



Renewable Energy in Arran-Elderslie

Request for Municipal Support Resolution

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ABOUT US

Catalyzing a more sustainable future

Shift Solar Inc. is an Ontario-based solar and energy storage developer with clients in Canada and the United States. Our goal is to expedite the adoption of green energy initiatives and support the shift to sustainable energy infrastructure.

With a development motto of "do the greatest good," the Shift team strives to maximize a site's energy production capabilities, while being mindful of the impacts to the land and the communities that surround it.



OUR COMMITMENT

We're all in this together.

We're committed to working alongside our municipal partners to bring out the best in every project and every community. Here are the values that keep us on track.



PEOPLE

Restoring environmental balance through sustainable infrastructure is a team effort. We want to take care of each other, our partners, and the communities where we work so everyone can prosper as we build a healthier, happier planet.



PLANET

We strive to do the greatest good for the planet by maximizing energy production, minimizing environmental impact, and establishing thoughtful rehabilitation measures at the end of a project's life.



INTEGRITY

We believe integrity is all about working respectfully. We choose to operate with honesty, humility, and transparency to ensure we amplify our impact



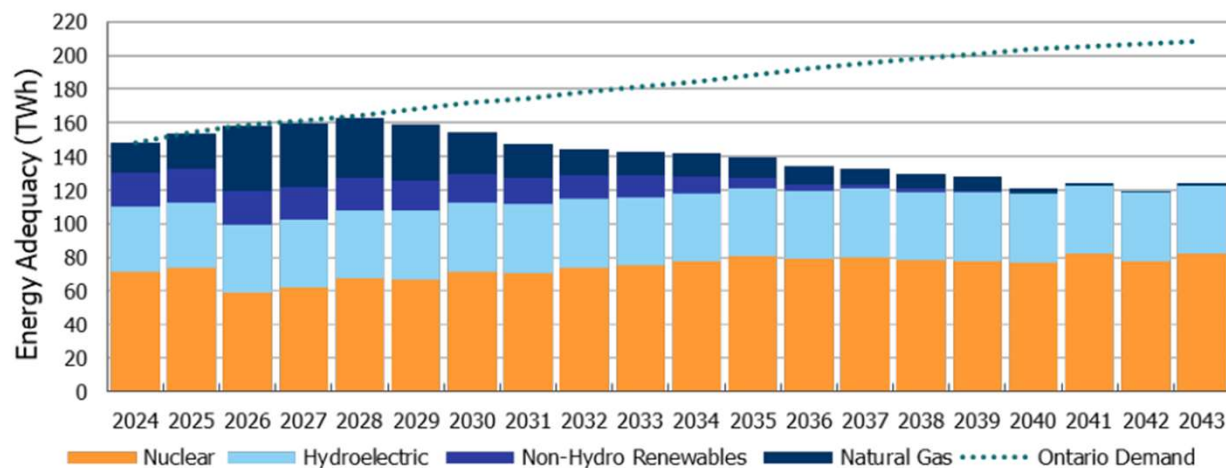
THE NEED FOR NEW STRATEGIES

Ontario is on the brink of an energy crisis

In their planning outlooks, the IESO predicts an energy and capacity shortfall as soon as 2026.

- Between 2025 and 2027, Ontario needs 4,000 MW of new supply
- The gap between demand and generation is expected to expand for 20 years

Figure 21 | Energy Adequacy Outlook (Case 1)



www.ieso.ca/en/Sector-Participants/Planning-and-Forecasting/Annual-Planning-Outlook

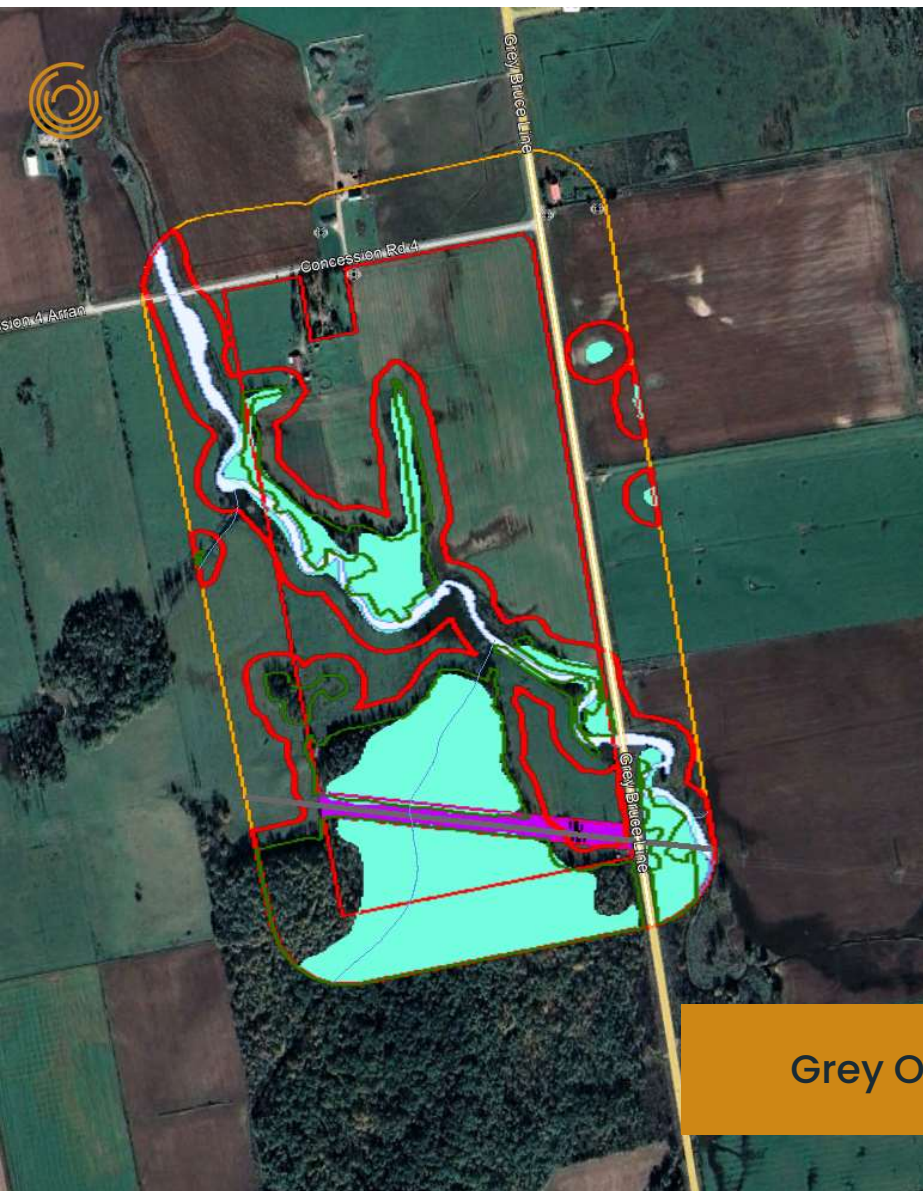


THE NEED FOR NEW STRATEGIES

But, there is some good news

In 2022, IESO released a Long-Term RFP (LTR1 RFP) to competitively procure year-round capacity from dispatchable New Build and Eligible Expansion resources. This includes a target of 1,600 MWs of energy storage resources. The RFP timeline is as follows:





THE SOLUTION

Save it for a rainy day

This project is proposed to be a 200MW battery energy storage system with 4 hours of capacity (800MWh) connected to the 230kV transmission lines. It will sit on roughly 40 acres of land.

Why was this location chosen:

- Close to growing populous to provide power locally
- Close to distribution and major transmission lines to easy interconnection
- Land that is flat and cleared to cause no new environmental disruptions
- Long major roadway for ease of delivery during construction
- Limited residences affected and can be visually concealed
- While there is a local waterway, setbacks will be carefully assessed and measured

Grey Owl Storage



THE PERKS

Here's how your community can benefit



Grid Modernization for Greater Reliability

Solar and energy storage infrastructure can help protect against power interruptions, increase power quality to local circuits and prevent against energy price fluctuation.



Economic Boost

Increase in business patronage during construction (lodging, fuel, food, materials) as well as providing jobs stimulus during construction and long-term maintenance.



Emission Reduction

Solar and energy storage infrastructure do not produce greenhouse gas emissions during operation.



Pollinator Habitats

Undisturbed land creates a healthy, abundant, and safe habitat for pollinators to flourish. In Canada, insect pollination is estimated to directly contribute 3.18 billion dollars to national crop production.



THE PERKS

Here's how your community can benefit



Conserving Fresh Water Resources

Traditional power generation uses massive amounts of fresh water in their processes to cool systems. This is not required for solar and energy storage resources.



Fallow Land

Solar and energy storage resources allow farmland to rest. When land is left to fallow, the soil has a chance to recover and restore helpful organic matter and nutrients while improving the soil's ability to hold moisture.



Supporting Community Growth

In a broader commitment to the communities we work, we strive to negotiate options for:

- Creating scholarships or charitable funds during project life
- Building local EV charging stations during construction
- Planting pollinator habitats within the project
- Other alternatives by suggestion



WHAT TO EXPECT

Here's our approach to making great things happen



Step One – Engagement

Through out the project development cycle, Shift will consult with key stakeholders to illicit and address concerns. This includes indigenous communities, neighbouring residents, special interest groups and interested members of the public.

Step Two – Provincial Level

Large Energy Storage projects must file a Class Environmental Assessment for Minor Transmission Facilities with MECP.

Step Three – Municipal Level

Like any development, solar and energy storage projects must follow local processes for land use permits which typically involve site plan applications and aligning with existing zoning by-laws.



THE ASK

**You have the power to
make sustainability a
reality in Arran-Elderslie**

Municipal Support Resolution

The IESO has stated municipal support to be a mandatory requirement to submitting a bid into the LT1 RFP to address Ontario's energy crisis.

We ask that you provide support in the form of a signed MSR. A MSR will allow us to participate in the procurement process.

If awarded a contract from the IESO, the project will go through all the normal permitting processes where we can discuss the options to further benefit your community.



Questions

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Contact us.



MAILING ADDRESS

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Acton, Ontario
CANADA
L7J 1H3



AVAILABILITY

Monday – Friday
8:00 – 5:00 PM EST



GET IN TOUCH

Bogdan: 416-953-3495



OUR WEBSITE

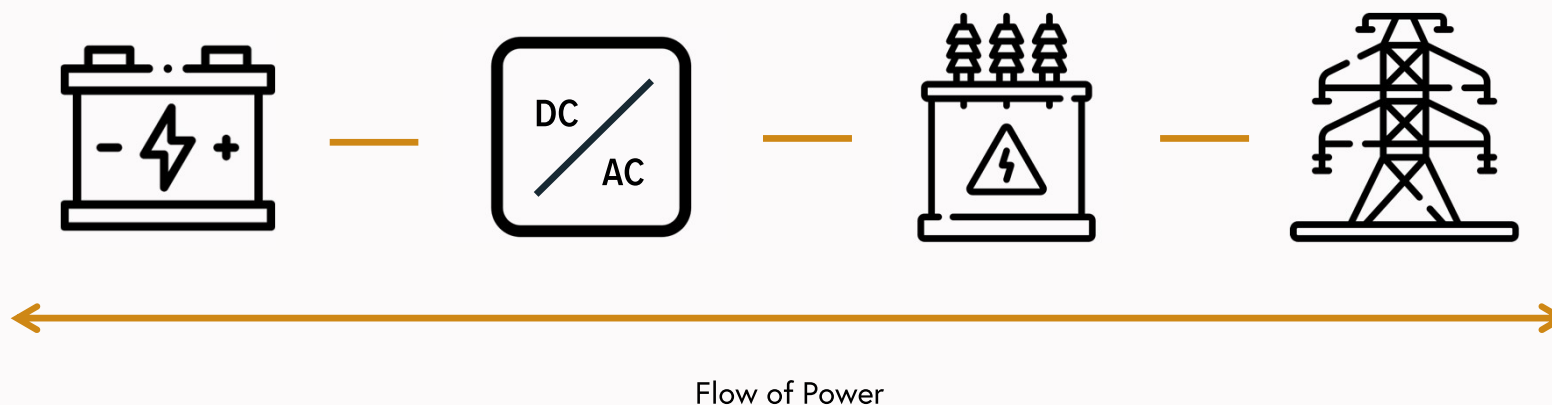
shiftsolar.ca
info@shiftsolar.ca





THE TECHY BITS

Here's how energy storage works



Battery Energy Storage Systems (BESS), are power plants that enable energy from the electrical grid, to be stored and then released when customers need power most. Lithium-ion batteries, which are used in mobile phones and electric cars, are currently the most-used storage technology for large scale energy storage projects. A site consists of containerized batteries, inverters, medium voltage transformers, gravel internal access roads, buried collector and communication cabling, a small transmission substation, potential garage and operations and maintenance building.