

Community Solar Opportunities

St. Paul's Anglican Church
Edmonton, Alberta
Oct. 19, 2019
1-5pm



Energy
Efficiency
Alberta



SPICE



Anglican Diocese of Edmonton

Community Solar Opportunities

Workshop Outline

Alberta's new Small Scale Generation Regulation

The Community Generation option

How “export-only” solar projects work.

St. Michael of All Angels Anglican Church.

The SPICE investment vision



Alberta's Small Scale Generation Regulations

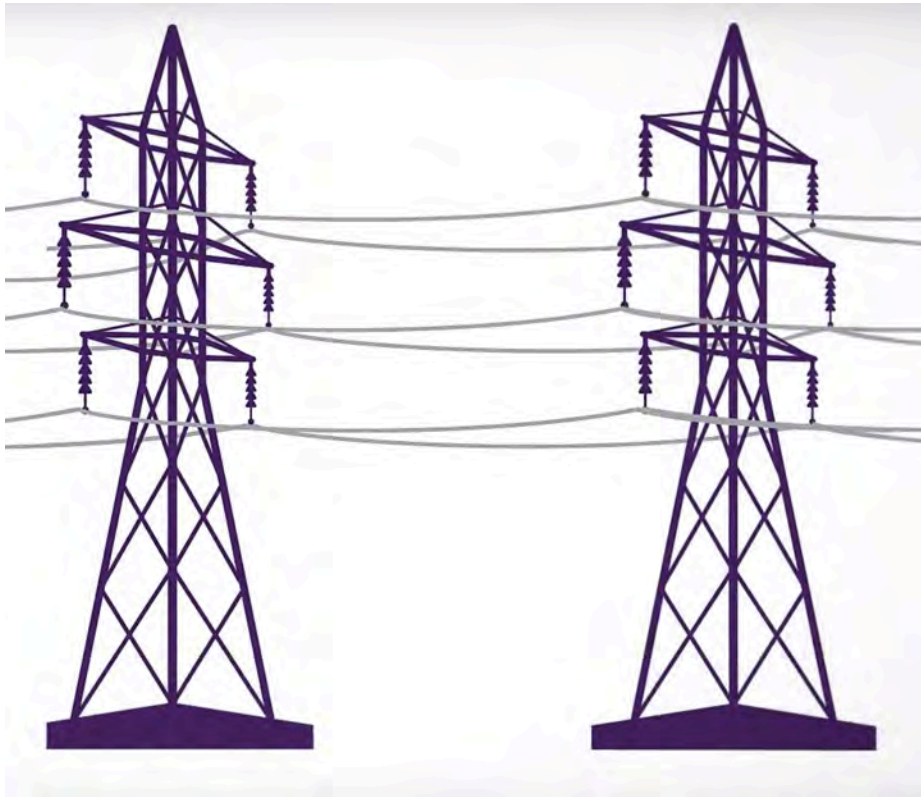
- Designed to fill the gap between Micro Generation and utility-scale Distributed Generation
- It permits an “export only” option for medium sized systems.
- It is specifically for renewable energy generators.

Community Generation Regulations

- Community Generation is a subset of Small Scale Generation.
- Only available to qualified Community Groups”.
- An “incorporated congregation” qualifies.
- These projects must demonstrate specific community benefits.
- A Community Generation project will have its metering costs covered.



Alberta's Power Pool



Electricity in Alberta

1. Retailers - Who sends you the bill

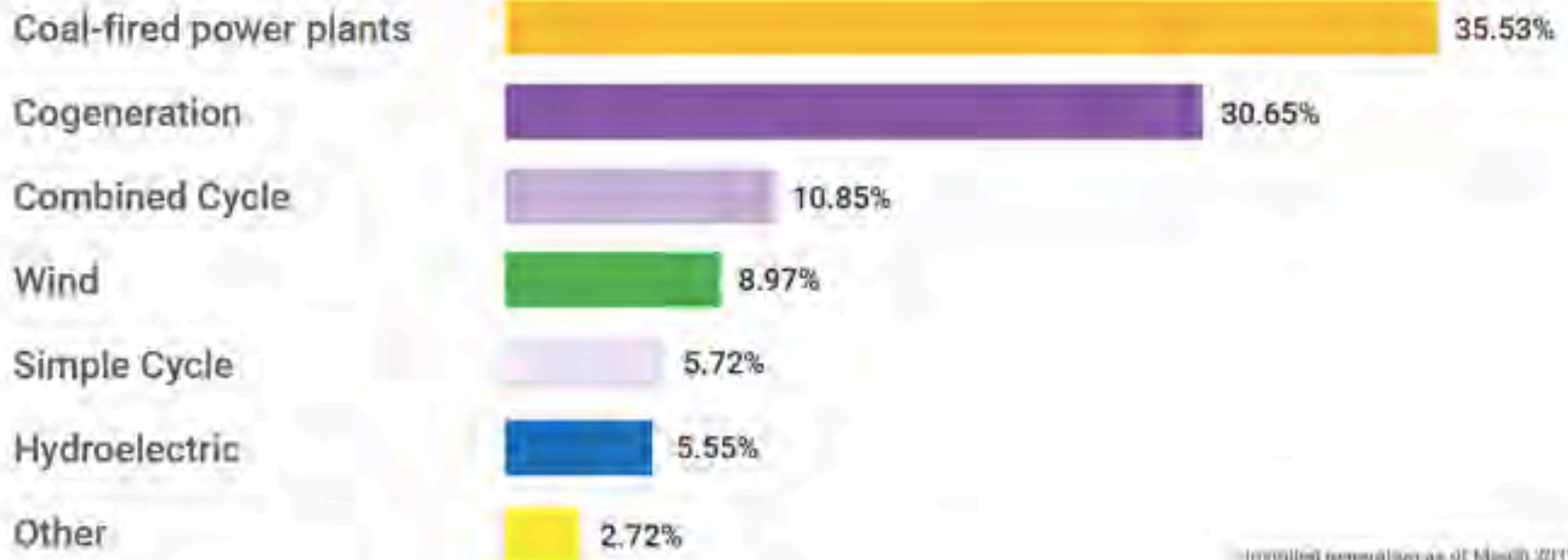
2. Distributor - wire line owner (EPCOR)

- delivery charges

3. Generator - Coal, Gas, Hydro, Wind, Biomass, Solar

- energy charges

Where does Alberta's power come from?



Installed generation as of March 2019

Alberta System Overview

26,000 KM

of transmission lines



Installed generation

16,106 MW



Peak demand

11,697 MW

Single control area of

660,000 KM²



284

generating units

~201



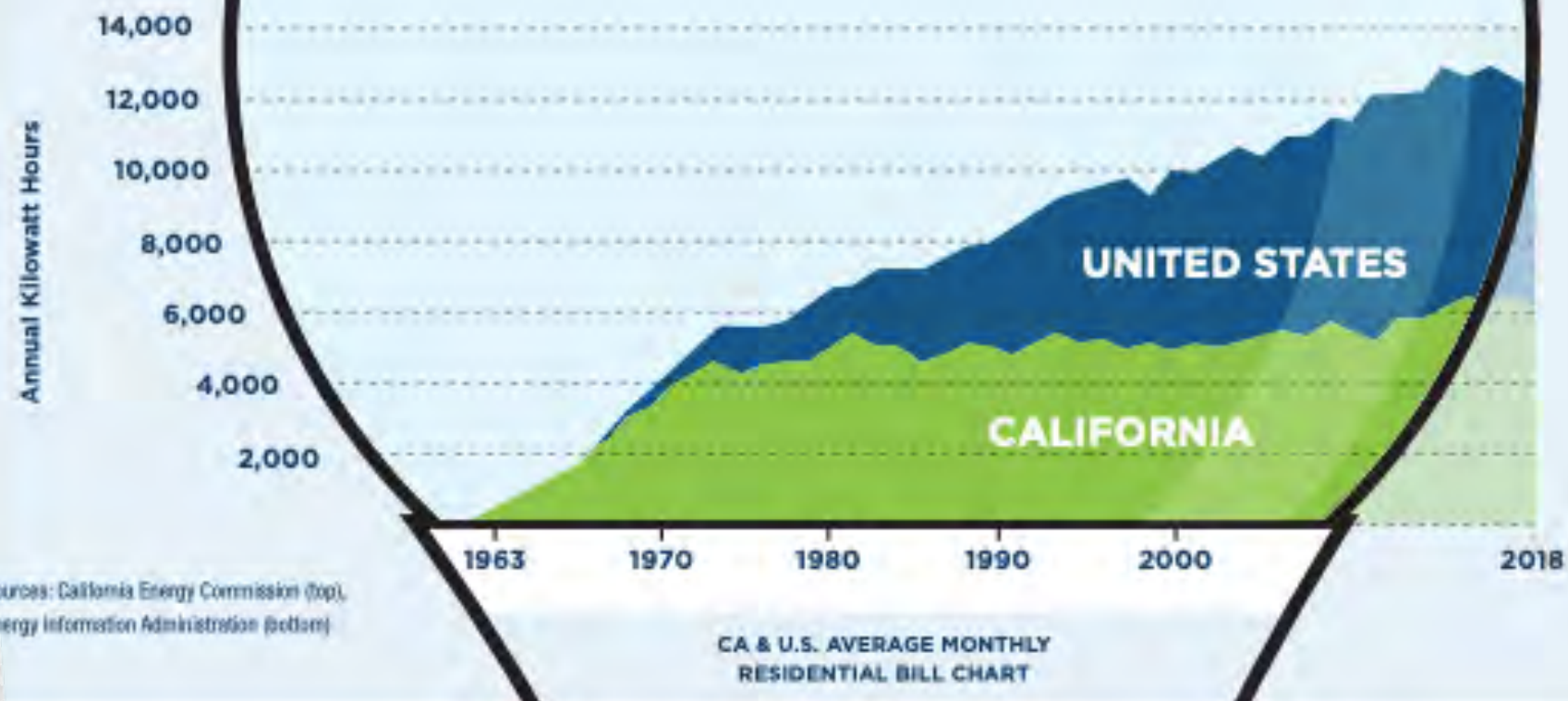
market participants

3

interties
to BC, SK and
Montana

As of February 2019

PER CAPITA ELECTRICITY CONSUMPTION



CEDC Tax Credit



Leduc Community Recreation Centre

- New opportunity for investors through the **Community Economic Development Corporation (CEDC) Tax Credit**.
- Newly developed legislation (Investing in a Diversified Alberta Economy Act) will allow SPICE, other Opportunity Development Cooperatives (ODC), and social funds with social impact initiatives to offer a **30% income tax credit for investors**.
- SPICE is an Opportunity Development Cooperative



Charity Tax Credits

- ✿ This is a federal and a provincial tax credit for personal tax liabilities.
- ✿ They are filed simultaneously.
- ✿ The diocese is a registered charity as are all of the parishes.
- ✿ The combined credit is equal to 50% minus \$50.
- ✿ Donation tax credits are available to anyone making a donation of cash, securities, or gifts in kind
- ✿ Gifts in kind are receipted at the market value of the gift.
- ✿ In kind services are not eligible.
- ✿ Gifts of securities are eligible with special treatment.
- ✿ The tax credit can be carried over for up to five years.



A Contract for Differences

- How does it work?
- Who pays for it?
- Green attributes
- Present programs
- Possible applications: government and private





Community Benefit Agreements



A legally binding written contract between a small scale power producer and a community group in respect of a small scale generating unit that confers social, environmental or economic benefits to the community group.

St. Michael and All Angels Church 25 kW Solar System



Small Scale Generation
Community Generation

Export Only

Utilizing the
Investment Tax Credit

Community Benefit Agreement



St. Michael's Church 25 kW Small Scale Generation Solar System

Economic Analysis

System size DC	25.4 kW
Solar energy generated (yr. 1)	30,759 kWh
Net capital cost	\$58,997
Annual revenue generated	\$4,168/yr.
Community Benefit Agreement value	\$20,000
Power Pool Price	13.0¢
Levelized Cost of Energy	17.7¢
Simple Payback	19.8 yrs.



St. Michael and All Angels Church 100 kW Solar System



Small Scale Generation
Community Generation

Export Only

Utilizing the
Investment Tax Credit

Community Benefit Agreement



St. Michael's Church 100 kW Small Scale Generation Solar System Economic Analysis

System size DC	101.7 kW
Solar energy generated (yr. 1)	30,759 kWh
Net capital cost	\$58,998
Annual revenue generated	\$16,786/yr.
Community Benefit Agreement value	\$40,000
Power Pool Price	14.0¢
Levelized Cost of Energy	18.9¢
Simple Payback	19.6 yrs.



SPICE Investments

An investment platform for Community Generation

Services for:

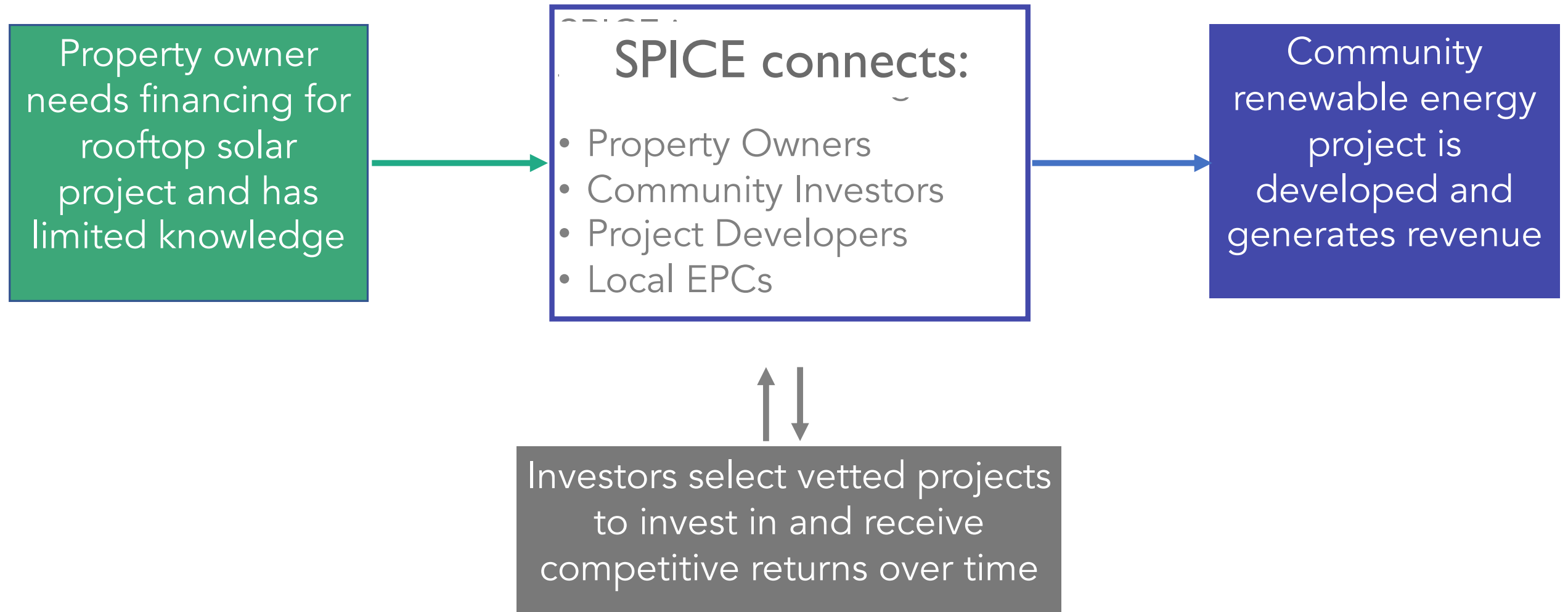
- Property Owners
- Solar System Providers
- Investors
- The Community

Membership Opportunity

- Local competitive green investment opportunities
- An ownership share in a local green investment cooperative
- A vote to influence the Opportunity Development Cooperative



SPICE Investments



SPICE Investments



Diversify & Divest

SPICE investments are TFSA and RRSP eligible and with us, you have choice. Our offerings, allows our investors to match their money with meaning. Choose to stabilize your portfolio by adding in clean energy or re-purpose your RRSP & TFSA funds, to more ethical options.



Community Benefit

Our green energy investment opportunities, not only bring benefits to the environment but also to growing your communities, so your children inherit better futures.



Online Monitoring

Have the cake and eat it too. We exist to grow your pocket but also your understanding of energy, and energy investment. You get online access to an investor's platform and updates, that help you understand the status of your projects, as well what peripheral information that is relevant to you.



Secured By Tangible Assets

You can rest assured that your investments are backed by real assets. Assets which you can see in your own community benefiting those around you.



Competitive Returns

SPICE takes due diligence seriously. We make extra effort to review each project's details and success before creating an offering. We work hard to only source opportunity that offers you, competitive and stable returns.



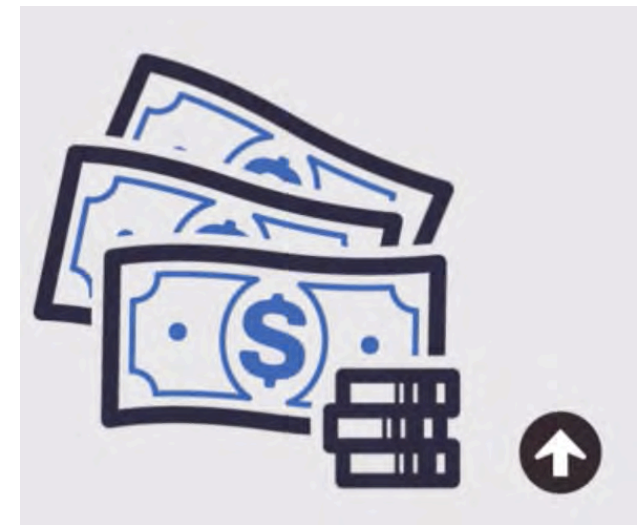
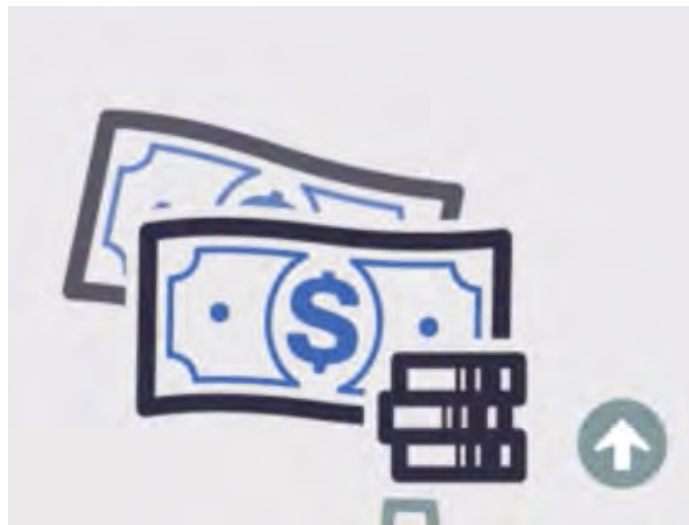
GHG Reduction

The investments SPICE select to offer, have GHG reduction prioritized equally with our community and profit. When you invest with SPICE, you invest in a legacy that will withstand the test of time, and build flourishing futures for generations to come.



SPICE Investments

Alberta Securities Commission Rules



SPICE Investments



Rio Terrace Community League

Diversify and Invest

SPICE investments will be TFSA and RRSP eligible. Stabilize your portfolio with clean energy investments.

Community Benefit

Our green energy investment opportunity will offer environmental benefits, and local community benefits as well.

On-line Monitoring

You get online access to the investor platform and project status updates.

Secured by Tangible Assets

You can rest assured that your investments are backed by real assets, visible in your community.

Competitive Returns

SPICE will vet its projects to offer competitive, stable returns.



Solar Farms



First Baptist Church - Maryland 2MW



Episcopal Diocese of Vt. Maryland 147kW

There is a vanguard opportunity for churches, with many different approaches that can be built on for other churches.





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INVEST IN YOUR FUTURE.

Grow your Principal with your **Principles**

SPICE offers simple, clean energy investments that are sustainable and profitable.

[FOR INVESTORS](#)

[FOR PROJECT DEVELOPERS](#)



Solar Power Investment Cooperative of Edmonton



Plans

- Offer five community solar educational workshops
- Community Benefit Agreements Design Charettes
- What would be a realistic Contract for Differences price?
- Legal documents PPA, Offering Memorandum, Loan and Securities documents,
- Offer CEDC 30% tax credit and TFSA, RRSP eligibility.
- More fully develop member and investor services.

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