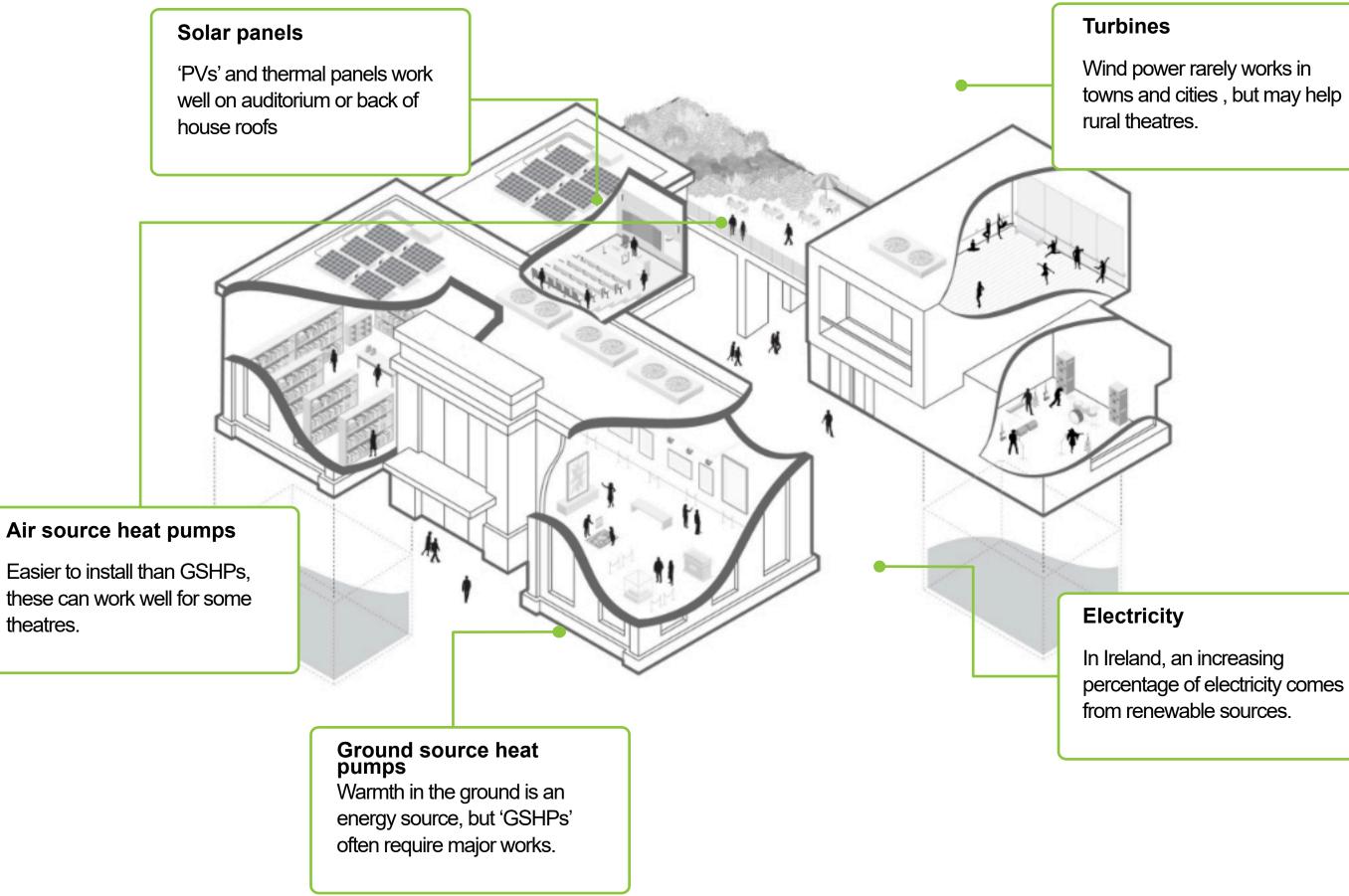
Ventilation

Efficient fans and pumps prevent energy waste. Timers and controls switch them off.

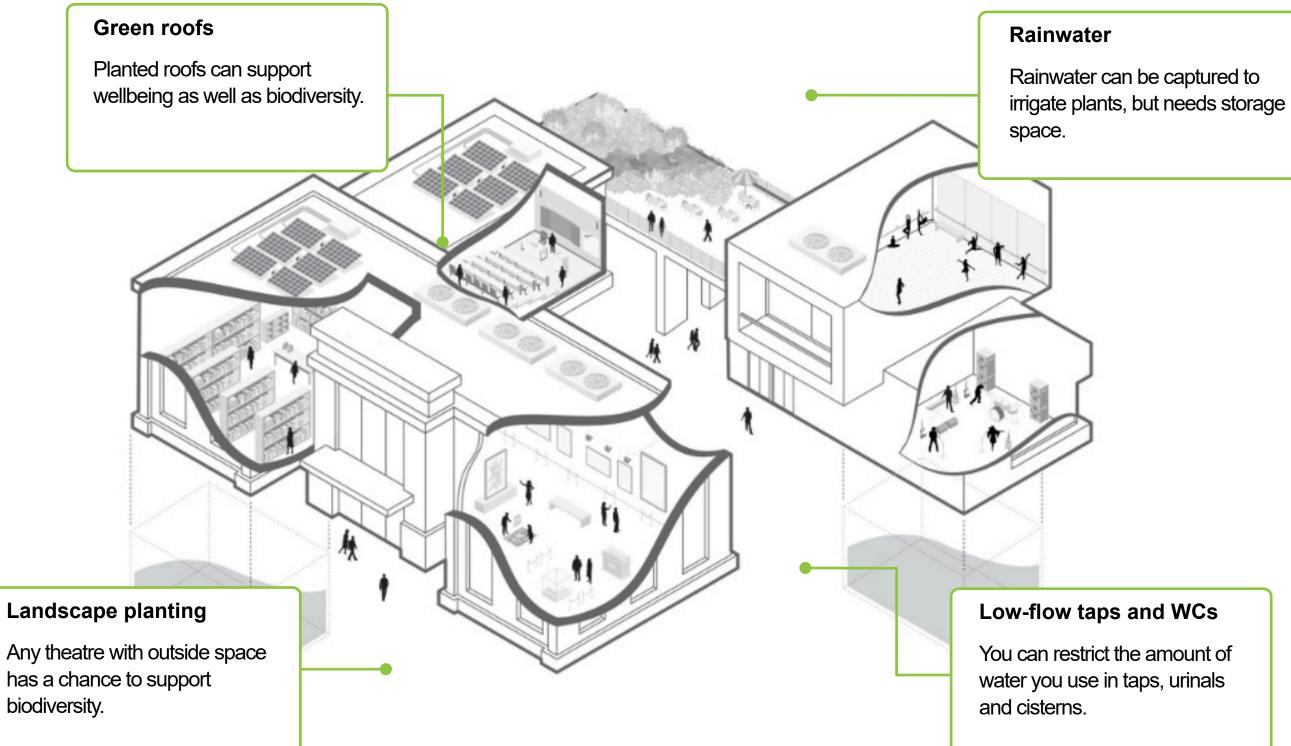
Other Systems

Lifts, servers, security systems and catering are all big energy

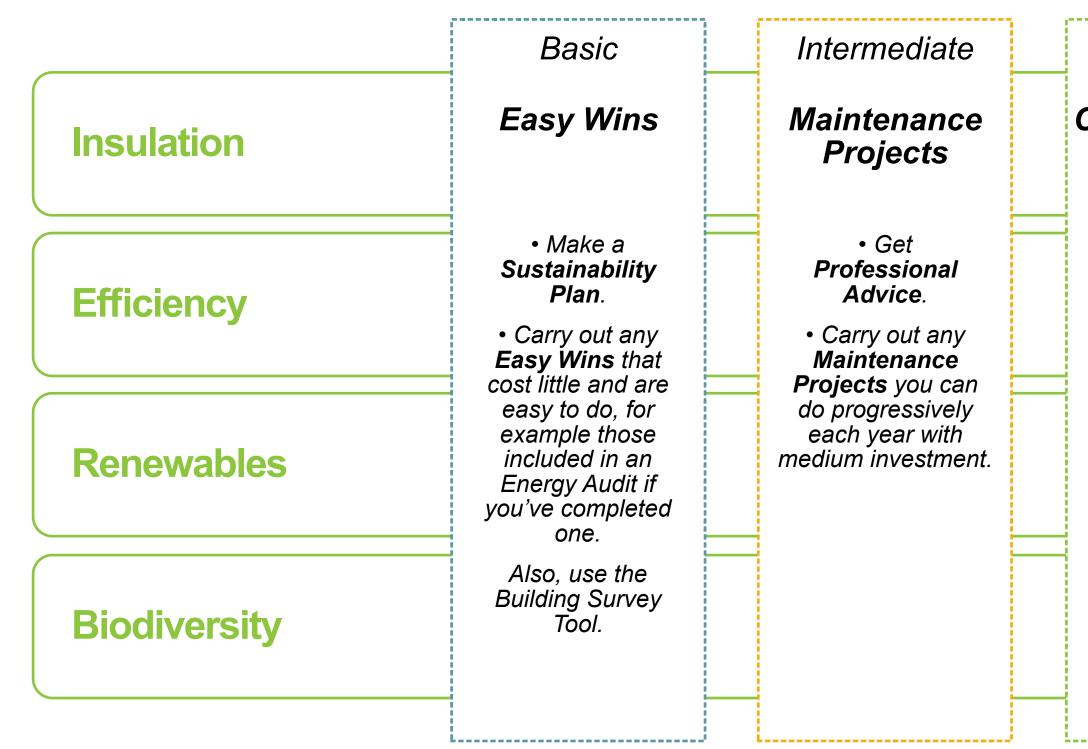
Renewables (make your own energy)



Support biodiversity and use less water

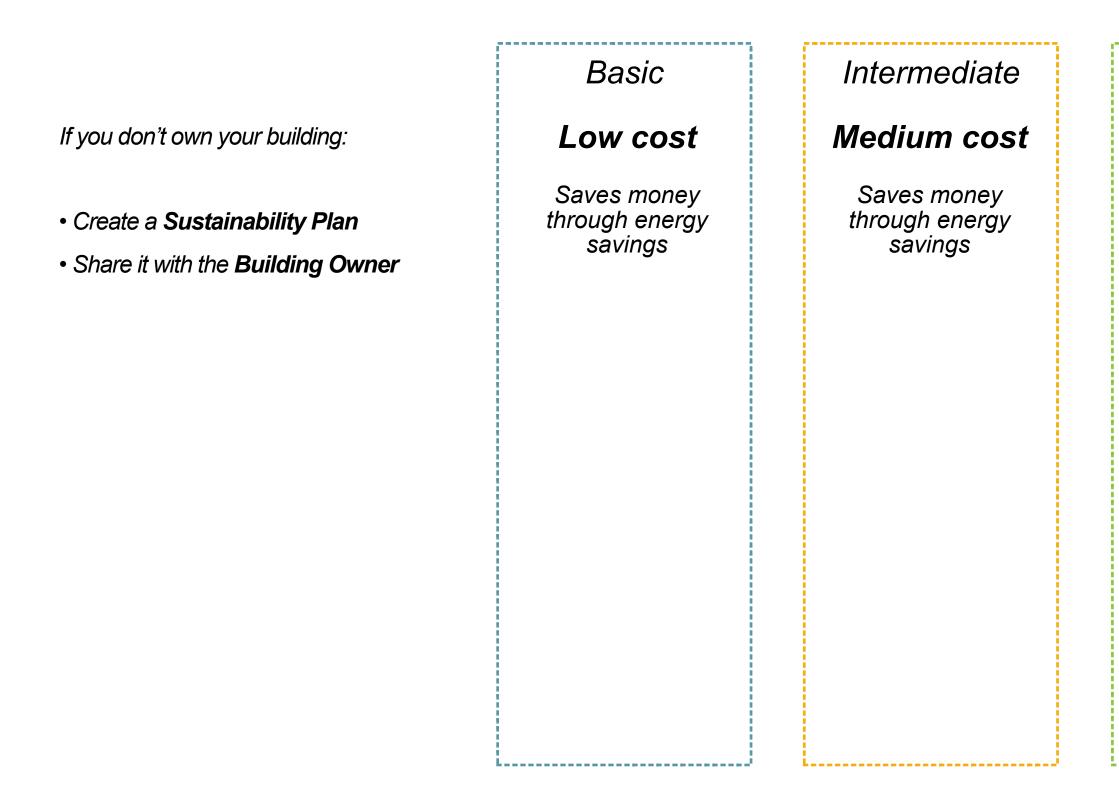


Make a Sustainability Plan





Sustainability cuts energy costs



Advanced High cost Saves money longterm, but needs major investment through: • Subsidy • Fundraising • Energy contracting

Basic Building

To reach **Basic** for your building:

- Make a Sustainability Plan
- Implement the Easy Wins

The **Building Survey Tool** helps you start a Sustainability Plan. Answer questions about your building. It will help you divide actions into

- Easy Wins
- Maintenance Projects
- Capital Projects

It will put them in order of priority, and suggest where you need professional advice.

Step 1	Plan for a Sustainable Building
 Prepare 	a Sustainability PLAN , identifying Easy Wins, Maintenance project
• Gather I	NFORMATION. Record energy use monthly (Heating & Electricity).
Step 2	Insulation: so your building needs less energy
• Identify	Easy Wins (if any) to insulate ROOFS , balconies and WALLS . Impleme
• Identify	Easy Wins (if any) to upgrade DOORS and WINDOWS . Implement th
Step 3	Efficiency: so your building uses less energy
	l you can about your HEATING AND COOLING system(s). Identify Eas ats and controls). Implement these and list next steps.
	our LIGHTING systems and how they're controlled. Identify Easy Wir ut them in hand and list next steps.
	l you can about your HOT WATER system(s). Identify Easy Wins (e Implement these and list next steps.
	l you can about your VENTILATION system(s). Identify Easy Wins (). Implement these and list next steps.
	l you can about OTHER SYSTEMS (lifts, servers, security, catering tify Easy Wins . Implement these and identify next steps.
Step 4	Renewables: so you make your own energy
	h RENEWABLE energy generation systems (Solar panels, Photovoltai Identify next steps.
Researc	h HEAT PUMPS as a replacement for boilers and chillers. Identify nex
• Switch t	o a green ELECTRICITY supplier if possible.
Step 5	Support Biodiversity and use less water
• Install P ROOFS.	LANTERS around your building, where possible. Identify opportunitie
• Install b	utts to collect RAINWATER , where possible.

You can download this page with the Building Survey Tool from **RESOURCES**

Done?

cts and Capital Projects

ment these and list next steps.

these and list next steps.

asy Wins (e.g. better timers,

/ins (e.g. movement detectors or

(e.g. better timers, thermostats and

s (e.g. better timers and CO2

ng equipment, electrical appliances

aic ('PV') cells or (more rarely) wind

ext steps.

ties for new planting, or GREEN

Intermediate Building

To reach Intermediate for your building:

- Develop your Sustainability Plan
- Put in hand the Maintenance Projects

Step 1	Plan for a Sustainable Building
-	the Sustainability PLAN with professional advice. Complete the Easy \ nce Projects.
• Where p	possible, install SUB-METERS to show clearly where energy is being used
Step 2	Insulation: so your building needs less energy
• Identify steps.	Maintenance Projects (if any) to insulate ROOFS , balconies and WALLS.
 Identify 	Maintenance Projects (if any) to upgrade DOORS and WINDOWS . Imple
Step 3	Efficiency: so your building uses less energy
 Identify 	Maintenance Projects for your HEATING AND COOLING system(s), and
 Identify 	Maintenance Projects for your LIGHTING system(s), and implement t
• Identify	Maintenance Projects for your HOT WATER system(s), and implement
 Identify 	Maintenance Projects for your VENTILATION system(s), and implement
 Identify 	Maintenance Projects for your OTHER SYSTEMS , and implement th
Step 4	Renewables: so more of your energy comes from renewab
• Get prof	essional advice to confirm feasibility of RENEWABLE energy systems. Ic
 Get prof next steps 	essional advice to confirm feasibility of HEAT PUMPS as a replacement
 Identify 	systems you could switch to ELECTRICITY .
Step 5	Support Biodiversity and use less water
 Install ne steps. 	ew PLANTING areas. Get professional advice to confirm feasibility of
 Identify 	Maintenance Projects to reduce WATER USE, and implement these.

You can download this page with the Building Survey Tool from **RESOURCES**

Done?

Wins and implement the

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for boilers and chillers. Identify

GREEN ROOFS. Identify next

Advanced Building

To reach Advanced for your building:

Carry out a Capital Project

Step 1	Plan for a Sustainable Building
 Carry out a Capital Project(s) to achieve your Sustainability PLAN, raising function necessary. 	
 Monitor 	energy RECORDS to compare planned energy savings with actual o
Step 2	Insulation: so your building needs less energy
• Carry ou	t all possible works to improve insulation to ROOFS , balconies and
• Carry ou	t all possible works to upgrade DOORS and WINDOWS .
Step 3	Efficiency: so your building uses less energy
• Carry ou	t all works to make your HEATING AND COOLING system(s) as
• Carry ou	t all works to make your LIGHTING systems(s) as energy-efficient
• Carry ou	t all works to make your HOT WATER system(s) as energy-efficie
• Carry ou	t all works to make your VENTILATION system(s) as energy-effic
• Carry ou	t all works to make your OTHER SYSTEMS as energy-efficient a
Step 4	Renewables: so you make you're using renewable ener
• Install R	ENEWABLE energy generation systems, if they are part of your S
 Install H 	EAT PUMPS where feasible, if they are part of your Sustainabilit
• Switch sy	ystems wherever possible to ELECTRICITY .
Step 5	Support Biodiversity and use less water
• Installing	PLANTERS, planted areas and GREEN ROOFS wherever feas
 Install sy 	stems for recycling RAINWATER or GREYWATER wherever fe

You can download this page with the Building Survey Tool from **RESOURCES**

Done?

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outcomes.

WALLS.

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Sustainability Plan.

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Go to BUILDINGS RESOURCES

The Building Survey Tool and downloadable standards for ...

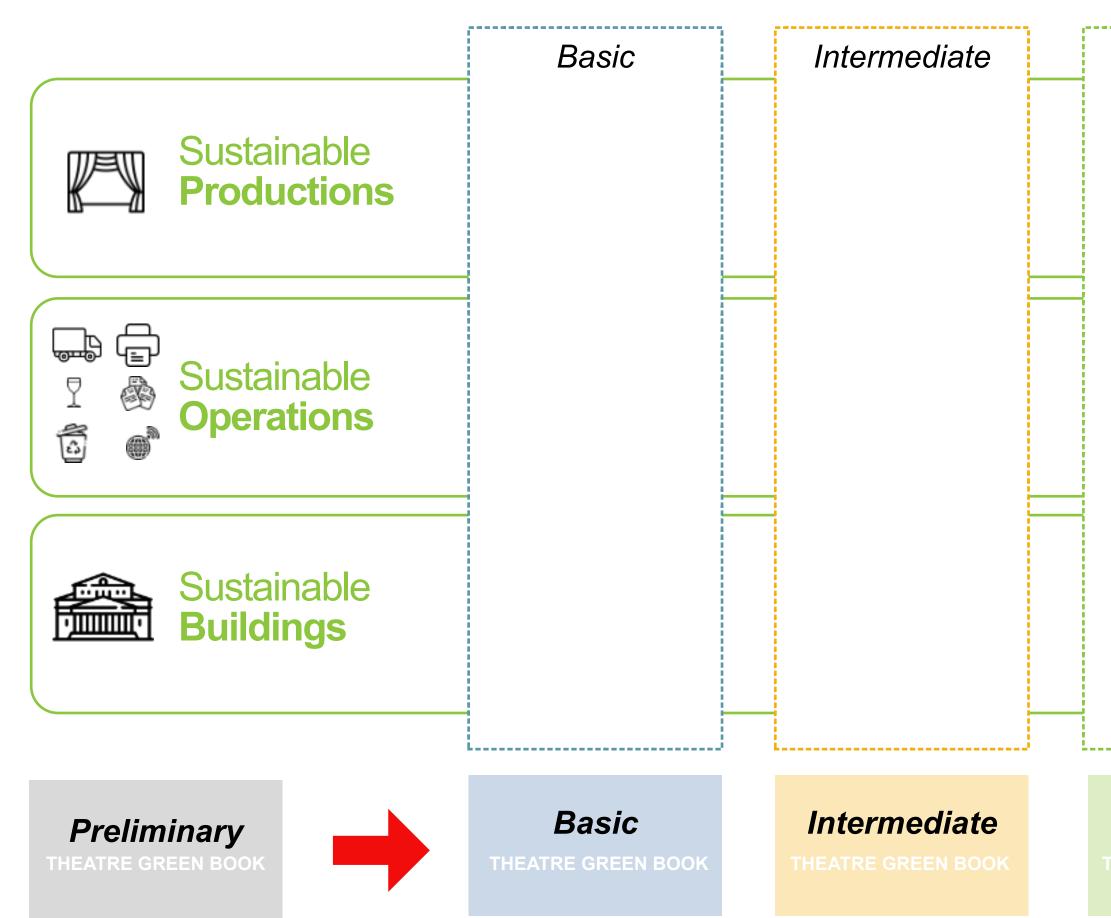
• Toolkits

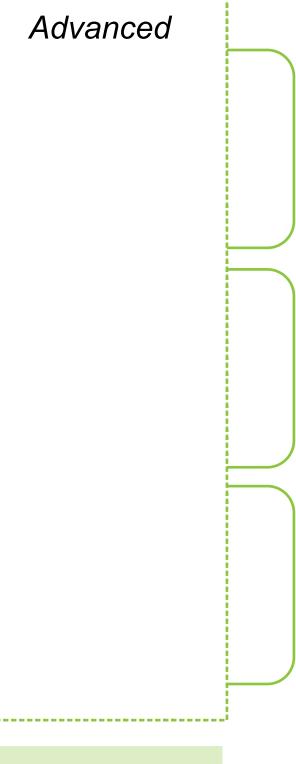
Go to Buildings resources



How do I measure progress?

Self-certify using the Theatre Green Book standards







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Preliminary THEATRE GREEN BOOK

How to Start :

Make a Commitment to sustainability, with

- A Timescale to reach Baseline.
- An immediate Action Plan.

Form a **Green Team** and develop a sustainability culture within your organisation.

Appoint someone to lead on **Data** gathering and someone to lead on **Communications**.

Preliminary

• COMMIT to reducing your environmental impact, and starting the transition to net zero.	It's essential to make sure your environmental commitment is clear to everyone.	
 Establish a GREEN TEAM including a sustainability lead, a member of the senior leadership team, and a lead for each area - Productions, Operations and Buildings – and key staff members. 	Leadership is key but a senior team is needed to decide which Theatre Green Book level to target, make change, involve staff and report progress.	
 Agree an ACTION PLAN setting out the steps you need to reach the next Green Book stage, and a timescale to achieve it. 	You must be clear on the key actions needed to deliver measurable progress towards the environmental goal.	
 Make a DATA PLAN to set out what you are going to measure and who is responsible. 	You need to be in a position to report and analyse your progress, to achieve each Green Book standard.	
 Set a COMMUNICATIONS PLAN to explain how you will share your targets and achievements, involving staff, partners and audiences. 	Sustainability needs a cultural change. Good communication helps everyone share the challenge.	

To reach Basic :

• All **Productions** target Basic and two thirds achieve it (only include in-house productions for which you have lead responsibility).

Basic

THEATRE GREEN BOOK

• You have a Sustainable **Operation** and have achieved Basic in 4 out of 6 areas.

• You have a Sustainability Plan for your **Building** (if applicable), and have implemented the Easy Wins in each area. (Include Easy Wins you have carried out in the past five years).

You can download this page from RESOURCES

Sustainable Production

Production

Production

Production

Production

Production

Production

Sustainable Operations

Paper and digital

Food,drink, retail

Managing the buildings

Reuse and recycling

Travel

Contracts and procurement

Sustainable Buildings

Easy win no. 1

Easy win no. 2

Easy win no. 3

Easy win no. 4

Easy win no. 5

Easy win no. 6

าร	Target?	Achieved?	

5	Organisation	

Plan	

Intermediate

To reach Intermediate :

• All **Productions** target Intermediate and two thirds achieve it (include productions where you are a co-producer).

• You have a Sustainable **Operation** and have achieved Intermediate in 4 out of 6 areas.

• You have developed the Sustainability Plan for your **Building** (if applicable), and have implemented the Maintenance Projects in each area. (Include Projects you have carried out in the past five years).

You can download this page from RESOURCES

Sustainable Production

Production

Production

Production

Production

Production

Production

Sustainable Operations

Paper and digital

Food, drink, retail

Managing the buildings

Reuse and recycling

Travel

Contracts and procurement

Sustainable Buildings

Maintenance Project no. 1
Maintenance Project no. 2
Maintenance Project no. 3
Maintenance Project no. 4
Maintenance Project no. 5
Maintenance Project no. 6

าร	Target?	Achieved?	

5	Organisation	

Plan	
	J



To reach Advanced :

• All **Productions** target Advanced and three quarters achieve it (include touring productions where you are a receiving venue).

• You have a Sustainable **Operation** and have achieved Advanced in all areas.

• You have achieved Advanced for your **Building** (if applicable).

You can download this page from **RESOURCES**

Sustainable Production

Production

Production

Production

Production

Production

Production

Sustainable Operations

Paper and digital

Food,drink, retail

Managing the buildings

Reuse and recycling

Travel

Contracts and procurement

Sustainable Buildings

Capital Project no. 1 Capital Project no. 2 Capital Project no. 3 Capital Project no. 4 Capital Project no. 5 Capital Project no. 6

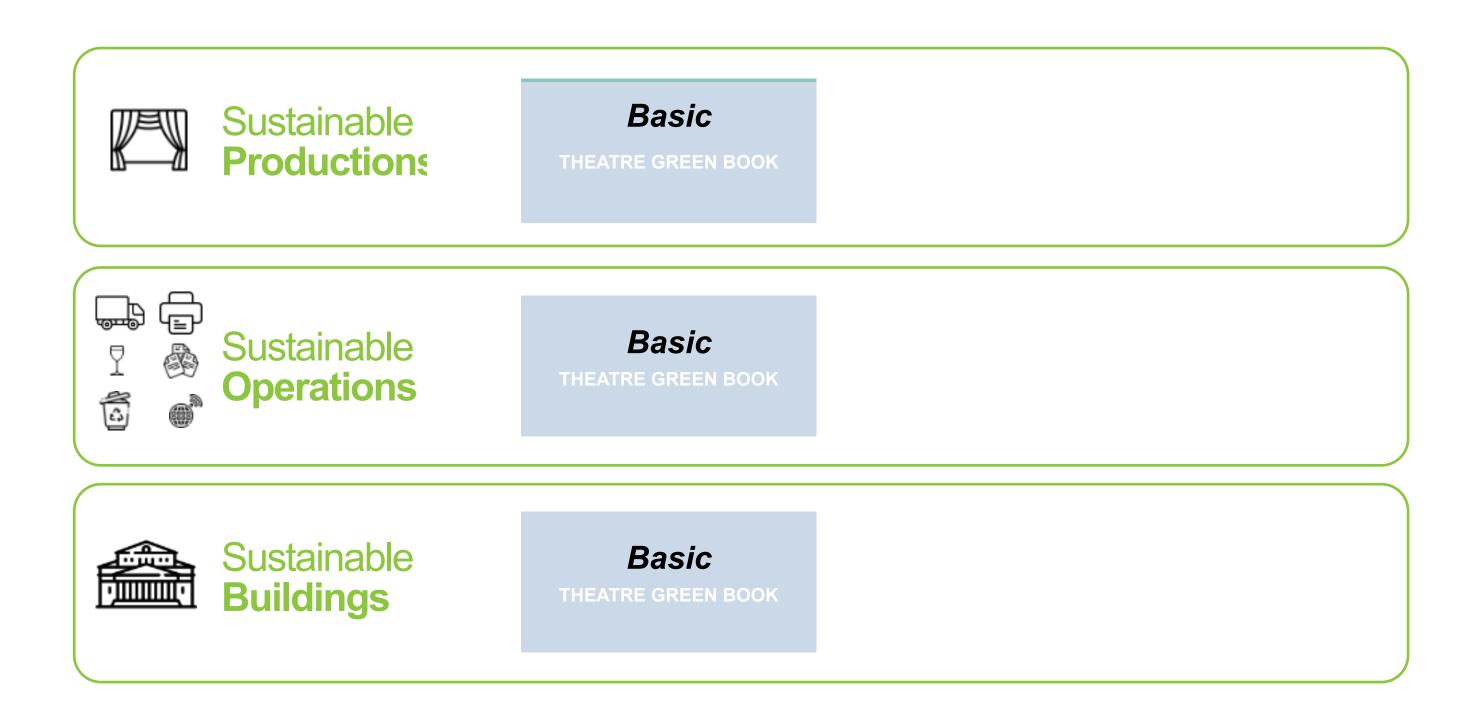
าร	Target?	Achieved?	

	[]	 \searrow
5	Organisation	

Plan	
]

How do I measure outcomes?

Assess your practice using the standards

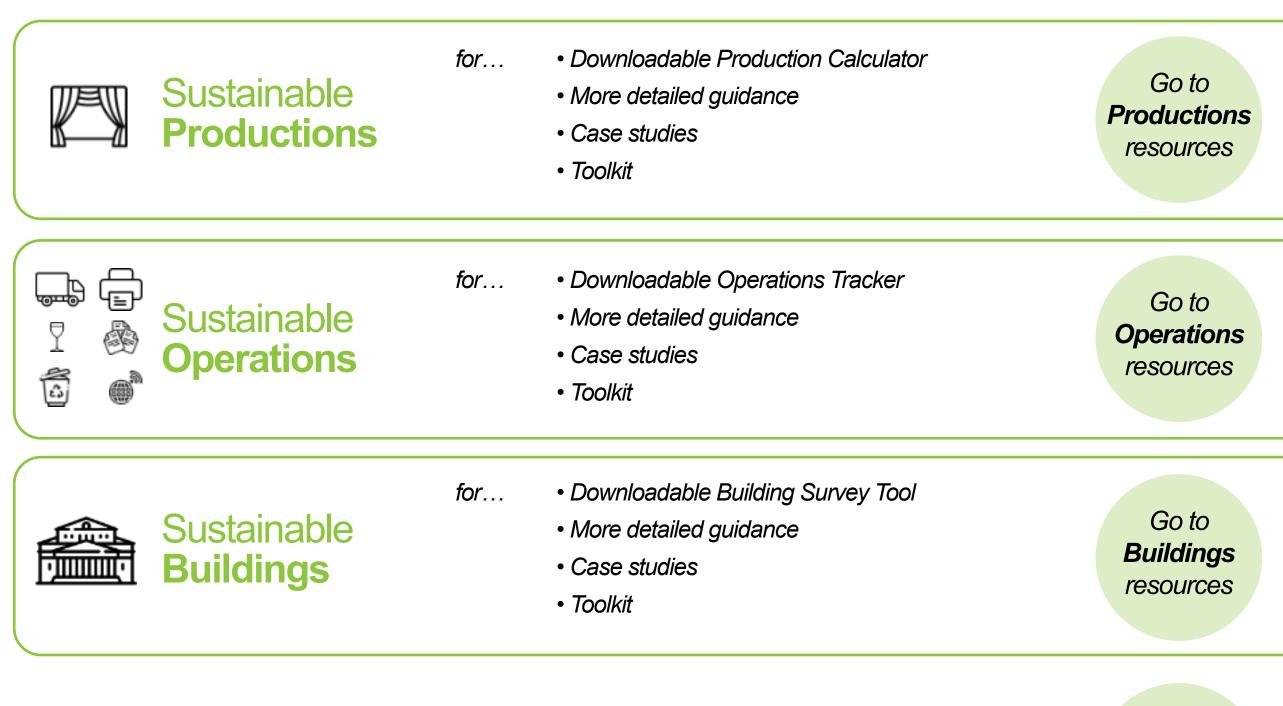


Measure circularity and carbon using the tools



What tools do I need?

You'll find all you need in the RESOURCES area



Certification

for... • Downloadable Self-certification forms

Sustainability Glossary



The Theatre Green Book is a pathway to climate and ecological sustainability.

It aligns theatre with UN Sustainable Development Goals:

- Goal 9 : Industry, Innovation and Infrastructure
- Goal 11 : Sustainable Cities and Communities
- Goal 12 : Responsible Consumption and Production
- Goal 13 : Climate Action

You need action on health, equality and justice to align theatre with all 17 UN Sustainable Development Goals.

https://www.undp.org/sustainable-development-goals

Acknowledgements and Thanks

Thanks

With very special thanks to the many individuals and organisations who have provided input and support in adapting this Irish edition, and especially to all those who developed the second UK edition of the Theatre Green Book.

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Many of the above are freelancers. Others work for:

ABTT, An Tobar and Mull Theatre, Arcola Theatre, Arts Council England, Arts Council of Wales, Arts University Bournemouth, Association for Lighting Production and Design, Association for Sound Design and Production, Association of Stage Managers, ATG, Baeredygtig Kulturliv NU, Bennetts Associates, Buro Happold, Bush Theatre, Central, Centro De Tecnologia Del Espectaculo, Charcoalblue, Chichester Festival Theatre, Citizens Theatre, Complicité, Creative Carbon Scotland, Creative Scotland, Creu Cymru, Curve Theatre, DTHG, Dutch National Opera and Ballet, Ecostage, English National Ballet, English Touring Opera, European Theatre Convention, Federation of Scottish Theatres, Fedora, Footprint Scenery, Forced Entertainment, GMAST, Green Adventures, Guildford School of Acting, Headlong, Independent Theatre Council, Indigo, Instituto Nacional de Artes Escénicas y de la Música, Irish Theatre Forum, LW Theatres, Lyric Theatre Belfast, Mind the Gap, National Theatre, National Theatre of Scotland, National Theatre Wales, Nederlandse Associatie voor Podiumkunsten, New Vic Theatre, Nimax, Nottingham Playhouse, Northern Stage, Oper Leipzig, Opera Europa, Opera North, Oxford Playhouse, PAV, Performing Arts Alliance Taiwan, Rambert, Renew Culture, Roundhouse, Royal Ballet and Opera, Royal Danish Theatres, Royal Exchange, Royal Holloway College, Royal Lyceum Theatre Edinburgh, Royal Shakespeare Company, SAIL, Salisbury Playhouse, Scottish Ballet, Scottish Conservatoire, Shift, Society of British Theatre

Designers, Stage Management Association, The Lowry, Theatre Alibi, Theatre and Dance Northern Ireland, Theatr Clwyd, Theatres Trust, UK Dance, UK Theatre / SOLT, Vereniging van Schouwburg- en Concertgebouwdirecties, Vereniging voor Podiumtechnologie, Wales Millenium Centre, Welsh Ballet, Young Vic, 1927.

We apologise if any names have been missed. Very many others have helped through the many theatre organisations, companies and freelance collectives who are working for sustainability, and whose thinking has contributed to this guide.

Triallers

Many theatres use the Theatre Green Book, and have offered feedback. We are grateful to all of them. A group of UK theatres has offered continual structured feedback to test the second edition and its support tools:

Chichester Festival Theatre, English National Ballet, Headlong, The Lowry, National Theatre, National Theatre of Scotland, Northern Stages, Opera North, Royal Ballet and Opera, Royal Shakespeare Company, SAIL, Shift, Wales Millenium Centre, Young Vic.

European Theatre Convention

The European Theatre Convention (www.europeantheatre.eu) has been instrumental in helping develop the new format of the Theatre Green Book, supported by a group of member theatres across Europe:

Toneel, Tilburg.

Icons are from Flaticon: https://www.flaticon.com/

Teatro Arriaga, Bilbao; Deutsches Theater, Berlin; Théâtre de Liège; Národní Divadlo, Praque: Det Norske Teatret, Oslo: Staatsschauspiel, Dresden; Toneelmakerij, Amsterdam; Young Vic, London; Het Zuidelijk Renew Culture are co-founders and co-authors of the Theatre Green Book. We have pioneered the growth of Green Book networks across the world, and are leaders in theatre's journey to sustainability.

https://www.renewculture.co.uk



Buro Happold is an international, integrated consultancy of engineers, consultants and advisers. After leading the construction industry in declaring a climate emergency, we've committed to reduce our own impact by achieving challenging science-based targets. We are collectively working towards an equitable and green future by adapting our business to mitigate climate change and the biodiversity crisis and helping others achieve their sustainability goals.

https://www.burohappold.com/about/

BURO HAPPOLD







through financial support - as well as to the many theatres, companies, and freelance theatre-makers who have supported the Theatre Green Book by donating their expertise and their time.

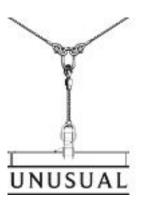
Foundation



Steel Charitable Trust



Pioneering design for over 30 years



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