

*The Talon*

Vol. 31, No.4, June 23, 2021



# NEWSLETTER COVID-19 edition #9

## SOUTH LAKE SIMCOE NATURALISTS

*SLSN is an incorporated not-for-profit Member of Ontario Nature.*

Telephone 905-722-8021

([www.slsnc.ca](http://www.slsnc.ca))

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*Research Partner with The Zephyr Society of Lake Simcoe ([www.zephyrsociety.ca](http://www.zephyrsociety.ca))*

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In recent weeks, as anticipated, things have been opening up in regard to COVID-19 lockdowns of the “Third Wave”, with provincial staged opening moving to Stage 1, in spite of the increasing Delta (India) variant. For example, recently municipalities and the province have started to offer recreation programs for residents, with restrictions and health safety measures. Outdoor programs include day-use in parks, beaches, and active recreation activities in local parks.

As you will recall last September Norma, Gord and I met to discuss possible limited meeting/outing opportunities. After months of restrictions our usual meeting place is still unavailable. Outdoor events are only possible given provincial and municipal guidelines. With vaccinations (noting that people are in various stages), masks and social distancing remain essential. As naturalists being outside in nature is so important, meeting and walking in-person, but it must be done safely.

**As anticipated, with key principles and protocols in mind we have decided to hold a limited outdoor meeting/walkabout June 27, as advised in previous SLSN newsletters, for members (in good standing only – for insurance compliance) that will meet the protocol principles that are necessary. This meeting is only for those who want to safely meet outdoors – details and information below.**

### Meeting/Walkabout Outing

**Date and Time : Sunday June 27<sup>th</sup> from 4:00 to 5:30 p.m. rain or shine.**

**Location:** Brown Hill Park, parking is on Blake St. **(first street south off Ravenshoe Rd. east of Hwy. 48).** Outdoor location, with picnic shelter pavilion, and nature trail.

**COVID-19 Protocol Principles that apply**

Wear face mask, bring your own hand sanitizer, and be prepared to social distance 2 metres while attending. Attendance limited to 15 as names are taken by Norma. No refreshments will be available. Supply your own if you want. Bring a lawn chair. There is a covered park pavilion. Rain or shine. No one should attend who is sick and experiencing symptoms of illness (cough, fever etc.).

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This meeting is not in any way essential and any member having underlying health issues, susceptibility to infection etc. or unsure about attending should not attend. No one should feel they should or have to attend.

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## **SLSN Membership Renewals**

NORMA KNOWLTON  
418 BOUCHIER STREET  
KESWICK, ONTARIO  
L4P 3C8

Phone 905-476-4747

Membership year starts on October 1. Dues have not changed since last year:  
Single \$25.00, Family \$30.00

Norma

***Note: Please renew your membership to receive future Newsletters, including meeting and outings updates and details, insurance coverage.***

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## York Region Forest News

- A. This email is to advise you that our Contractor TruGreen/GreenLawn Ltd. will be administering TreeAzin™ injections to select ash trees in various York Regional Forest Tracts to help protect them from emerald ash borer. This work will commence the week of June 14<sup>th</sup> and run until the end of the month.
  - B. For the safety of the public and workers, please keep clear of the operation. Please feel free to forward this email to other forest users. If you have any questions regarding this work, please contact Dayna Laxton 1-877-464-9675 ext. 73119.
  - C. The Region's Herbicide Application contractor will be undertaking work in the Davis Drive, Nobleton and Drysdale Tracts of the York Regional Forest commencing June 22<sup>nd</sup>. The operation is expected to be completed within three weeks. This contract is for shielded competition control around newly planted trees. For the safety of the public and workers please keep clear of the operation. Please feel free to forward this email to other forest users. If you have any questions regarding this operation please contact me by calling Catherine Edwards at 1-877-464-9675 ext. 75243
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## New Nature Reserve Announced

2021-06-16

### NGF Alliance

[View this message online](#)



June 16, 2021

### Caroline Mulroney announces creation of giant nature reserve in the North Gwillimbury Forest

Today Minister of Transportation Caroline Mulroney and Minister of Municipal Affairs Steve Clark announced the creation of an 890-acre publicly-owned nature reserve in the North Gwillimbury Forest in the Town of Georgina.

The new nature reserve will be a priceless ecological asset for the Town of Georgina, the Lake Simcoe watershed and the Province of Ontario. It includes all the lands that were

owned by the DG Group between Boyers Road, Metro Road and Woodbine Ave, including their Maple Lake Estates property.

The new nature reserve is adjacent to the Arnold Matthews Nature Reserve, which was created by local residents in 2008.

Please [contact](#) Caroline Mulroney and thank her for persuading the Government of Ontario to create this wonderful nature reserve in the North Gwillimbury Forest:

[Caroline.Mulroneyco@pc.ola.org](mailto:Caroline.Mulroneyco@pc.ola.org).

*Caroline Mulroney (speaking), Steve Clark and Georgina Mayor Margaret Quirk announce nature reserve creation.*

### **Background**

The North Gwillimbury Forest Alliance was created by local citizens, in 2011, when we learned that the DG Group wanted to build a 1,073 unit Maple Lake Estates subdivision on the Paradise Beach-Island Grove Provincially Significant Wetland in the North Gwillimbury Forest.

Our campaign to save the Forest was strongly supported by our local Councillor, Dave Neeson, and thousands of Georgina residents and our generous financial supporters.

In 2019 thanks to the brilliant assistance of our lawyer, Leo Longo, and our planning expert, Tony Usher, the Local Planning Appeal Tribunal amended the Town of Georgina's Official Plan by designating more than 99% of the Maple Lake Estates lands as an "Environmental Protection Area" and hence off-limits to development.

A special thanks to our board members: Jim Keenan, Erin Kemp, Mary Lovett, Dan Merrill, Mike Sanderson, Sandra Villiers and Linda Wells.

Jack Gibbons  
Chair, North Gwillimbury Forest Alliance

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2021-06-20

**Toronto Star**

EDITORIAL

## What kind of deal did the Ford government cut to add land to Greenbelt?

By [Star Editorial Board](#)

Sun., June 20, 2021timer3 min. read

On its own, adding land to Ontario's treasured Greenbelt is a good thing.

But adding hundreds of acres of wetlands that were already protected from development does not, as the Ford government seems to think, absolve it from its many ministerial zoning order sins.

Not those of the past — last year alone Municipal Affairs Minister Steve Clark issued 33 MZOs, more than twice as many as previous governments did in 15 years.

And not those of the future, which Clark is forecasting by saying he will add two acres to the Greenbelt for every acre of land that "I have MZO'd or that I will MZO."

Ministerial zoning orders — normally a rarely used tool, and for good reason — authorize development regardless of local planning rules or even environmental concerns and they strip citizens of their right to consultation, transparency and accountability.

Since its earliest days of governing, Premier Doug Ford's government has shown nothing but disdain for planning rules, environmental protections and due process and it has made unprecedented use of this political tool to toss those aside. It's an abuse of power, much like Ford's use of the notwithstanding clause to curb his critics.

Beyond all that, we now wait for the other shoe to drop with last week's announcement that Ontario is adding 890 acres of "privately owned lands" in the North Gwillimbury Forest to the protected Greenbelt.

What deal did the government make for these lands?

A luxury homebuilder tore down a Toronto heritage home without a permit. What happens next could test Ontario's heritage rules

Specifically, what was the owner of the environmentally sensitive wetlands given in exchange for transferring them to the local conservation authority for inclusion in the Greenbelt?

And what will the next owner be given? ...

**Read full article:** <https://www.thestar.com/opinion/editorials/2021/06/20/what-kind-of-deal-did-the-ford-government-cut-to-add-land-to-greenbelt.html>

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2021-06-17

**Toronto Star**

## Feeling heat on MZOs, Ford government says it will add 6,000 acres to Ontario's Greenbelt

By [Noor Javed](#) Staff Reporter

[Steve Buist](#) Spectator Reporter

Wed., June 16, 2021 timer4 min. read

[JOIN THE CONVERSATION](#)

The province says it will add land to the protected Greenbelt to mitigate the environmental impact of a controversial zoning tool the government has used 45 times since it came into power.

In an announcement Wednesday morning, Steve Clark, minister of municipal affairs and housing, said two acres of land will be added to the Greenbelt for every acre of land affected by Minister's Zoning Orders (MZOs).

"We have looked at the 45 MZOs that we have done, and we've got about just under 3,000 acres of land," Clark said in an interview. "So we will commit to protecting 6,000 acres of the Greenbelt."

The commitment includes 890 acres (360 hectares) of environmentally sensitive wetlands in the North Gwillimbury Forest that will be added to the Greenbelt, Clark announced at a press conference in Georgina, just south of Lake Simcoe.

The announcement comes two days after [a Torstar investigation showed MZOs are increasingly benefiting a select group of prominent land developers](#) with strong ties to municipal leaders and the Ontario PC party.

It also comes with the next election less than a year away — June 2, 2022 — and a looming cabinet shuffle.

Over the past year, the Star has written extensively about the Ford government's use of MZOs, a tool which takes precedence over any local or regional council planning decisions and can't be appealed.

Clark said he will be issuing an MZO to prevent future development on the North Gwillimbury Forest land, which will now be under the stewardship of the Lake Simcoe Region Conservation Authority.

Jack Gibbons, the Chair of the North Gwillimbury Forest Alliance, who has been fighting to protect this land for decades, called the announcement "fantastic."

However, he said the land was already deemed undevelopable due to a 2019 Local Planning Appeal Tribunal decision that designated more than 99 per cent of the Maple Lake Estates lands as "Environmental Protection Area" and off-limits to development.

Gibbons says this announcement will take the land out of private hands and make it a public nature reserve. But he has concerns with tying this announcement to MZOs.

“The creation of a nature reserve is good news, but it doesn’t justify MZOs.” ...

**Read full article:** [https://www.thestar.com/news/investigations/2021/06/16/feeling-heat-on-mzos-ford-government-says-it-will-add-6000-acres-to-ontarios-greenbelt.html?source=newsletter&utm\\_content=a05&utm\\_source=ts\\_nl&utm\\_medium=email&utm\\_email=6EA0E815B8FFE40A55C58C2297DE34C8&utm\\_campaign=tmh\\_58636](https://www.thestar.com/news/investigations/2021/06/16/feeling-heat-on-mzos-ford-government-says-it-will-add-6000-acres-to-ontarios-greenbelt.html?source=newsletter&utm_content=a05&utm_source=ts_nl&utm_medium=email&utm_email=6EA0E815B8FFE40A55C58C2297DE34C8&utm_campaign=tmh_58636)

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**SLSN: Members, Please consider submitting an article, nature photo for the next Talon Newsletter.**

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## Plastic Update

2021-06-10

**C.B.C. News**

### Plastic Use Changing attitudes

#### The Big Picture: Reducing our use of plastic bags

In recent years, the issue of single-use plastic has galvanized people around the world. Kenya, for example, [banned plastic bags in 2017 and forbids people from bringing plastic bottles and the like into natural protected areas](#).

The Canadian government announced last year that it would phase out six single-use plastic items by 2022: plastic grocery bags, straws, stir sticks and six-pack rings as well as cutlery and food containers made from hard-to-recycle plastics. Earlier this month, Statistics Canada released 2019 household data on plastic use and found that when it comes to grocery shopping, most people have already been [conditioned to reuse their own bags](#). While four per cent of households remain holdouts on this front, 96 per cent have at some point reused bags at the grocery store — with 43 per cent reporting they do it all the time. While this appears to be a positive development, Great Canadian Shoreline Cleanup found that thanks in large part to the COVID-19 pandemic, [the proportion of single-use plastic found on Canadian shorelines nearly doubled in 2020](#).

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## Birds in South Lake Simcoe

**SLSN members Photos**



American Goldfinch at feeder, Jackson's Point, Heather MacKay an photo by Joe Seara



Bluebird, Jeffrey Boylin Prout Road 2020-04-24





Female cardinal, Irving Himel, 2020-12-29, Georgina



Eastern Kingbird, Paul Harpley, Egypt area, Georgina 2021-06

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## **Bears in spring, Canada**

### **Bear Wise in Ontario.**

In Georgina we have resident Black bears. In recent decades their populations have increased and stabilized, are occasionally seen. P.H.

## **Be Bear Wise and prevent bear encounters**

Prevent and report encounters with black bears and learn who to contact.

**On this page** [Skip this page navigation](#)

1. [Who to contact](#)
2. [If you encounter a black bear](#)
3. [Prevent conflicts with black bears](#)
4. [Bear Wise tips and tools](#)
5. [When out in bear country](#)
6. [About black bears](#)
7. [Take community action](#)

### Emergency

Call 911 or your local police

### Non-emergency

Call [1-866-514-2327](tel:1-866-514-2327)

TTY: [705-945-7641](tel:705-945-7641)

## Who to contact

Not every bear sighting is an emergency situation. Here is who to call if you encounter a bear.

### Emergency situations

**Call 911 or your local police** if a bear poses an immediate threat to personal safety and exhibits threatening or aggressive behaviour, such as:

- enters a school yard when school is in session
- stalks people and lingers at the site
- enters or tries to enter a residence
- wanders into a public gathering
- kills livestock/pets and lingers at the site

Police will respond first to an emergency situation, but may request assistance from the Ministry of Natural Resources and Forestry during daylight hours.

### Non-emergency encounters

Call the toll-free Bear Wise reporting line at [1-866-514-2327](tel:1-866-514-2327) (TTY [705-945-7641](tel:705-945-7641)) if a bear:

- roams around or checks garbage cans
- breaks into a shed where garbage or food is stored
- is in a tree
- pulls down a bird feeder or knocks over a barbecue

- moves through a backyard or field but does not linger

This line operates 24 hours a day, seven days a week, from April 1 to November 30.

**More information:** [https://www.ontario.ca/page/prevent-bear-encounters-bear-wise?\\_ga=2.107427010.1192721222.1591120934-1729898109.1523977594](https://www.ontario.ca/page/prevent-bear-encounters-bear-wise?_ga=2.107427010.1192721222.1591120934-1729898109.1523977594)

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## Polar Bears, Canada – at Risk.

2021-06-21

**Change.org**

Polar bears are at risk. Canada is home to approximately 16,000 wild polar bears, nearly two-thirds of the world's polar bear population. Canada is the only country that allows commercial trophy hunting of polar bears. Petition starter Günter wants the federal government to ban commercial hunting of polar bears. If you think these vulnerable animals should be protected, not hunted for sport, sign the petition now.



## Justin Trudeau: Please Ban Trophy Hunting of Polar Bears



**12,857 have signed** Günter Singer's petition. Let's get to 15,000!

Dear Prime Minister,

Polar bears are being killed by the hundreds every year by trophy hunters from all over the globe, especially the USA, while the species is facing serious threats from climate change.

On top of it, China is today the world's largest buyer of polar bear fur. Growing demand and rising prices for their hides is thought to have led to an increase in polar bear hunting. China has also imports live polar bears for entertainment in hotels.

There are now estimated to be as few as 20,000 polar bears remaining in the wild.

Killing polar bears for 'recreation' could now push this magnificent species over the edge towards extinction.

Canada has two-thirds of the world's remaining polar bears.

It is the only country in the world that permits the commercial trophy hunting of the White Bear.

We ask you to ban all trophy hunting of polar bears, and to halt commercial trade in polar bears and their body parts.

**More information, sign:** [www.change.org](http://www.change.org)

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## Bird News

P. H. H. wren

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### Why Garden for Birds?

**You can help birds while making your garden more beautiful and eco-friendly.**

Take your love of birds to the next level by creating habitat in your yard or garden that provides life-saving resources (think food, water, and shelter) for birds throughout the year. Gardening is an excellent

way to ensure that outdoor spaces, whether large or small, help wildlife. Many North American bird species are in decline due to habitat loss and degradation, among other global threats. You can help! You can design a nature-focused garden that helps create patches of habitat that are beneficial to birds – year-round residents, winter visitors, local breeding birds, and also those that are passing through during spring and fall migrations. When you garden with birds in mind, your property can become part of a larger conservation initiative to help address the loss of biological diversity (biodiversity). And you might be surprised by how many new species you'll see visiting your property or living in your garden! This website will help you help birds by making it easy for you to design and plant a garden that is great for birds. Whether you have an existing garden that could use a few tweaks or an expansive lawn that you're hoping to transform for the benefit of nature, this site will give you a head start on welcoming more birds to your place!

Birds Canada: For more Information: <https://birdgardens.ca/>

## Media Programs – Zoom Meetings, Webinars etc.

Some members have been interested in spending some screen time on their computer. Various high-quality programming is now readily available after the start of the COVID-19 Pandemic and continuing of much better quality and technical merit than we in our organization could produce. These programs include You-Tube, Zoom meetings, Webinars and related digital platforms programming. Below are some recommended Links, of many that members could search themselves, to partake in below. Enjoy!

2021-05-20

### Ontario Biodiversity Summit 2021

<http://ontariobiodiversitycouncil.ca/summit/>

## 2021 Ontario Biodiversity Summit Nature-based solutions for the 21st century

Join us for the virtual 2021 Ontario Biodiversity Summit! Our engaging sessions will be led by subject matter experts and will bring together people from across Ontario and around the

globe to talk about, celebrate, and take action to protect biodiversity using nature-based solutions!

**Information and Registration:** [ontariobiodiversitycouncil.ca/summit](https://ontariobiodiversitycouncil.ca/summit)

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## July 2021

*Join this session to enjoy four engaging videos during the month of July*

### Community science: A tool for biodiversity education and engagement

Community science provides an engaging opportunity for the public to explore the nature around them and connect with biodiversity. With so many projects and tools available at their fingertips, it's never been easier for people to submit observations, contribute to science and learn more about the natural world in their communities.

Using four different pre-recorded videos, this session will explore different ways community science can engage the public. Topics will include invasive species, insect data collection, bird data collection and 'How to make any walk a nature walk' and Caterpillar identification and data collection.

## August 2021

*Join this session to enjoy four engaging videos during the month of August*

### Prioritizing biodiversity education in a changing world

In a changing world, the way biodiversity is taught must be adapted to ensure that it remains relevant and relatable to its audiences; and in an ongoing global pandemic, virtual learning has dominated the education scene.

Using four different pre-recorded videos, this session will explore how educators and biodiversity programs have adapted their teaching, the technologies used, and the advantages and disadvantages of virtual education.

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### Mary Green SLSN Club member suggested You Tube – Geese on duty on Grape farm in South Africa instead of using Pesticides

**You Tube:** [VIDEO-2021-05-23-08-20-30.mp4](#)

[https://www.youtube.com/watch?v=2p0xmfx-JHw&ab\\_channel=AssociatedPress](https://www.youtube.com/watch?v=2p0xmfx-JHw&ab_channel=AssociatedPress)

[https://www.youtube.com/watch?v=CL66z8JHq3Q&ab\\_channel=APArchive](https://www.youtube.com/watch?v=CL66z8JHq3Q&ab_channel=APArchive)



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## Bearcam Live Event Schedule June/July 2021 [explore.org](https://explore.org)

**All About Courtship**      [explore.org](https://explore.org) [enews@explore.org](mailto:enews@explore.org)

It might include long walks on a beach, but there are definitely no serenades. Courtship is a conspicuous part of the bear world in late spring and early summer, but it's also a time of competition and persistence.

Join Katmai National Park ranger Naomi Boak and [explore.org](https://explore.org)'s resident naturalist Mike Fitz on June 23rd at 7 p.m. ET / 4 p.m. PT as they discuss bear courtship and the brown bear mating season. The live event will take place on the [Brooks Live Chat](#) channel. For a full rundown of seasonal live talks, check out the [summer schedule](#).

### Brooks Live Chat channel.

Get ready for Bearcam! The salmon are poised to return and the brown bears are hungry. Our upcoming live events explore the world of brown bears and salmon at Brooks River in Katmai National Park, one of the greatest wildlife watching locations in North America. And, don't forget to watch the bears every day on [explore.org](https://explore.org).

Live Chats

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## Climate Change News

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2021-05-20

**International Energy Agency**

### Net Zero by 2050 Report

**Read the Report:**

**More information:** <https://www.iea.org/reports/net-zero-by-2050>

#### In this report

The number of countries announcing pledges to achieve net-zero emissions over the coming decades continues to grow. But the pledges by governments to date – even if fully achieved – fall well short of what is required to bring global energy-related carbon dioxide emissions to net zero by 2050 and give the world an even chance of limiting the global temperature rise to 1.5 °C.



This special report is the world's first comprehensive study of how to transition to a net zero energy system by 2050 while ensuring stable and affordable energy supplies, providing universal energy access, and enabling robust economic growth. It sets out a cost-effective and economically productive pathway, resulting in a clean, dynamic and resilient energy economy dominated by renewables like solar and wind instead of fossil fuels. The report also examines key uncertainties, such as the roles of bioenergy, carbon capture and behavioural changes in reaching net zero.

[Read the press release](#)

## Pathway to critical and formidable goal of net-zero emissions by 2050 is narrow but brings huge benefits, according to IEA special report

2021-05-18



The world has a viable pathway to building a global energy sector with net-zero emissions in 2050, but it is narrow and requires an unprecedented transformation of how energy is produced, transported and used globally, the International Energy Agency said in a landmark special report released today.

Climate pledges by governments to date – even if fully achieved – would fall well short of what is required to bring global energy-related carbon dioxide (CO<sub>2</sub>) emissions to net zero by 2050 and give the world an even chance of limiting the global temperature rise to 1.5 °C, according to the new report, *Net Zero by 2050: a Roadmap for the Global Energy Sector*.

The report is the world's first comprehensive study of how to transition to a net zero energy system by 2050 while ensuring stable and affordable energy supplies, providing universal energy access, and enabling robust economic growth. It sets out a cost-effective and economically productive pathway, resulting in a clean, dynamic and resilient energy economy dominated by renewables like solar and wind instead of fossil fuels. The report also examines key uncertainties, such as the roles of bioenergy, carbon capture and behavioural changes in reaching net zero.

“Our Roadmap shows the priority actions that are needed today to ensure the opportunity of net-zero emissions by 2050 – narrow but still achievable – is not lost. The scale and speed of the efforts demanded by this critical and formidable goal – our best chance of tackling climate change and limiting global warming to 1.5 °C – make this perhaps the greatest challenge humankind has ever faced,” said Fatih Birol, the IEA Executive Director. “The IEA’s pathway to this brighter future brings a historic surge in clean energy investment that creates millions of new jobs and lifts global economic growth. Moving

the world onto that pathway requires strong and credible policy actions from governments, underpinned by much greater international cooperation.”

Building on the IEA’s unrivalled energy modelling tools and expertise, the Roadmap sets out more than 400 milestones to guide the global journey to net zero by 2050. These include, from today, no investment in new fossil fuel supply projects, and no further final investment decisions for new unabated coal plants. By 2035, there are no sales of new internal combustion engine passenger cars, and by 2040, the global electricity sector has already reached net-zero emissions.

In the near term, the report describes a net zero pathway that requires the immediate and massive deployment of all available clean and efficient energy technologies, combined with a major global push to accelerate innovation. The pathway calls for annual additions of solar PV to reach 630 gigawatts by 2030, and those of wind power to reach 390 gigawatts. Together, this is four times the record level set in 2020. For solar PV, it is equivalent to installing the world’s current largest solar park roughly every day. A major worldwide push to increase energy efficiency is also an essential part of these efforts, resulting in the global rate of energy efficiency improvements averaging 4% a year through 2030 – about three times the average over the last two decades.

Most of the global reductions in CO<sub>2</sub> emissions between now and 2030 in the net zero pathway come from technologies readily available today. But in 2050, almost half the reductions come from technologies that are currently only at the demonstration or prototype phase. This demands that governments quickly increase and reprioritise their spending on research and development – as well as on demonstrating and deploying clean energy technologies – putting them at the core of energy and climate policy. Progress in the areas of advanced batteries, electrolyzers for hydrogen, and direct air capture and storage can be particularly impactful.

A transition of such scale and speed cannot be achieved without sustained support and participation from citizens, whose lives will be affected in multiple ways.

“The clean energy transition is for and about people,” said Dr Birol. “Our Roadmap shows that the enormous challenge of rapidly transitioning to a net zero energy system is also a huge opportunity for our economies. The transition must be fair and inclusive, leaving nobody behind. We have to ensure that developing economies receive the financing and technological know-how they need to build out their energy systems to meet the needs of their expanding populations and economies in a sustainable way.”

Providing electricity to around 785 million people who have no access to it and clean cooking solutions to 2.6 billion people who lack them is an integral part of the Roadmap’s net zero pathway. This costs around \$40 billion a year, equal to around 1% of average annual energy sector investment. It also brings major health benefits through reductions in indoor air pollution, cutting the number of premature deaths by 2.5 million a year.

Total annual energy investment surges to USD 5 trillion by 2030 in the net zero pathway, adding an extra 0.4 percentage points a year to global GDP growth, based on a joint analysis with the International Monetary Fund. The jump in private and government spending creates millions of jobs in clean energy,

including energy efficiency, as well as in the engineering, manufacturing and construction industries. All of this puts global GDP 4% higher in 2030 than it would reach based on current trends.

By 2050, the energy world looks completely different. Global energy demand is around 8% smaller than today, but it serves an economy more than twice as big and a population with 2 billion more people. Almost 90% of electricity generation comes from renewable sources, with wind and solar PV together accounting for almost 70%. Most of the remainder comes from nuclear power. Solar is the world's single largest source of total energy supply. Fossil fuels fall from almost four-fifths of total energy supply today to slightly over one-fifth. Fossil fuels that remain are used in goods where the carbon is embodied in the product such as plastics, in facilities fitted with carbon capture, and in sectors where low-emissions technology options are scarce.

"The pathway laid out in our Roadmap is global in scope, but each country will need to design its own strategy, taking into account its own specific circumstances," said Dr Birol. "Plans need to reflect countries' differing stages of economic development: in our pathway, advanced economies reach net zero before developing economies. The IEA stands ready to support governments in preparing their own national and regional roadmaps, to provide guidance and assistance in implementing them, and to promote international cooperation on accelerating the energy transition worldwide."

The special report is designed to inform the high-level negotiations that will take place at the 26th Conference of the Parties (COP26) of the United Nations Climate Change Framework Convention in Glasgow in November. It was requested as input to the negotiations by the UK government's COP26 Presidency.

"I welcome this report, which sets out a clear roadmap to net-zero emissions and shares many of the priorities we have set as the incoming COP Presidency – that we must act now to scale up clean technologies in all sectors and phase out both coal power and polluting vehicles in the coming decade," said COP26 President-Designate Alok Sharma. "I am encouraged that it underlines the great value of international collaboration, without which the transition to global net zero could be delayed by decades. Our first goal for the UK as COP26 Presidency is to put the world on a path to driving down emissions, until they reach net zero by the middle of this century."

New energy security challenges will emerge on the way to net zero by 2050 while longstanding ones will remain, even as the role of oil and gas diminishes. The contraction of oil and natural gas production will have far-reaching implications for all the countries and companies that produce these fuels. No new oil and natural gas fields are needed in the net zero pathway, and supplies become increasingly concentrated in a small number of low-cost producers. OPEC's share of a much-reduced global oil supply grows from around 37% in recent years to 52% in 2050, a level higher than at any point in the history of oil markets.

Growing energy security challenges that result from [the increasing importance of electricity](#) include the variability of supply from some renewables and [cybersecurity risks](#). In addition, [the rising dependence on critical minerals](#) required for key clean energy technologies and infrastructure brings risks of price volatility and supply disruptions that could hinder the transition.

“Since the IEA’s founding in 1974, one of its core missions has been to promote secure and affordable energy supplies to foster economic growth. This has remained a key concern of our Net Zero Roadmap,” Dr Birol said. “Governments need to create markets for investments in batteries, digital solutions and electricity grids that reward flexibility and enable adequate and reliable supplies of electricity. The rapidly growing role of critical minerals calls for new international mechanisms to ensure both the timely availability of supplies and sustainable production.”

The full report is available for free on the IEA’s website along with an online interactive that highlights some of the key milestones in the pathway that must be achieved in the next three decades to reach net-zero emissions by 2050.

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2021-05-19

## New Scientist Daily

### Methane Mystery

Atmospheric concentrations of methane have been climbing upwards since 2007, but last year, according to preliminary data released this month, methane levels made their biggest annual jump, by 14.7 parts per billion, since records started in 1983. The gas may be shorter-lived than carbon dioxide, but its warming effect is 28 times more potent, and scientists aren’t sure why it keeps increasing ahead of predictions. Even new modelling for a landmark report by the Intergovernmental Panel on Climate Change, due out in August, predicts that methane concentrations will start to fall this year, but that isn’t happening in reality. “2020’s increase was double the 2007 growth. It’s even higher than the early 1980s, when the gas industry was going crazy. It’s really scary,” says Euan Nisbet at Royal Holloway London.

**More information:** [https://www.newscientist.com/article/mg25033350-700-a-mysterious-rise-in-methane-levels-is-sparking-global-warming-fears/?utm\\_source=nsday&utm\\_medium=email&utm\\_campaign=NSDAY\\_190521](https://www.newscientist.com/article/mg25033350-700-a-mysterious-rise-in-methane-levels-is-sparking-global-warming-fears/?utm_source=nsday&utm_medium=email&utm_campaign=NSDAY_190521)

### A mysterious rise in methane levels is sparking global warming fears

ENVIRONMENT 18 May 2021

By [Adam Vaughan](#)



**Livestock, particularly cows, are a major source of methane**  
plainpicture/Jan Håkan Dahlström

IN A University of Colorado lab, near a furnace running at 1100°C and machines adorned with *Star Trek* posters, lie rows of metal flasks holding clues to the cause of an alarming rise in a powerful greenhouse gas. They contain samples of air from around the world that [Sylvia Michel](#)'s team of methane detectives analyse to reveal whether the gas came from burning fossil fuels and wood, or from wetlands and cow guts.

The work isn't merely academic. Pinpointing the sources of the methane ...

**Read more:** <https://www.newscientist.com/article/mg25033350-700-a-mysterious-rise-in-methane-levels-is-sparking-global-warming-fears/#ixzz6vK0wEAI6>

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## Introducing the Climate Legacy Project

[Climate Legacy](#) is an initiative to mobilize older Canadians in climate action through their voices, their time and their money. It provides helpful resources for seniors wanting to do more, and features inspiring stories of environmental organizations with a strong senior base from across Ontario. The goal of Climate Legacy is to empower seniors interested in climate action who are often overlooked in current environmental mobilizing efforts. Check out the project [website](#) to learn more, or subscribe to the [newsletter](#) for monthly updates and stories about ongoing climate action in Ontario.

Ontario Nature

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2021-05-18

## Environmental Defence

<https://act.environmentaldefence.ca/page/82788/action/1?ea.tracking.id=eblast&ea.url.id=5312853>



# TAKE ACTION: SUPPORT THE GAS POWER PHASE-OUT AND SAY NO TO MORE FOSSIL FUELS!

Since 2018, Ontario's carbon emissions have been on the rise - for the first time in a decade. Now, despite claiming to want to reduce emissions, the Ontario government is abandoning renewable energy and ramping up fossil fueled gas plants!

Burning gas for electricity makes climate change worse and pollutes the air that local communities breathe. **If we are going to have a hope of meeting our climate targets and building a cleaner future, we need to phase out fossil fuels.**

You can help make that happen.

The IESO, Ontario's independent electricity system operator, has opened a public consultation on phasing out gas-fired power plants.

**Take action today to tell the IESO, your MPP, and provincial energy minister Greg Rickford that you support phasing out polluting gas-fired power plants by 2030 to protect Ontario's clean air and climate.**

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2021-05-19

## **Dogwood – Big Oil**

The International Energy Agency – long seen as a mouthpiece for Big Oil – issued **a stern warning to the world this week: we cannot develop any new oil and gas resources.**

Any new oil rig, coal mine or gas well will, as of this moment, put us past the point of no return on runaway climate change. We know what that means: droughts in some places, famines in others; wildfires and floods in our part of the world. In short, **every new fossil fuel project has a cost that is measured not in dollars and cents, but in human suffering and death.**

Meanwhile, Justin Trudeau is hellbent on building the Trans Mountain pipeline with at least \$16 billion of your tax dollars.

**John Horgan handed over more than \$1 billion of our tax dollars to fracking companies last year** – and he's on track to do the same again this year. His government is counting on a huge expansion in fracked methane in B.C. by 2030.

Those are your taxpayer dollars at work. You can demand our government get with the program. And you can help others take action too. As COVID restrictions ease and resistance heats up, **we're preparing for a major organizing push to build a movement too powerful for government to ignore.**

The IEA report confirms that our government needs to rethink their position, fast. They are funding fossil fuel projects with our tax dollars that will only end in human tragedy.

**You can help build the people power that will force governments to stop burning money on Big Oil.**

Thank you in advance for your help,

Adam

P.S. The International Energy Agency normally sides with Big Oil. Their call to end oil and gas development means a major shift is underway. Yet Justin Trudeau and John Horgan are both spending billions of taxpayer dollars on a losing bet. We need to stop burning money on Big Oil right now, but **unless we can counter the power of lobbyists and oil executives, the government won't budge**

If you like what we do and are able to help, please donate! We're grateful to you.

**More information:** [www.dogwood@dogwoodbc.ca](mailto:www.dogwood@dogwoodbc.ca)

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# Energy News

2021-06-10

Greenpeace Canada

## GREENPEACE

**One billion dollars.** One billion dollars of public money for a new fossil fuel project.

The request was made by Pieridae Energy who, as you read this, is intensively lobbying the federal government to invest this huge sum of taxpayer money into its new liquefied natural gas (LNG) export megaproject: Goldboro LNG. [1]

The good news is that without this federal funding, the Goldboro LNG project is unlikely to go ahead. **That's why we need to act fast: [write to Finance Minister Chrystia Freeland, and key Trudeau cabinet ministers, to demand the immediate rejection of this new fossil fuel project.](#)**

The federal government should not spend a dime on destructive projects like Goldboro LNG, **which would emit the equivalent pollution of over 12 million cars.** [2] We know that it has no place in a climate-safe future and that investing public money in this type of megaproject today is indefensible — not only from a climate perspective, **but also from a global energy strategy perspective.**

Even the very conservative International Energy Agency came to a similar conclusion in a recently published report this past month: the numerous **liquefied natural gas installations currently under construction or being planned are NOT necessary.** [3]

Paul, the deadline is looming. Pieridae Energy will make a final decision on the viability of its project by the end of June. [4] **[Tell Finance Minister Chrystia Freeland and Trudeau cabinet ministers to reject this funding request before it's too late.](#)**

The company says the \$1 billion in federal support is essential to make this project happen. **This is our chance to make sure it never sees the light of day. [Write to Chrystia Freeland now.](#)**

Thank you for taking action with me today,

Patrick Bonin,

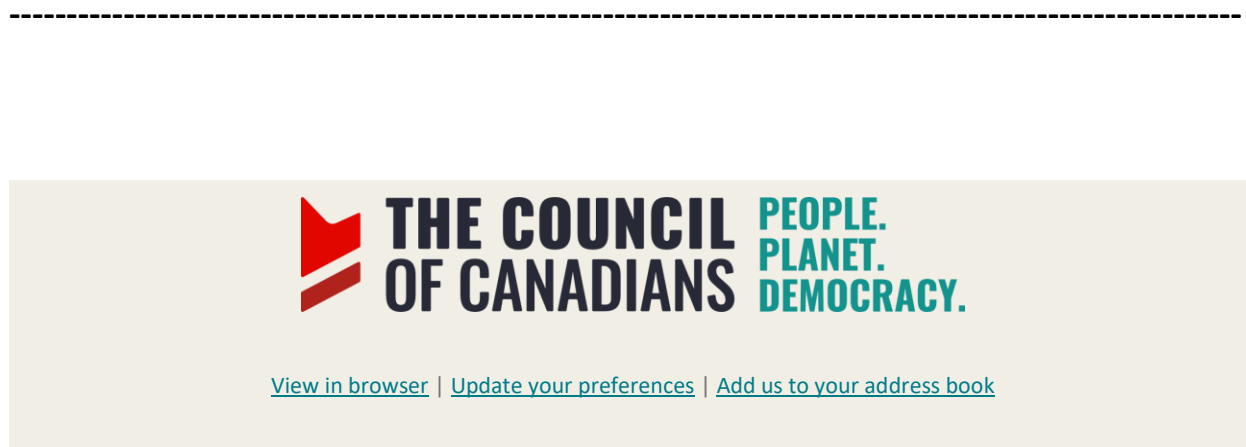
Climate & Energy Campaigner,

Greenpeace Canada



## SOURCES:

1. [12-Month Lobbying Summary: Pieridae Energy Limited / Gordon Quaiattini, Consultant](#)
2. The Bureau d'audience publique sur l'environnement (BAPE) report on LNG Quebec concludes that the project's greenhouse gas emissions would be "approximately 45.5 million tons of CO2 equivalent/year". Based on the BAPE's calculation for the LNG Quebec project, which is similar, we estimate that Goldboro would emit the pollution equivalent of 12 million cars (or 40 million tons of CO2 equivalent/year). <https://voute.bape.gouv.qc.ca/dl?id=00000241203>
3. [Net Zero by 2050 A Roadmap for the Global Energy Sector](#)
4. [Pieridae's financier faces tight deadline ahead of June investment decision on East Coast LNG project](#)



**Right now, in the province of Alberta, there are 8 new open-pit mining projects in the works on the eastern slopes of the Rockies, and the federal government is doing nothing about it.**

Ottawa is essentially shrugging its collective shoulders: "It's not our problem," they say. But it is. Open-pit mining would not only wreak environmental havoc in Alberta, but it would also transcend provincial boundaries and compromise the eco-systems and watersheds of multiple provinces. **And that makes it a federal problem.**

Correcting our course on the climate crisis means there must be emissions reductions by 2025 here in Canada. To reach this lofty goal, our governments must drastically reduce reliance on fossil fuels, including coal.

Our government made a promise 6 years ago to stop the deadly advancement of global warming and [it's up to us to hold them to that promise. You can start today by donating to the Council of Canadians.](#)

This crisis cannot be underestimated.

Open-pit coal mining pollutes water, destroys essential habitat and biodiversity, threatens the health of people downstream, and takes us backwards in the fight to address climate change. Extracting coal releases heat-trapping greenhouse gases and plays a major role in climate change.

Today I'm asking you to work alongside us as we keep the pressure on our governments to cease their reliance on coal. We're mobilizing tens of thousands of people from coast to coast to coast, so give today – [the ecological threat to everyone in this country is real, and your support is urgently needed.](#)

Thanks to the loud opposition of more than 25,000 Albertans, the Alberta government has temporarily paused exploration in ecologically-sensitive areas. But we know that coal mining in any area jeopardizes all connected ecosystems and waterways, so we need your help to stop coal mining altogether. Here's what the Council of Canadians wants to see:

1. A shift away from coal, starting with ending all coal exploration and mining in Alberta.
2. Decisions being made without the lure of big business and big money getting in the way of the health of the environment, water, and the people of this country.
3. Meaningful consultation, including with Indigenous communities and all who are directly impacted by the threat of coal mining.
4. Action that reflects that this is a national crisis. The adverse effects of coal do not respect borders, and a national crisis deserves a national action plan.

Generations of my family were coal miners, but I know that we must embrace the idea of a future without coal. Help the Council of Canadians and take action.

Sincerely,

John Cartwright, Chairperson

PS: Open pit coal mining in Alberta takes us backwards. It shouldn't be allowed in Canada. [Give to the Council of Canadians today and support a future without coal.](#)

