

**TOWN OF LOCKEPORT
COUNCIL MEETING
MONDAY, JANUARY 23, 2023 AT 1:00 P.M.
AGENDA**

1. Call to order

2. Silence Electronic Devices

3. Approval of Agenda

4. Approval of Minutes

- Regular Council Meeting Minutes January 9, 2023

5. Presentation

- Years of Service Presentation
- Gillian Kerr – Funding Programs (Page 1-22)

6. Development Agreement First Reading (Page 23-26)

7. Department Reports

- Community Coordinator Report (Page 27-35)
 - o Accessibility Coordinator Pilot Project Proposal
- Public Works Report (Page 36-37)
- Administration Report (Page 38-39)

8. Finance

- List of invoices already paid in the amount of \$17,798.88 (Page 40)

9. Other Business

10. Correspondence

11. Information Only

- Code of Conduct Consultation (Page 41-50)

12. Date of next meeting

- February 13, 2023 at 6:00 p.m.

13. “In Camera”

14. Adjournment

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Application Options for the Sustainable Communities Challenge Fund

GK

Gillian Kerr <gilliankerr@fastmail.fm>

To:

• You

+1 other

Cc:

• Lockeport Town Office
Tue 2022-12-20 11:10 AM

GILLIAN_KERR_CV_2022.docx
Saved to Email attachments

Good morning Mayor Nickerson,

Thank-you for the email and rational. I would like to apologise as I found out about the grant but had very little time to engage with the first deadline. I understand that there was not formal guidance. I had reviewed all the public documents for the work you have done and various options. I had a chance to speak with Dayle as we were both involved with the Dig-In Food Systems Summit. I admit I got very excited about the potential fit and benefit that the grant could have for Lockeport.

I wanted to let you know there is a second tranche of funding that will be available in the spring 2023. If you and the town are interested in developing a proposal that best meets your climate adaptation needs, I would be very interested in working with you and your team. I could start with providing a review of what you have done and what some key options could be based on your municipal and geographic circumstances.

I have a currently a contractor with a few groups, including the Centre for Local Prosperity. I am attaching my CV if you or others are interested in my background, expertise and applied interests about climate adaptation and using nature as a defense.

Here is the main link to the fund: <https://www.nsfm.ca/sccf.html>

1. NS Comm Sustain Grant 2023 Intake

Gillian and I are aiming to present at the Jan 23rd. This has been emailed such to the Mayor and Cc'd to Joyce

Right now what I'd like to share is:

- This new grant had first intake in Dec 2022. The next is spring 2023.
- Gillian and I have talked and Gillian has reviewed all publicly available climate related documents on Lockeport and surrounding area to understand what has been done, what some concerns/ priorities are and work the town has been looking into.
- Gillian would present about the grant, available streams to Lockeport and potential projects

based on all the information collected.

- Gillian will send the council a proposal document by January 16th to give you all a week to review.
- We can talk about fit and priorities at the Jan 23rd meeting.
- Next steps would be based on the council's decision and town's needs.

2. STARCAP MOOC (Massive open online courses) on climate adaptation

The Deanery and CLP were the successful applicants to run this STARCAP course in NS. This is an opportunity for Lockeport to do a bit of thinking and planning around climate adaptation (with Gillian as the lead for the program and a partner with the town).

We could blend it into the grant above. It would require 1 or 2 people (minimum) from the town to take the 7 online segments that Gillian will facilitate NS specific discussion circles.

I would like to do this with a student or person from the town. It is completely open to whomever would want to join me. Maybe someone on Council or Town staff?

The program kicks off January 29th and registration is now open for any and all in NS to join: <https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.starcapresearch.ca%2Fcanvas%2Fpreregister.php&data=05%7C01%7C%7C7c28bf62e67947613c1d08daf2600678%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638088791479639089%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=AZCo8EWKoiWzRA4gL6xJ%2Fnkdh8Nmx35WhDMAVK64mI4%3D&reserved=0>

GILLIAN KERR, PHD

CONTACT INFORMATION

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Edmonton,
AB, T5G1N8

E:
gilliankerr@fastmail.fm

P: 587-984-1784

L:
<http://bit.ly/2mVnifL>

RELEVANT AND DEMONSTRATED COMPETENCIES	
Integrating natural science, economics and social sciences for policy and planning	Building collaborative environments
Stakeholder relations	Strategic thinking and analysis

Interdisciplinary research	Project planning, budgeting and execution
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EDUCATION:

Doctor of Philosophy, University of Calgary, Calgary, Alberta, 2010-2018

Field of Study: Interdisciplinary Graduate Studies Program

Area of Specialisation: Environmental Governance. Critical analysis of the policy implementation gap in Alberta in using market- based instruments for environmental management.

Thesis Committee: University of Calgary: Prof. Arlene Kwasniak (Law), Dr. Rainer Knopff (Political Science), Dr. Lee Jackson (Biology). University of Lethbridge: Dr. Henning Bjornlund (Economics and Geography)

Masters of Environmental Management (Arts), Royal Roads University, Victoria, British Columbia, 2004

Thesis Title: The Design and Application of a Full Cost Accounting Framework on the Athabasca Oil Sands: A Case Study

Thesis Committee: Royal Roads University: Dr. Robert Gale (Economics), Dr. Jim McTaggart Cowan (Climate Change and Pollution Prevention). Pembina Institute (Amy Taylor) sponsor

Instructional Skills Workshop (ISW) Teaching in a Classroom (2009) and Teaching On-Line (2014) Royal Roads University, Completed. These 10-week courses provide instructors with the skills to teach face to face and on-line courses.

Bachelor of Environmental Science, Royal Roads University (Distinction), Victoria, British Columbia, 2000

Mount Allison University, Sackville, New Brunswick, Bachelor of Commerce in Marketing and Economics, 1994 (Outstanding Female Student)

PROFESSIONAL BACKGROUND AND SELECTED WORK HIGHLIGHTS:

EMPLOYMENT

Senior Research Associate. Conference Board of Canada. Sustainability Division.

October 2021 – present

- Advancing our understanding of how to achieve sustainable economic growth by examining how changes in our energy systems, built environment, mobility, and government policies can allow Canada to achieve its economic, quality of life, and environmental objectives.
- Lead for the Canadian Emergency Management Initiative (CEMI) and the Emergency Management Community of Practice (EMCoP). Upcoming Paper on

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“Resilient Society: Solutions for Canada’s Natural Disaster and Emergency Management Environment”

- National and International Award for “Strong Engagement, Strong Outcomes: An Engagement Indicators Playbook (2022)”.

Postdoctoral Fellow. Ocean Frontier Institute’s Future Ocean and Coastal Infrastructures (FOCI), Work Package 6, Dalhousie University, Halifax, NS

August 2020 – October 2021

- Coordinate the work of the Rural Futures Research Centre
- Monitor data collection in the surveys conducted in the Centre
- Help supervise and train students affiliated with the Work Package and Research Centre
- Publish results from data collected from FOCI Work Package 6 through various venues
- Promote the knowledge mobilization and dissemination of the Work Package and Centre’s work.

Postdoctoral Fellow. ResNet Theme 1, McGill University, Montreal, Qu

November 2019 – July 2020

- ResNet Year 1 Workshop design, development, implementation and reporting
- Relationship building with Landscape Researchers to establish workshop needs, understanding stakeholder and partner relationships, ecosystem service and trade-off research focus
- Project management for Theme 1
- Work with other Postdoc on research questions and methods
- Lead author of “Ecosystem services decision support tools: exploring the implementation gap in Canada”.

**Adjunct Professor, Royal Roads University, Victoria, BC, 2018 – present,
Associate Instructor, Royal Roads University, Victoria, BC, 2007-2018**

**Bachelor of Business Administration
(Sustainability) School of Business &
Sustainability**

Semesters: 2019, 2020

Course: ENSC423 Environmental Economics

School of Business & Sustainability

Course Development: ECON260 Ecological
Economics

Course start: Fall 2021

**Masters of Environment & Management
Program, School of Environmental and**

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Sustainability Semesters: Spring 2007, 2008,
Fall 2009, 2010, 2014-2020
Course: ENVR530 Economics for Decision Making

Masters of Environmental Practice

Program Semesters: Fall 2015,
2016
Course: ENVR 530 (On-Line) - Environmental Economics

Thesis Supervisor in Masters of Environment and Management Program

Six successfully completed master's student thesis between 2012-
2018
Current supervision of five students between (2021)

Workshop Presenter, Masters of Environment and Management Program

Semesters: Spring 2010 & 11 and
Fall 11/12
Ecosystem Services Case Study: Designer and Instructor in ENVR560
Critical Thinking with Dr. Glenn Brown

Canadian Parks and Wilderness Society (CPAWS) Northern Alberta, Communications Contract

October 2019 – June 2020– Communications Coordinator (contract)

- Developed a Government Relations manual
- Ran the CPAWS NA social media campaigns
- Developed a Strategic Communications Planning document and process
- Developed Communications Manual for CPAWS NA
- Set-up Communication, Engagement and Fund Development committees
- Developed an Institutional Memory capture process and templates
- Developed media templates

Government of Alberta – Political Appointment, Alberta New Democrats Party

August 2017 – April 2019– Manager and Ministerial Advisor to Minister of Municipal Affairs

- Political advisor and reviewer on policy and regulatory
- Cabinet and Committee briefings, presentations and analysis of related materials
- Responding to constituents, municipalities and industry on issues relating to Municipal Affairs
- General support for Minister and Chief of Staff

Government of Alberta - Alberta Environment, Edmonton, Alberta 2004 - 2015

May 2014 – Nov 2015 – Manager, Biodiversity and Ecosystem Services Team (BES)

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- Develop Team Vision and Workplan to include other groups including Central Modeling Office and Technology Sections
- Alberta lead for the Environment Canada lead Ecosystem Services Toolkit for Government
- Lead the Knowledge Transfer for ESRD from retiring section head to ensure knowledge capture and use for staff working on Biodiversity related work.
- Networking and building strategic relationships internally (e.g. Wetland Policy, Land-use Framework, regional planning and biodiversity management plan teams) and externally (e.g. ABMI, NAWMP, federal and municipal governments)
- Provide mentorship and learning opportunities to increase capacity in Biodiversity and Ecosystem Services
- Development of Biodiversity Policy for approval process

Sept 2011 – April 2014 – Developer and Manager, Ecosystem Services Program

- Led the development of Ecosystem Services program and team development
- Led, developed and project managed the Ecosystem Services Approach Pilot on Wetlands to contribute to Government of Alberta's Cumulative Effects Management System
- Published 13 reports on the Ecosystem Service Program work between 2008 and 2013.
- Technical expertise, project management and coordination of the 2013-14 Ecosystem Services White Paper for the GoA
- Led the development and implementation for delivery of the 10 year ES Roadmap (finalized 2010)
- Led the development of the Wetland Ecosystem Services Protocol tool for Alberta (WESPAB) that was incorporated into the 2013 New Wetland Policy.

Oct 2008 – Sept 2011 – Developer and Manager, Environmental Tools and Economics Team

- Developed Environmental Tools and Economics team and hired 9 multidisciplinary staff, including economists, policy analysts and tools specialists and ecosystem services advisors
- Developed and Lead the Water for Life – Water Strategy Economic Instruments team to look for options and opportunities to meet Water for Life goals through incentives
- Mentorship for largely new-to-government team of recent graduates
- Developed and released Alberta Environmental Tools Guide to assist government and non- government with the assessment, design and implementation of environmental policy tools. Access at: <http://bit.ly/2mv48xn>

May 2009 – Dec 2010 Secondment - Water Policy Branch

- Ministry Economics Lead (Secondment) Water Economics Manager, Water Allocation Project, Alberta Environment
- Departmental lead on the multi-stakeholder Water Council Water Allocation Transfer System Upgrade Project (WATSUP)

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Sept 2006 – Sept 2008 – Senior Advisor, Environmental Tools

- Developed Environmental Tools program, positions and hired a team
- Developed and launched the Environmental Tools Guide internally and externally to support the 2006 and 2007 Business Plans
- Developed and managed Alberta Environment Business Plan Performance Measures on environmental tools

Jan 2004 – Sept 2006 – Executive Priority Issues Coordinator to Northern Region Executive Director

- Prioritized many concurrent issues, Action Requests and briefings for Director to executive and staff
- Coordinated and integrated with two other regions and water management operations to ensure operational consistency
- Developed opportunities for 120 plus staff to engage and build trust

Environmental Scientist – Bel-MK Engineering, Calgary - Oct 2000 – Dec 2003

- Collection, interpretation and reporting of groundwater and surface waters sampling programs
- Performed Phase 1 and 2 environmental impact assessments throughout Alberta
- Client development and support
- Proposal development

PUBLICATION AND PUBLIC DOCUMENTS

Academic Publications

Kerr, G, Hotzer, J.; Baird, J. & G. Hickey. On the uptake of ecosystem services decision support tools by government actors in Canada. *Facets*. <https://doi.org/10.1139/facets-2020-0090>

Kerr, G. & Brown, G., Exposing the Market-Based Instrument Implementation Gap Alberta's Environmental Governance System. Manuscript in preparation.

Kerr, G. & Bjornlund, H., (2018). The social discourses on market-based instruments to manage non-point-source water pollution in the Oldman River Basin, southern Alberta. *Water International*, 43:3, 336-348. DOI: [/10.1080/02508060.2018.1429882](https://doi.org/10.1080/02508060.2018.1429882)

Kerr, G. & Bjornlund, H., (2012). Market Based Instruments: Issues and Opportunities for Agriculture and Water Quality Services in Alberta, Canada. *Sustainable Irrigation and Drainage IV: Management, Technologies and Policies*. Edited By: H. Bjornlund, C.A. Brebbia & S. Wheeler. Pp. 257-239.



Kerr, G. & Bjornlund, H., (2012). Case Study, Scenarios and the Exploration of Human Subjectivity for Market-based Instrument Success: An Integrated Framework. *Environmental Impact*. WIT Press. Pp. 423-434.

Kerr, G. & Bjornlund, H., (2011). Understanding the Acceptance of Market-Based Instruments for the Ecosystem Service of Water Quality. *Transactions on Ecology and the Environment*, Vol 153. WIT Press. Pp. 173-184.

Selected Government Publications

Preston, S. & Raudseep-Hearne, C. (2017). Completing and Using Ecosystem Service Assessment for Decision-Making: An Interdisciplinary Toolkit for Managers and Analysts Value of Nature to Canadians. Study Taskforce Federal, Provincial, and Territorial Governments of Canada. Ottawa, Ontario. Retrieved from http://publications.gc.ca/collections/collection_2017/eccc/En4-295-2016-eng.pdf

Raudsepp-Hearne, C., Classen G. & Kerr, G. (2012). The Ecosystem Services Approach Pilot on Wetlands: Integrated Results Report. Retrieved from <https://www.canadianfga.ca/wp-content/uploads/2013/12/ES-approach-pilot-on-wetlands-in-AB.pdf>

Raudsepp-Hearne, C. & Kerr, G., (2011). Ecosystem Services Approach Pilot on Wetlands: Operationalizing an Ecosystem Service Approach within the Government of Alberta: Steps and Lessons Learned November 2011. Retrieved from <http://catalog.ipbes.net/assessments/29>

Brown, G. & Kerr, G. (2008). How valuation contributes to policy options, decision making and water management. Vancouver BC: Arbutus Institute for Alberta Environment Policy Branch.

AWARDS AND SCHOLARSHIPS

- 2012 Sustainable Resource Development Ministry nomination (nominated by Scott Millar's) for the ES Pilot on Wetland work 2012
- 2012 Special invitation to the TEEB (The Economics of Biodiversity and Ecosystem Services) conference in Leipzig, Germany) for ES Pilot on Wetlands work and accomplishments
- 2012 ISSSS scholarship to the academic conference in Birmingham England
- 2011 Special Invitation to David Suzuki Foundation to present on the Alberta Ecosystem Services Wetlands work
- 2009 (PhD) Canadian Water Network Scholarship (\$25,000 for three years)

Government Teaching and Mentoring

- Environmental Tools GoA Workshop (2007) Developed and led a 100 person GoA workshop on Environmental Tools

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- Market-based Instruments Sessions (2006-10) Developed and led a series of presentations on Market based Instruments to inform Land Use Framework and other projects within ESRD and GoA
- Mentoring (2006-present) Mentor to 4 ESRD staff outside of my teams at their request
- Education and Outreach Tool (2008-2015) Developed education and outreach materials and advisory groups for staff mentorship on Ecosystem Services, Environmental Tools and Market- based Instruments

SERVICE TO THE COMMUNITY

- CANSEE (Canadian Society for Ecological Economics) VP Communications (2019 - present)
- Monthly environmental article contributor, Rat Creek Press local newspaper (2019-present)
- Co-lead of the Environment Committee for the Alberta NDP, official opposition (2019-2020)
- Community cat rescue team member. Volunteer group working to spay and neuter and rehome feral and abandoned cats in the Norwood area of Edmonton (2008-present)
- Bissell Center Board of Governors (2007-2013) and volunteer (2006-present). Edmonton non-profit focusing on serving the homeless and working poor.
- Hervey Foundation for Cats, board member, volunteer and event coordinator (2013- 2015). A no-kill cat rescue.
- Norwood Neighbourhood Association President (2006- 2014), Edmonton, Alberta. Local Edmonton neighbourhood association focusing on community engagement and betterment.
- Institute for Professional Environmental Practice (IPEP) Board (2000-2009). On international marketing committee. Started Alberta chapter of IPEP.

SCCF Lockeport Proposal Appendices

Appendix A Infrastructure Programs and Funds Available for Nova Scotia (Potential Stacking Opportunities)

Investing in Canada Infrastructure Program

To address the challenges faced by communities as a result of COVID-19, the over \$33-billion Investing in Canada Infrastructure Program, delivered through bilateral agreements with provinces and territories, now includes a COVID-19 Resilience stream, offers expanded project eligibility and allows for accelerated approvals.

The amended bilateral agreement between Canada and Nova Scotia, reflecting recently announced flexibilities, expanded project eligibility and accelerated approvals, was signed by both parties. Visit the [COVID-19 Resilience stream](#) page for more information.

The Investing in Canada Infrastructure Program provides long-term, stable funding to:

- Help communities reduce air and water pollution, provide clean water, increase **resilience to climate change** and create a clean-growth economy
- Build **strong, dynamic and inclusive communities**, and
- Ensure Canadian families have **access to modern, reliable services** that improve their quality of life

Canada Community-Building Fund

As of has been renamed the Canada Community-Building Fund (CCBF) (formerly the Gas Tax Fund until June 29, 2021). The Canada Community-Building Fund (CCBF) is a **permanent source** of funding provided up front, twice-a-year, to provinces and territories, who in turn flow this funding to their municipalities to support local infrastructure priorities. **Municipalities can pool, bank and borrow against this funding, providing significant financial flexibility.**

The Canada Community-Building Fund delivers over \$2 billion every year to 3600 communities across the country. In recent years the funding has supported approximately 4000 projects each year. Communities select how best to direct the funds with the flexibility to make strategic investments across the following 19 different project categories:

public transit
wastewater infrastructure
drinking water
solid waste management
community energy systems
local roads and bridges
capacity building
highways



local and regional airports
short-line rail
short-sea shipping
disaster mitigation
broadband and connectivity
brownfield redevelopment
culture
tourism
sport
recreation
fire Halls

Disaster Mitigation Adaptation Fund

The Disaster Mitigation and Adaptation Fund is a \$3.375 billion national merit-based program that supports large-scale infrastructure projects to help communities better manage the risks of disasters triggered by natural hazards. Disaster Mitigation Adaptation Fund projects in Nova Scotia:

- Construction upgrades within the Bay of Fundy for the protection of 60 communities (See project announcement news release)
- Upgrades to Dykes and Aboiteaux for the protection of the Towns of Windsor, Falmouth, and surrounding areas (See project announcement news release)
- Smart Cities Challenge

The Smart Cities Challenge is a pan-Canadian competition for communities large and small that encourages communities to adopt a smart cities approach to improve the lives of their residents through innovation, data and connected technology.

Over 200 communities from across Canada participated in the first round of the Challenge, putting forward their ideas, which were adjudicated by an independent jury. In Nova Scotia, the Town of Bridgewater advanced to the finalist stage and was announced as one of the winners of the Challenge on May 14, 2019. Visit the Map of Applicants for more information.

Other Infrastructure Canada Programs

The following programs ^{Footnote2} also support impactful infrastructure projects that contribute to a cleaner environment, stronger communities and Canada's economic growth:

- New Building Canada Fund – Provincial-Territorial Infrastructure Component – National and Regional Projects
- New Building Canada Fund – Provincial-Territorial Infrastructure Component – Small Communities Fund
- Clean Water and Wastewater Fund
- Public Transit Infrastructure Fund

Programs Delivered by Federation of Canadian Municipalities

The Government of Canada and the Federation of Canadian Municipalities are investing in projects across Nova Scotia to build stronger communities through the following programs:

- Green Municipal Fund, supporting capital projects that improve air, water and land and reduce GHG emissions.
- Municipalities for Climate Innovation Program, helping communities adapt to climate change and improve resiliency with help from programs, tools, and training.
- Municipal Asset Management Program, offering funding, training and resources to help municipalities strengthen asset management practices.

Program Delivered by Community Foundations Canada

Canada Healthy Communities Fund is a \$31 million investment to transform public spaces in response to COVID-19.

Programs Delivered by Other Government Departments and Agencies

Government of Canada investments in infrastructure go beyond Infrastructure Canada, and achieving the objectives of the long-term plan require a collaborative effort. These investments are being made by 14 federal departments and agencies. To find out which programs are available, consult the Investing in Canada plan Funding Update table.

Appendix B Relevant NS Government Commitments

There is a list of other relevant supports the NS Government has committed to that Lockeport could benefit from including the Climate Change Plan for Clean Growth (p. 13 onward).

- Increase climate change adaptation capacity in communities and business sectors by supporting them in hiring their own climate change coordinators to help develop and implement climate change adaptation strategies.
- Support the fisheries and aquaculture sector to complete climate change vulnerability assessments on important infrastructure and develop sector-specific adaptation plans.
- Strengthen and coordinate responses to coastal and inland flood risk by investing in natural flood protection and implementing new regulations under the *Coastal Protection Act* in 2023.
- Create a new fisheries and aquaculture energy efficiency innovation fund and new fisheries and aquaculture climate change adaptation fund to help prepare the fisheries and aquaculture sector to reduce their energy use and better prepare for the impacts of climate change.
- Bring key partners together to plan for responses to multiple climate risks facing our natural, built, human, social, and financial systems.
- Raise awareness of climate risks and adaptation priorities across Nova Scotia through public education and engagement on the results of the climate change risk assessment and other important climate change data and information.

Appendix C Government of Nova Scotia Links to Support Climate Mitigation and Adaptation

[The Environmental Goals and Climate Change Reduction Act](#)

[The Environment Act \(PDF\)](#)

[Climate Change Nova Scotia](#)

[Clean Future - Public Consultations Report](#)

[Nova Scotia Climate Risk Assessment](#)

[Nova Scotia Coastal Protection Act](#)

[Nova Scotia Parks and Protected Areas](#)

[News Release on Green Hydrogen Development](#)

[Nova Scotia Environmental Assessment Process](#)

Appendix D Programs and Resources for NS Individuals and Homeowners

[FloodSmart Canada – Flood Plain Maps](#)

[Energy Assist](#)

[HomeWarming](#)

[Affordable Multifamily Housing Program](#)

[Home Energy Assessment Program](#)

[Mi'kmaw Home Energy Efficiency Project](#)

[SolarAssist](#)

[Solar Power Rebate Programs](#)

[EVAssist- Electric Vehicle Rebate Programs](#)

[Next Ride](#)

[Clean Foundation Workforce Development Programs](#)

[NSCC Solar Photovoltaic Panel Installation Training program](#)

Appendix E Programs and Resources for Businesses, Municipalities, and Organizations

[Presentation to the Canadian Institute of Planners \(November 25, 2020\) on the Flood line Mapping Project \(PDF\)](#)

[FloodSmart Canada – Flood Plain Maps](#)

[Maritime Coastal Flood Risk Map](#)

[SolarAssist](#)

[Solar Power Programs](#)

[Nova Scotia Power Self-generation Options](#)

[Nova Scotia Rate Base Procurement \(372 MW of new wind\)](#)

[Green Choice Program](#)

[EVAssist](#)

[Next Ride](#)

[Sustainable Communities Challenge Fund](#)

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[Low Carbon Communities Funding Program](#)

[Halifax Climate Investment, Innovation, and Impact Fund \(HCI3\)](#)

[Innovation Rebate Program](#)

[Nova Scotia Clean Technology for Agriculture Program](#)

Appendix F For More Information on Climate Change

[Canada's National Adaptation Strategy: Building Resilient Communities and a Strong Economy](#)

[Canadian Climate Institute](#)

[CLIMAtlantic](#)

[A Healthy Environment and a Health Economy – Canada's Strengthened Climate Plan](#)

[2030 National Emissions Reduction Plan: Clean Air, Strong Economy](#)

[Canadian Energy Regulator – Nova Scotia Energy Profile](#)

[Efficiency Canada & the Canadian Energy Scorecard](#)

[Nova Scotia Power – How We Produce Electricity](#)

[Solar Nova Scotia](#)

[Bicycle Nova Scotia](#)

[Nova Scotia Blue Route](#)

[Efficiency Nova Scotia](#)

[Clean Foundation](#)

[Passive House Canada](#)

[Canada Green Buildings Council](#)

[ReCover Initiative](#)

[Dalhousie Energy Leaders in Sustainability program](#)

[Verschuren Centre for Sustainability in Energy and Environment](#)

Town of Lockeport Council Sustainable Communities Challenge Fund Grant Proposal

Proposal Developed by: Dr. Gillian Kerr, Ecological Economist and Researcher with the Centre for Local Prosperity, in discussion with councillor Dayle Eshelby. Submitted January 16, 2023.

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Overview of program

The Sustainable Communities Challenge Fund (SCCF) is a new 2022 NS government grant program for local action on climate change in Nova Scotia. It supports A) individual community efforts to reduce or remove greenhouse gas emissions, or B) community preparation for and to respond to the impacts of a changing climate.

The Fund intends to put financial resources into the hands of Nova Scotia’s municipalities, First Nations, non-profits, and post-secondary institutions for local action on climate change. The core objectives are to:

Mitigation: Support the implementation of initiatives that avoid and reduce greenhouse gas emissions and contribute to Nova Scotia's targets for emission reduction.

Adaptation: Improve community capacity to adapt in an ongoing way to the changing climate and implement projects that help reduce vulnerability and exposure of human and natural systems.

The [Application Guide](#) provides full details.

Program Goal(s)

The **goal** is to help communities implement the climate action they have decided is important to them. The Fund is a goal of the [Nova Scotia Environmental Goals and Climate Change Reduction Act \(EGCCRA\)](#).

The Sustainable Communities Challenge Fund is helping Nova Scotia reach its reduction targets of 53% below 2005 levels by 2030, and net-zero by 2050. It is also aligned with [the Climate Change Plan for Clean Growth](#) released at the end of 2022. The fund also expects there will be some co-benefits such as to:

- Enhance social equity and reduce barriers to an equitable climate response.
- Generate local, green jobs, and grow the clean inclusive economy.
- Reduce costs and improve affordability.
- Build and contribute to community wellbeing and health.
- Work with, protect and enhance natural assets.
- Contribute to a broader long-term shift and build capacity for future climate change action.
- Generate shareable knowledge and support replication in other communities in Nova Scotia.
- Otherwise benefit a community or group of communities.

Eligibility

Municipalities (e.g., Lockeport) and non-profits (e.g., the Centre for Local Prosperity) are eligible to apply on a wide range of projects that are eligible for funding, from renewable energy, to public outreach initiatives, to coastal restoration. The fund is divided along two streams of grant funding: mitigation and adaptation.

Funding Model

This grant is financed through the Green Fund and is connecting to a number of NS government commitments. There has never been more money at the provincial or federal level for communities to act, and act in ways that are specific to their needs.

The Fund provides non-repayable grants **between \$75,000 and \$1-million** in a series of competitive funding cycles (e.g., Dec. 2022, Spring 2023). In the first tranche (Dec 2022), 65% of the over 100 applications were for mitigation with about 35% being adaptation.

A minimum of 20% of eligible project costs must be contributed by the applicant through in-kind and half cash contribution. The financial contribution may be made by project partners or alternate funding sources such as federal funding. In-kind contributions such as staff time can count toward the 10%.

Projects with total eligible costs of:

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- Up to \$249,999 will require a contribution of at least 20% of eligible project costs
- \$250,000 - \$499,999 will require a contribution of at least 30% of eligible project costs
- \$500,000 + will require a contribution of at least 40% of eligible project costs

Other Funding Options

The SCCF fund allows for stacking, or combining with other funding programs. Here are a few other Programs and Funds available for Nova Scotia that we could look into. Appendix A provides an overview of each.

- Investing in Canada Infrastructure Program
- Canada Community-Building Fund
- Disaster Mitigation Adaptation Fund
- Smart Cities Challenge
- Other Infrastructure Canada Programs
- Programs Delivered by Federation of Canadian Municipalities
- Program Delivered by Community Foundations Canada
- Programs Delivered by Other Government Departments and Agencies

There is a list of other relevant supports the NS Government has committed to that Lockeport could benefit from including [the Climate Change Plan for Clean Growth](#) (p. 13 onward). These are detailed in Appendix B. There are also other supports and resources listed in Appendix C-F in the second document.

Choosing a Stream:

Based on the documentation I was able to review about research and work done in Lockeport and the town's needs, my recommendation is that we apply under the **Adaptation Stream**. Therefore, I have put more time into specific ideas and possible projects for Lockeport under this stream. However, it would be the council that would make this decision based on their priorities and needs.

Mitigation

Hon. Timothy Halman, Minister of Environment and Climate Change, "Reducing greenhouse gas emissions here in Nova Scotia is a critical part of the global effort to slow climate change". In 2020, nearly all (88 per cent) of greenhouse gas emissions came from the use of fossil fuels for electricity generation, transportation, and heating buildings.

The Sustainable Communities Challenge Fund will fund mitigation projects in five focus areas. Please go to p. 10 of the [Application Guide](#). Gillian will go into more detail in her presentation on Jan. 23rd.

1. Buildings
2. Transportation
3. Energy generation and storage
4. Waste management and circular economy
5. Carbon storage and sequestration

Adaptation

Hon. Timothy Halman, Minister of Environment and Climate Change "we need to improve our ability to be responsive and prepared for changes in the climate that will impact us to avoid further damages and losses."

A coastal vulnerability study noted that in Lockeport that sea level rise and storm surge will have extensive negative impacts including erosion, inundation and flooding. Based on the reports and data about Lockeport now and into the next few decades there is a logical opportunity to focus on infrastructure.

The Adaptation Stream includes a wide range of project types, including ([Application Guide, starting page 13](#)):

1. Built environment and climate-ready infrastructure. Where applicable, preference will be given to nature-based or ecosystem-based solutions (e.g., natural berms, in situations where there are viable alternatives to hard infrastructure. Any hard infrastructure solutions must also demonstrate they are adaptive.
2. Ecosystems projects that protect, restore and manage land, freshwater, and coastal ecosystems.
3. Community coordination and planning that increases understanding of climate impacts and lay the foundations for wider efforts toward adaptive capacity.

Gillian's Draft Proposal for SCCF Grant Submission

Lockeport Potential SCCF Focus:

This proposal focuses on three types of climate adaptation infrastructure: built infrastructure, nature-based infrastructure and social infrastructure. It focuses on these as a trifecta of solutions to build on the work and needs of Lockeport to adapt to climate change, reduce its vulnerabilities and exposure to people, the town and the natural systems.

Fund Financial Ask

\$200,000 to \$249,000 over 1.5-2 years under the Adaptation Stream. This would require ~ \$20,000 in-kind and \$20,000 in cash.

Goal

- 1) To proactively prepare Lockeport to respond to climate change by reducing localised vulnerabilities and community and ecosystem exposure through climate-ready infrastructure (we include built, natural social infrastructure together).
- 2) To be a pilot for other coastal communities.

Community Priority

The Town of Lockeport has spent capacity, resources (financial and other) and time over the past 10 years looking at climate change impacts and potential adaptation solutions. A key challenge for this small town has been sustained and appropriate funding.

This application aims to do a number of things aligned with the town's needs and the goals and purpose of the grant:

The SCCF process will fund activities and actions under the following categories and stages of action from ideation to monitoring.

Proposed work divided into the various SCCF grant categories

This section is as comprehensive as possible to generate ideas with the Lockeport Town Council:

- Ideation and Assessment:
 - Meet with Town Council and interested residents to understand the concerns, issues, ideas and realities that town have had over the past decade.
 - Ecosystem Services¹ / Natural capital² assessment to understand what the state and trends of key Climate related ES are in the town and associated with the surrounding ocean (bank stabilisation, ocean buffer capacity, etc). This assessment will help the town to focus the specific where and what for climate adaptation tasks.
 - Building on current Social Infrastructure³ in the town we will assess how to strengthen social infrastructure (e.g., store and library) to be areas of strength to maintain or enhance the town's resilience.
 - Assessment of Lockeport's current adaptive capacity to climate change from a natural capital and ecosystem services perspective.
 - Vulnerability mapping for at-risk community infrastructures, climate related natural capital and ecosystem services and other critical services
- Feasibility and Planning:
 - Use current town, regional and provincial feasibility studies were available. This would include, for example, the berm study, to develop a 'state of' report and use to prioritise the best use of this grant opportunity.
 - Looking at the area's islands, dunes and to assess a strategy for natural infrastructure modifications
 - Developing a plan to protect, restore, and manage Lockeport's terrestrial and coastal ecosystems to enhance adaptation focusing on built, natural and social infrastructure.
 - Develop a specific Lockeport community emergency management plan
 - Develop a sea level rise adaptation and managing any required retreat from shoreline.
 - Project to assess for viability for the following actions over the next 10 years including coastal system impacts of storm surge and sea level rise via the berm and reinforcing key areas, Protection and restoration projects for cultural assets and areas of cultural significance
 - Developing/ Restoring dune systems to protect communities from coastal hazards.
 - Developing a community forest as a storm buffer and to reduce localised surge and flooding and to retain soil.
 - Planting and maintaining the dunes
 - Storm Surge assessment – Lockeport and surrounding islands – adding reefs at strategic places (\$50,000 study min)
- Implementation:
 - A causeway that can be surged and resilient (based on 2019 causeway plan)

¹ Ecosystem services are the many and varied benefits to humans provided by the natural environment and healthy ecosystems. Such ecosystems include, for example, agroecosystems, forest ecosystem, grassland ecosystems, and aquatic ecosystems.

² Natural capital is the world's stock of natural resources, which includes geology, soils, air, water and all living organisms. Some natural capital assets provide people with free goods and services, often called ecosystem services. All of these underpin our economy and society, and thus make human life possible.

³ Social Infrastructure is a subset of the infrastructure sector and typically includes assets that accommodate social services. Examples of Social Infrastructure Assets include schools, libraries, community hubs, parks, hospitals or care centres and community housing.

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- Causeway enhancements for resilience generally and for when submerged (storm surge)
- Building a berm structure to protect the causeway, 1) as a test case for building a built/natural infrastructure barrier, 2) to protect the local infrastructure and maintain access to the town, and 3) that is adaptive to change.
- Reinforcement, rehabilitation, or modification of assets that protect community infrastructure and services from various climate risks
 - Enhancing the capacity of the store – access, storm readiness, capacity for housing people short term, emergency contact
- Dune system assessment, protection and enhancement including engineered and natural infrastructure improvements for natural barriers and bank stabilisation
- Rerouting the causeway
- Monitoring and evaluation:
 - Berm monitoring by the town public works will include photos, assessment before and after significant events.
 - Next generation unmanned marine platforms will have significantly improved on-board intelligence and autonomy, enabling better system diagnostics, sensor health and data interpretation for supervised real-time decision making with less operator intervention. The increased availability of different underwater communication modalities, such as acoustic and optical communication systems, paired with an increasing number of operational platforms — stationary and mobile.
- Measuring adaptive capacity:
 - Becoming fully aware of climate risks, climate opportunities, current capacity to adapt, and priorities;
 - Working strategically with others in the planning and development of common climate adaptation strategies and outcomes;
 - Implementing pragmatic, inclusive, and equitable adaptation plans and projects in partnership with others. They should ensure actions are adaptive over the long-term and appropriate under changing future climate conditions;
 - Monitoring progress, incorporating feedback for ongoing improvement, and sustaining efforts through partnerships, strong networks, good communication, and leveraging other resources.
- Knowledge mobilization:
 - We could host a series of sessions for the local community and other communities to share learning and provide education and inspire and encourage other small coastal communities.

Process and Next Steps:

The following are the basic steps:

- SCCF proposal sent to the Lockeport Town Council on Jan. 16th, 2023
- Gillian presents to council on Jan. 23rd, 2023
- Decision making process for the town on proceeding with the second tranche (Spring 2023) of the SCCF intake.
- If decision is to move forward, we spend January to March fully developing the proposal for submission.

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- Proposal Submission is evaluated for eligibility (Spring 2023). If eligible the team develops a full proposal that includes:
 - Applicant information
 - Community or communities served, and location of proposed project
 - What climate risks are addressed by proposal and how it aims to reduce GHG emissions or help communities adapt to climate change
 - What core objectives and co-benefits are met by the proposal
 - Project description with proposed methodology, use of data, and anticipated outcomes
 - Project budget (a Project Workbook spreadsheet template will be provided)
 - Who is leading the project, including their roles and previous experiences
 - Optional additional documents including partner and community letters of support.
- Proposal is accepted or rejected (Spring 2023). If accepted, the team confirms the In-kind and Cash contribution sources with the SCCF.
- Start of Planning Meetings in Lockeport with council, Gillian and other stakeholders and actors.
- We can have up to ~ 2 years to complete the work.

Referenced Reports and Data Sources

Adapt NS. Visualization Capabilities a Boundary of Climate Change.

https://www.researchgate.net/figure/AdaptNS-visualization-capabilities-a-Boundary-of-climate-change-visuals-as-seen-on_fig2_317640931

Able Engineering Service (2019). Design Brief: Lockeport Causeway Upgrade.

Centre for Local Prosperity (2021) GREEN RESILIENCE PROJECT. COMMUNITY SUMMARY. CENTRE FOR LOCAL PROSPERITY And TOWN OF LOCKEPORT.

Centre for Local Prosperity (2021) GREEN RESILIENCE PROJECT. COMMUNITY SUMMARY #2 CENTRE FOR LOCAL PROSPERITY And TOWN OF LOCKEPORT.

Maliha Majeed (2015) Examining the Effect of Visualization Tool Exposure on Local-level Stakeholder Perceptions on Climate Change Adaptation. Master Thesis.

Marija Bockarjova & W.J. Wouter Botzen (UU) (2017). Review of Economic Valuation of Nature Based Solutions in Urban Areas. Deliverable 1.3 Part III

Michael Gorman, · CBC News (2019) Lockeport tries to address cost of climate change, but needs help <https://www.cbc.ca/news/canada/nova-scotia/climate-change-lockeport-environment-sea-levels-storms-1.5291841>

S. Page and M. Christian (2015) Relative Physical Coastal Vulnerability. A Summary Report for Community Members and Policy Makers. St. Mary's University.

Shandel Brown and Saveena Patara (2013) A preliminary summary of key findings from a climate change vulnerability assessment of Nova Scotia's South Shore's fisheries and coastal tourism sectors. University of Waterloo.

Virginia Burkett and Margaret Davidson (2013) Coastal Impacts, Adaptation, and Vulnerabilities. A Technical Input to the 2013 National Climate Assessment National Climate Assessment Regional Technical Input Report Series.

Websites:

[The Environmental Goals and Climate Change Reduction Act](#)

[Our Climate, Our Future: Nova Scotia's Climate Change Plan for Clean Growth](#)

[Nova Scotia Climate Risk Assessment](#)

[Nova Scotia Coastal Protection Act](#)

[2022 Environmental Goals and Climate Change Reduction Act – Progress Report](#)

[2021/22 Annual Green Fund Report \(PDF\)](#)

[Clean Power Road Map for Atlantic Canada](#)

[Efficiency One Demand Side Management Plan](#)

[2020 National Energy Code for Buildings](#)

[Canadian Centre for Climate Services](#)

THIS DEVELOPMENT AGREEMENT made this ____ day of _____, 2023

BETWEEN: NICOLE ELIZABETH STEPHENS of Lockeport, in the County of Shelburne, Province of Nova Scotia. hereinafter referred to as the **“Property Owner”**

OF THE FIRST PART

AND

TOWN OF LOCKEPORT

A municipal body corporate pursuant to the *Municipal Government Act*, hereinafter referred to as the **“Town”**

OF THE SECOND PART

WHEREAS the Property Owner is the Registered owner of certain lands and dwelling (hereinafter called the “property”) which are more particularly described in Schedule “A” attached hereto; and

WHEREAS the Property is situated within an area zoned Residential One (R1) on the Zoning Map of the Land Use By-Law; and

WHEREAS the Property Owner wishes to obtain approval to convert the existing dwelling to accommodate up to five (5) rental housing units; and

WHEREAS Policy number twelve (12) of the Municipal Planning Strategy states It shall be the intention of Council to consider proposals for townhouse and apartment development in the areas designated Residential General (R1) by amendment to the Land Use By-law subject to Implementation Policy 11; and

WHEREAS a condition of the granting of approval by the Council of the Town is that the registered owner of the Property enter into a Development Agreement with the Town as per 4.7 of the Municipal Planning Strategy; and

WHEREAS the Council of the Town at its meeting held on the ____ day of _____, 2023, approved the Property Owner’s application for a Development Agreement to permit converting the dwelling to incorporate a maximum of five units;

NOW THEREFORE THIS AGREEMENT WITNESSETH THAT in consideration of the foregoing recitals and for other good and valuable consideration the parties hereto agree as follows:

1. GENERAL

- (i) In this Agreement, "Property Owner" means Nicole Elizabeth Stephens. This Development Agreement shall bind each and every Property Owner jointly and severally with the parties hereto.
- (ii) In this Agreement, "Property" means all the land and structures thereon bounding the corner of Hall Street and Allans Lane, in the Town of Lockeport, Civic #116 Hall Street (PID 80078025), more particularly described in Schedule "A".

2. DEVELOPMENT

- (i) The Property Owner shall be permitted to proceed with and to develop the Property in accordance with this Agreement.

3. USE

- (i) The Property shall be used only for Residential dwelling.

4. PARKING REQUIREMENT

- (i) One (1) off – street parking space for each dwelling unit, located within the same lot as the use and having unobstructed access to a public street shall be provided and maintained.

5. PERMITS AND CONSTRUCTION

- (i) Notwithstanding any other provision of this Development Agreement, the Property Owner shall not undertake or carry out any development, alteration, repair or modification on the property which does not comply with any statutes and regulations of the Government of Canada, and with appropriate Town By-laws, including without restricting the generality of the foregoing, the Building By-Law for the Town of Lockeport, the Provincial Building Code, and such provisions of the Land Use By-Law as are not affected by this Development Agreement. No permit shall be issued for any development which does not comply with the aforesaid.

6. COSTS

- (i) The Property Owners are responsible for all costs associated with recording this Agreement in the Land Registration Office.

7. FULL AGREEMENT

- (i) This Development Agreement constitutes the entire agreement and contract entered into by the Town and the Property Owner. No other agreement or representation, oral or written, shall be binding.

8. SEVERABILITY OF PROVISIONS

- (i) The provisions of this Agreement are severable from one another and the invalidity or unenforceability of one provision shall not affect the validity or enforceability of any other provision.

9. INTERPRETATION

- (i) All words appearing in this Development Agreement which are defined in the Town of Lockeport's Land Use By-Law shall be deemed to have the same meaning as in the Town of Lockeport's Land Use By-Law.
- (ii) Where the context requires, the singular shall include the plural, and the masculine gender shall include the feminine and neutral genders.
- (iii) In case of conflict, the text of the Agreement prevails over the Schedules.

10. BREACH OF TERMS OR CONDITIONS

- (i) Upon the breach by the Property Owner of the terms or conditions of this Agreement, the Town may undertake any remedies permitted by the *Municipal Government Act*, including but not limited to any remedies permitted by section 264 of the *Municipal Government Act*.

11. TERMINATION OF AGREEMENT

- (i) This Agreement shall be in effect until discharged by resolution of the Council of the Town pursuant to the *Municipal Government Act*, whereupon the Land Use By-Law shall apply to the Property; and
- (ii) The Property Owner shall sign this Agreement within 180 calendar days from the date the appeal period lapses or all appeals have been abandoned or disposed of or the Agreement has been affirmed by the *Nova Scotia Utility and Review Board* or the unexecuted Agreement shall be null and void; and

- (iii) The Town of Lockeport may discharge this Development Agreement if the use described herein has not been commenced within twelve (12) months of the date of this Agreement; and
- (iv) The Town of Lockeport may discharge this Development Agreement if construction of the development is discontinued for twelve (12) months or longer; and
- (v) In this Agreement, the development is deemed to have been commenced or started when a development permit for any part of the development has been issued; and
- (vi) The Town of Lockeport retains the option of discharging this Development Agreement should any fact provided by the Property Owner to the Town constitute a material misrepresentation of the facts; and
- (vii) This Agreement shall enure to the benefit of, and the binding upon the Town and its successors and assigns and shall enure to the benefit of and be binding upon the Property Owner, their heirs, executors, administrators, and assigns, the owner or owners from time to time.

IN WITNESS WHEREOF the parties hereto have properly executed these presents the day and year first above written.

SIGNED, SEALED AND DELIVERED)

In the presence of)

Witness)

Nicole Elizabeth Stephens

Witness)

Per:

Witness)

Per: