



















Readings in Performance and Ecology



Edited by
Wendy Arons and Theresa J. May



Arts, the Environment, & Sustainability

Excerpted from Arts & America: Arts, Culture, and the Future of America's Communities





Key Concepts



An Evening with

William Shatner*

There is a special kind of art and a special kind of science that point to each other. In this special kind of art and science this is what happens:

Science makes data out of experience, and then art makes experience out of that data.

...a transition from not listening to me to...

Sustainability

"...About the accelerating deterioration of the human environment and natural resources and the consequences of that deterioration for economic and social development."

"Development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

- Brundtland Commission (1983)

The field of sustainable development has been broken down into three conceptual parts in support of this definition:

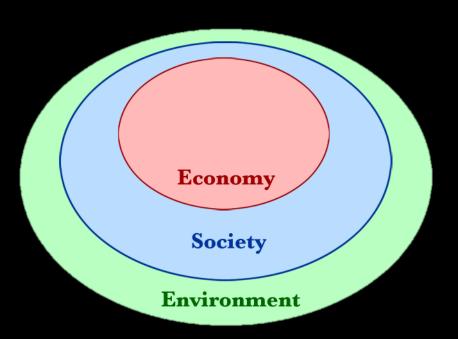
Environmental

Economic

Sociopolitical

True Assumptions about the Arts

- The Arts serve as a demonstrable community and social value building tool and a key driver of the reification of individual and community identity
- The arts are drivers of local economies with financial impacts as high as 4x on the dollar for public investment.
- When examined in the greater context of the environmental impacts of human activities where there is a choice between an arts/cultural experience versus other activity, the congregating effects of collective experiences trends towards improved impact metrics.



UN Sustainable Development Goals



Systems Thinking

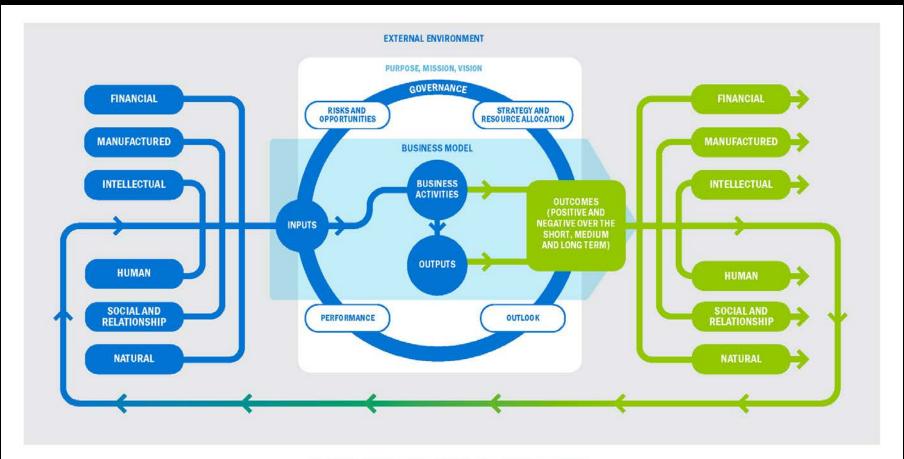
Understanding how things influence one another within a whole.

For example: ecosystems in which various elements such as air, water, movement, plants, and animals work together to survive or perish.

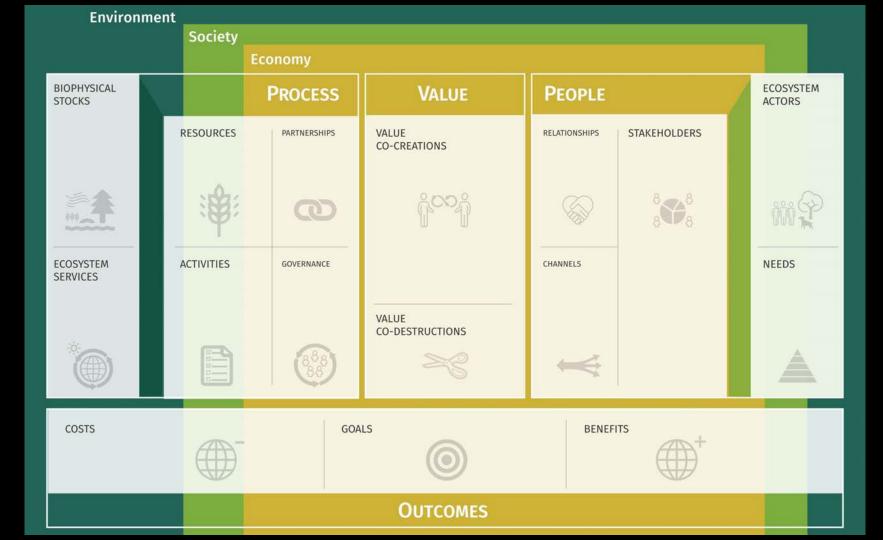
Wicked Problems

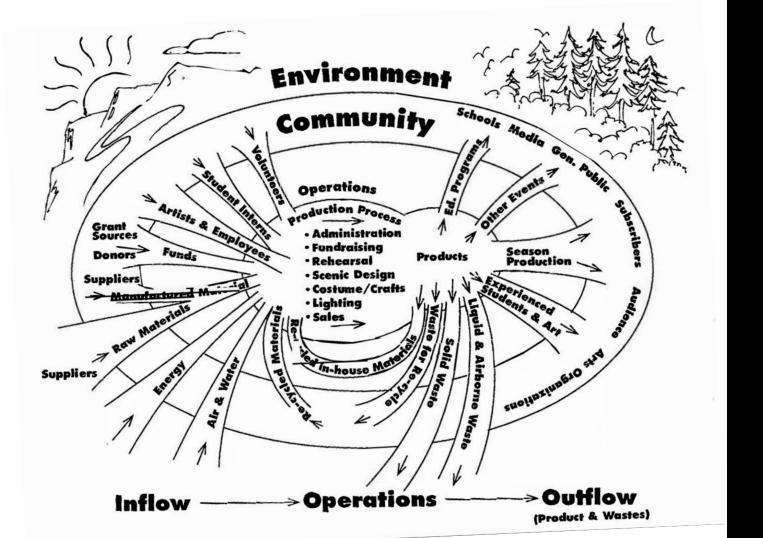
Problems that are difficult or impossible to solve because of incomplete, contradictory, and changing requirements that are often difficult to recognize.

Not evil, but resistant to resolution.

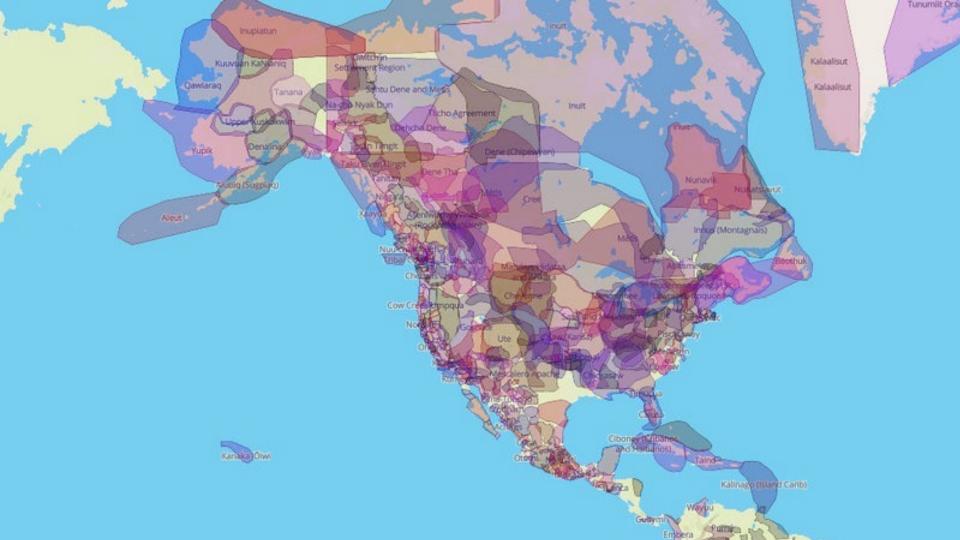


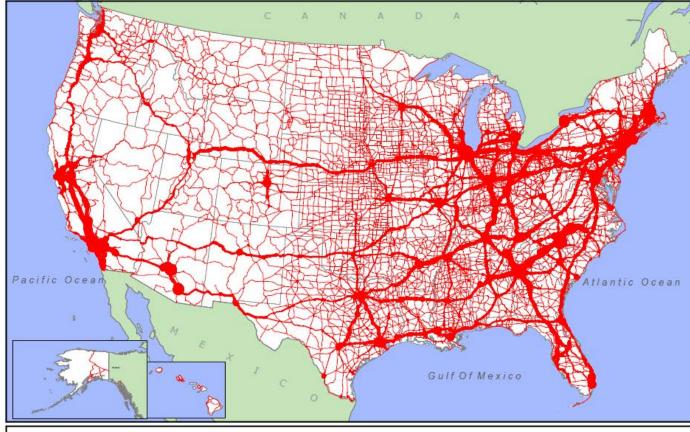
VALUE CREATION, PRESERVATION OR EROSION OVER TIME





Systems Tell Stories About Values

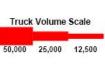


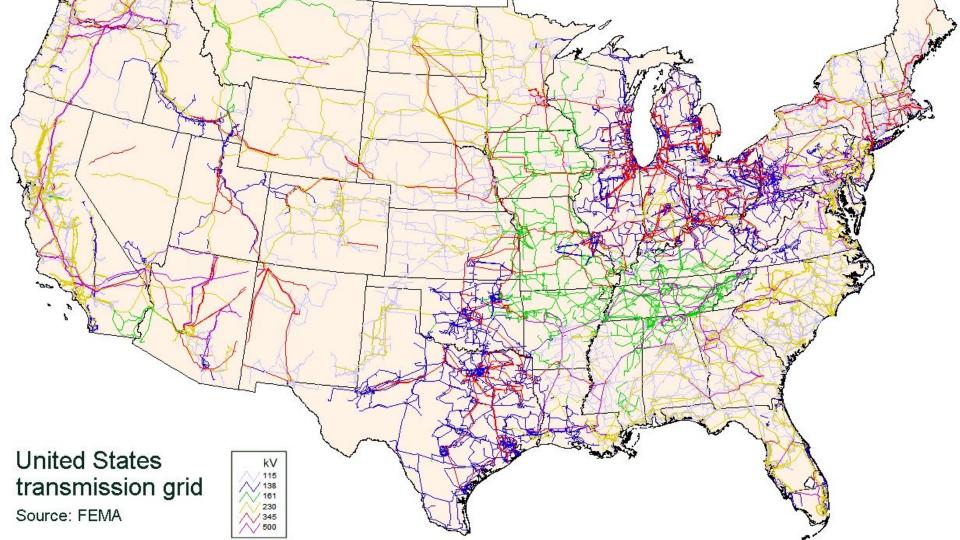


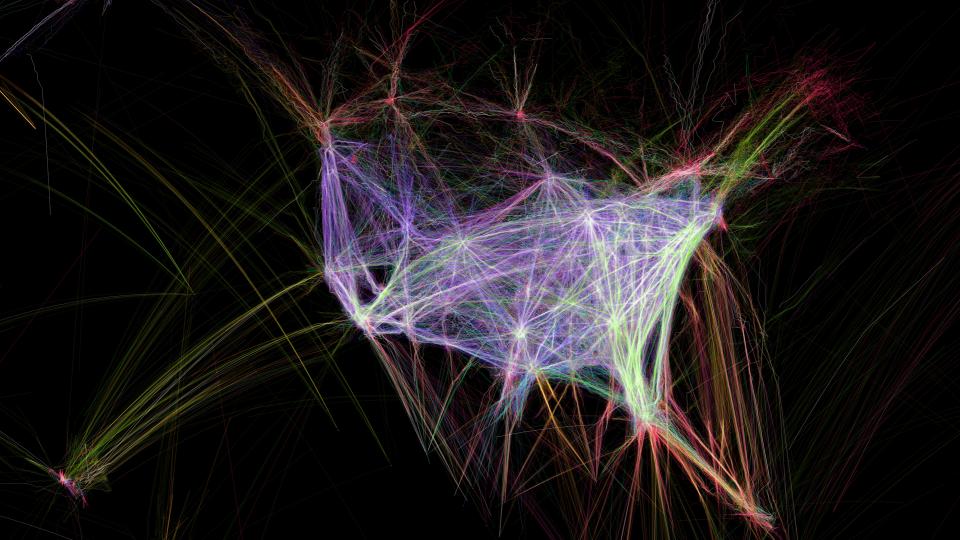


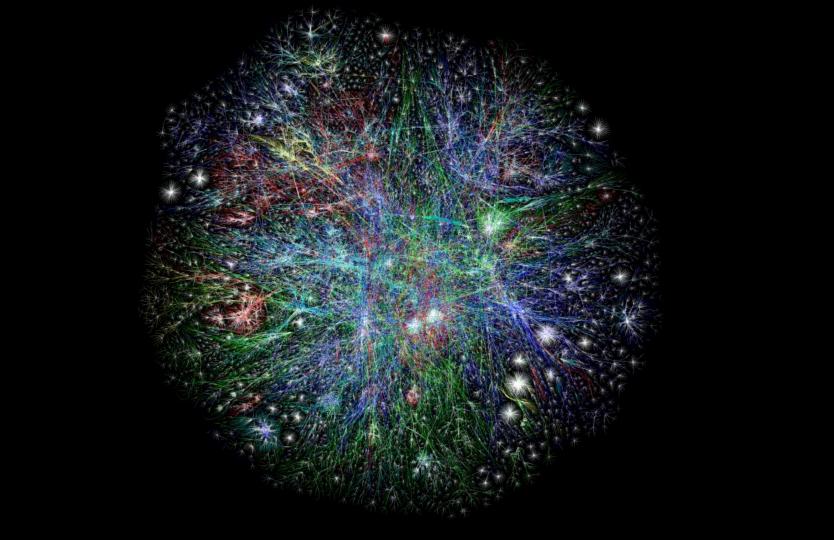
US Department of Transportation Federal Highway Administration Office of Freight Management and Operations Freight Analysis Framework Estimated Average Annual Daily Truck Traffic





















Vox Lumen









Embodied Carbon

Material extraction

Transport

Manufacturing

Transport Again

Use

Disposal





Embodied Carbon



Embodied Carbon

Laptop

2000 kWh Embodied Energy = $2300 \text{kg CO}_2 \text{e}$

Email

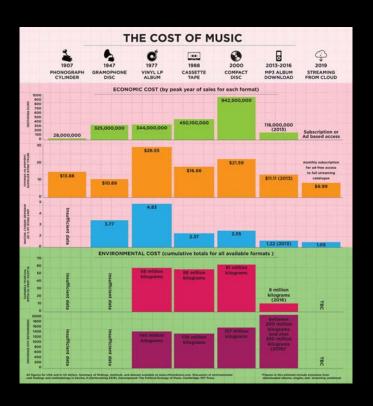
4g CO₂e

Email with big attachments

50g CO₂e



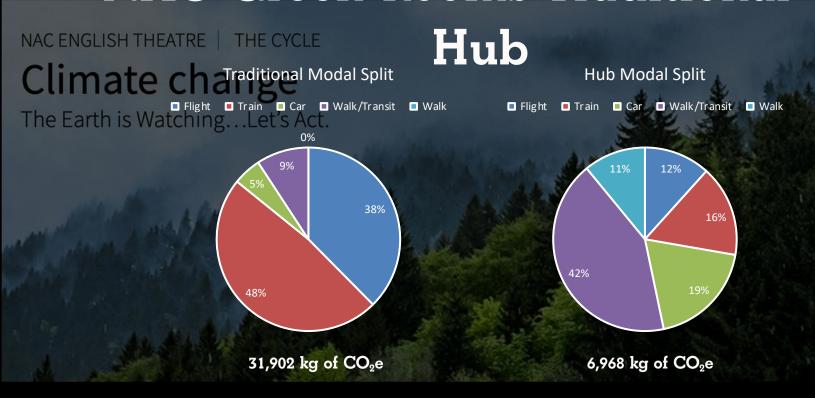
What is the cost of music in the so-called Anthropocene?



Music streaming has a far worse carbon footprint than the heyday of records and CDs

Matt Brennan & Kyle Devine
 The Conversation, April 9, 2019

NAC Green Rooms Traditional Vs



NAC Green Rooms Streaming

NAC ENGLISH THEATRE | THE CYCLE

Climate change

The Earth is Watching. Let's Act **Traditional** 31,902 kg of CO₂e

Hub Model 6,968 kg of CO₂e

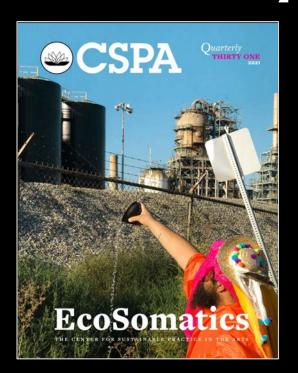
Stream
7.64 Kg CO₂e

With an estimated 78% reduction in emissions as a result of eliminating the majority of long-haul air travel through a distributed number of connected gathering hubs, moving to an online-only streaming format is estimated to reduce emissions by over 99% of either a traditional or a hub-based in-person format.

What is the CSPA?



CSPA Quarterly





Q38: Heal the Man, Heal the Land

Patricia Watts, founder and curator of ecoartspace, is editor of this issue, which includes essays on the mining of cobalt by Mary Mattingly and...



Q37: Interspecies Thresholds

How can we approach the nonhuman with authenticity? Resisting stereotype and symbolic simplification, can we instead move between the imperfect...



036: both/and

We live in times that are impure — confusing and compromised — and this requires contingent thinking and acting. What happens when artists get...



Q35: Decolonizing Ecologies

This issue of CSPA Quarterly destabilizes Colonial Settler perspectives in ecological art practices. By bringing together artists and writers who...



Q34: Bodies in Community

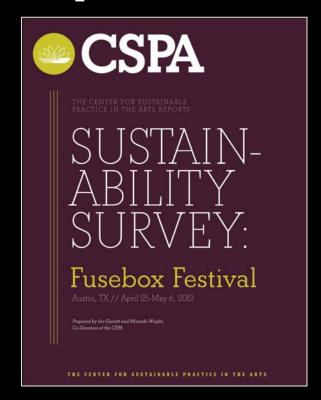
Bodies in Community explores how people move together: as an actual single body with its various markers in regards to a certain community or...

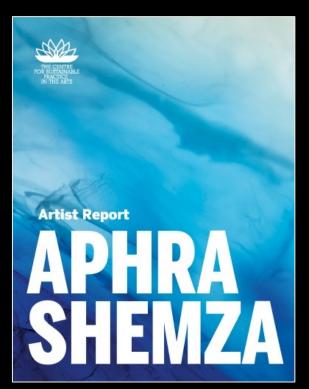


033: For a New Gentleness

In "The Three Ecologies," Félix Guattari asked to "organize new micropolitical and microsocial practices, new solidarities, a new gentleness,...

CSPA Reports





Creative Climate Leadership













Department of Utopian Arts and Letters

a project of public dreaming born out of desires for decolonization, climate justice, and collective liberation. It envisions Plural Utopias Of the Future (PUOF), each imagined through the radical thinking of diverse artists. DUAL operates within, across, and beyond official governmental and academic departments to empower us with visions of the future to work towards and the necessary "curricula" to dismantle the systems that stand in our way. It offers a free, public education for thriving futures designed by community expert artist "faculty" and organized by counterpart "librarians."

Creative Green Tools



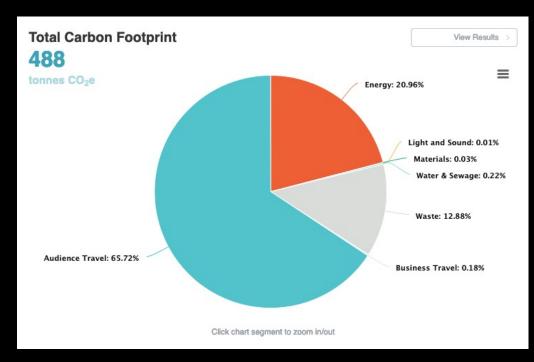


About the Tools



- Created in 2009 by Julie's Bicycle a UK-based charity that supports the creative community to act on climate change and environmental sustainability
- Built with the philosophy that creative industries have a unique ability to drive change
- Designed to be simple and accessible
- Have helped the arts and culture sector in England increase its awareness of environmental issues and reduce its carbon footprint by 41% over 6 years
- Continuously updated and co-created by the sector

Key Features



- Built according to the demonstrated needs of the sector
- Bilingual (EN/FR)
- Welcoming to Indigenous users & enriched by traditional knowledge
- Accessible
- Inclusive
- Free

Partners



Creative Green

- Julie's Bicycle
- Professional Association of Canadian Theatres (PACT)
- Écoscéno
- The Arctic Cycle
- Associated Designers of Canada (ADC)
- Association Des Professionnels Des Arts De La Scène Du Québec (APASQ)
- Association des théâtres francophones du Canada (ATFC)
- Canadian Institute for Theatre Technology (CITT/ICTS)
- Canadian Museums Association (CMA)
- Canadian Network for Arts and Learning (CNAL)
- CAPACOA
- Climate Emergency Unit
- Coalition of Museums for Climate Justice
- English Language Arts Network (ELAN)
- Indigenous Performing Arts Alliance
- le Conseil québécois du théâtre (CQT)
- Music Declares Emergency Canada
- Orchestras Canada
- Canadian Arts Coalition
- Supporting Performing Arts in Rural & Remote Communities (SPARC)

Benefits of the CG Tools

A solid foundation on which to build a wider environmental framework

A common platform facilitates collaboration and knowledge sharing

For some organizations, a concrete first step towards environmental engagement

Increased carbon literacy and awareness in the sector

Ability to set and collaborate on science-based targets

Community of practice and networks of engaged cultural professionals

Contributes to national and international benchmarking and data sets

Sets an example for other sectors, creating a positive ripple effect



IN THE ARTS

ABOUT US PROGRAMS

Quarterly Reports

Climate Change

Convergence

Fringe

SUBSCRIBE PARTNERS

LIBRARY

ARCHIVES

Recent Open Calls Submit

A Think Tank for Sustainability in

RESOURCE & TOOLS

- 1. Arts Certification, Guidance and Assessment
- 1.1. Arts:Earth Partnership
- 1.2 Centre for Sustainable Practice in the Arts
- 1.3 Creative Carbon Scotland
- 1.3.1. Green Arts Initiative
- 1.3.2. Carbon Management Tools
- 1.4. Creative Green Tools Canada
- 1.5. Julie's Bicycle
- 16 REFOCUS Harbourfront Centre
- 2 Exhibition

tainable practice.org/tools Theatre At SUSIGN ti

- 2.4. Ki Culture
- 2.5. OMSI (Oregon Museum of Science and Industry) Exhibition Design
- 2.6. STiTCH Sustainability Tools in Cultural Heritage
- 3. Film Production
- 3.1 albert
- 3.2. Environmental Media Association
- 3.3. Green Production Guide
- 3.4. Ontario Green Screen
- 3.5. ReelGreen Creative BC
- 4. Graphic Design, Printing, Publication
- 4.1. Re-nourish
- 5 Performance



CG TOOLS CANADA



QUARTERLY 38 FOR 2023!





International Tools/Guides Meet-Ups







bout Us

98

TC Theatres

Key Themes

Fundamental Course - Sustainable Cultural Management for European Theatres

A joint initiative of the European Theatre Convention and Mitos21

27 January - 30 June 2022. 6 sessions each lasting 2-3 hours

This course is open to all member theaters, creative teams and individual staff member departments of both theatre networks. It aims at offering the fundamentals of sustainal management and artistic creation processes. European theatre professionals will be en basic knowledge for tackling the transition to create a greener, more environmentally or mindful_just future, considering the most recent sectoral developments around the wo

The course consists of six sessions. Upon completion, each participant recieves a certi

Each session consists of an expert lecture with a O&A, breakout learning sessions, and rounds to share learnings.

Course Programme:

- 27 January: Introduction to Creative Climate Leadership and Embedding Sustain with Julie's Bicycle
- . 24 February: Artistic Visions for a Greener and More Just Future
- . 31 March: Tools for Sustainable Transformations in Theatre Buildings and Operat
- 28 April: Green Theatre Productions and Fair Collaboration & Touring
- 2 June: Communication, Digitalization & Creation of Public Debate
 30 June: Practice What You Preach Learning from Each Other

→ See full programme

The Sustainable Production Toolkit

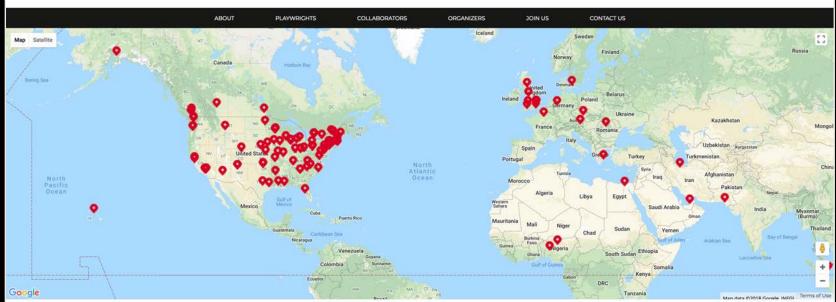
by-step guide for theatre practitioners to make your organization more sustainable post-C



Climate Change Theatre Action



Our Planet. Our Future. Our Responsibility.









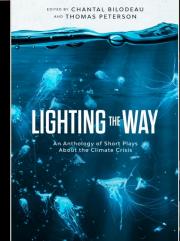




SHORT PLAYS ENVISIONING A GLOBAL GREEN NEW DEAL



COMPILED BY CHANTAL BILODEAU













Ecoscenographic Framework (Beer 2021)

Co-creation

...a form of engagement where theatre makers align themselves with place—to open up to the 'worlding' of collaboration that takes into account co-extensive histories and futures across venues, communities and materials...

Celebration

Ecoscenography nurtures the performance season not as an endpoint, but as a vibrant and highly visible celebratory mid-point in the creative process. We celebrate the emergence of the show, and we celebrate the stage as a platform for the meaningful communion, connection and crosspollination of culture and ideas...

Circulation

In Ecoscenography theatre materials and ideas are not mindlessly discarded, but considered as potential resources for sharing and co- creation beyond the production...Designing with circulation in mind allows theatre makers to consider how set and costumes may be dismantled and shared for reuse. Circulation becomes a form of contribution.. (Beer 2021, p. 115, 116, 122-3)



//