

iLamp Roadmap for The State of **Minnesota**

This document covers information required to build a road map to commercial viability for the iLamp territorial license for the state of Minnesota.



Minnesota Population

5.7 Million

GDP

\$412.4 Billion

Minnesota State Dept.
for Transportation Budget

\$2.7 Billion

Street lighting is the single largest source of carbon emissions from local government, typically accounting for 30-60% of their total emissions.

The crises in California and Texas are different, in scale and severity. One faced fire, the other an ice storm. But experts say the power outages in both states make one thing clear: neither is prepared for the chaos of the climate crisis.

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Climate change is here, and Minnesotans are already experiencing a higher frequency of extreme weather—like devastating droughts, flooding and warmer winters. These unusual weather patterns are exacerbated by climate change, and it's a cause for concern among residents. A 2021 survey indicated that two-thirds of Minnesotans are worried about global warming. To avoid the worst impacts of climate change, the state must rapidly scale up its response and deploy a broad set of climate solutions.

A New Focus For Climate Action In Minnesota

In 2007, Minnesota was a national leader in climate action with the adoption of the bipartisan Next Generation Energy Act, setting statutory goals to reduce GHG emissions by 15% from 2005 levels by 2015, 30% by 2025, and 80% by 2050. Minnesota missed its goal in 2015 and is not on track to meet future goals. Since 2005, overall GHG emissions have declined by just 8%.

Minnesota state leaders took an important step toward expanding our climate strategy on September 16, 2022. The Governor's Climate Change Subcabinet released Minnesota's Climate Action Framework, a comprehensive game plan for how the state can mitigate and adapt to a changing climate.

1. Minnesota State electricity is primarily served by investor owned utilities **Xcel Energy** and **Minnesota Power**. There are also 124 municipal electric utilities in Minnesota. By far the largest municipal electric utility is **Rochester**, which serves a city of approximately 123,000 people. The next largest municipal, **Moorhead**, is much smaller, with a population of approximately 44,000. The other municipal electric utilities with more than 10,000 customers are **Alexandria, Anoka, Austin, Chaska, Elk River, Owatonna** and **Shakopee**.
2. All potential partners can be found here, there are multiple and some state owned <https://www.publicpower.org/public-power-minnesota>



Creativity is the power to correct the seemingly unconnected.

- Nikola Tesla

The Minnesota Opportunity

The amount of energy Minnesota produces from renewable resources like solar power and wind has risen 60% over the past decade. Today, renewable energy accounts for 28% of Minnesota's electricity generation, with 52% of our energy coming from carbon-free sources like renewables, nuclear, and hydropower. The result? Greenhouse gas emissions from power sectors have dropped 40% over the last 10 years.

This isn't an accident. Smart legislation, like the 2007 Next Generation Energy Act, which established Minnesota's renewable energy goals, set Minnesota up for success. Utilities have also led the way, with strong investments in clean power.

Although utilities are producing less carbon and more renewable energy, there is still progress to make in Minnesota. This includes addressing the energy burdens of low-income households, fixing grid inadequacies, and making access to clean energy more equitable.

The Clean Energy and Efficient Buildings goal of Minnesota's Climate Action Framework looks to tackle these challenges, with solutions that will save Minnesotans money and protect our climate.

Some of these solutions include:

- Establishing a standard to achieve 100% carbon-free electricity and 55% renewable electricity by 2040.
- Adapting our grid through transmission upgrades to enable greater reliability and renewable energy access and integration.
- Improving building codes and standards so that all new commercial and large multi-family buildings produce net-zero greenhouse gas emissions by 2036.

Minnesota Case Studies

Excel Energy Convert Street Lights to LEDs

In 2016, Xcel Energy began a LED street light conversion project on all 300,000 utility owned street lights across its service territory, including the areas in Colorado, New Mexico, Texas, Minnesota, North Dakota, South Dakota, Wisconsin, and Michigan. The costs of the replacements are built into Xcel's proposed rates, so cities do not have to pay up-front for the installations. The utility estimates that it will see energy and maintenance savings of approximately 3.6-6.6% on the LED upgrades, or \$3,000 to \$5,000 per month for an average-sized city. The utility also offers a reduced tariff rate specific to LED street lighting. Municipalities have a higher monthly fixed charge for the fixtures, but the average energy bill savings is approximately 4-7%.

Minneapolis invests \$9 million into fixing street lights

Millions of dollars are getting poured into a big public safety initiative in Minneapolis, and it has nothing to do with law enforcement. Mayor Jacob Frey has earmarked \$9 million for citywide lighting improvements in the 2023-2024 budget. City officials are hoping increased lighting will deter crime.

"Underground electrical wiring that is failing, said Margaret Anderson-Kelliher, Director of Minneapolis Public Works. "That is the major reason that in a few of our neighborhoods, we see total outages. It doesn't matter about replacing a bulb because the lights won't come back on."

Using federal dollars from American Rescue Plan, work has already started on fixing some of the areas most in need or with a backlog of repairs, including the Stevens Square, Loring Park, Como, and Marcy-Holmes neighborhoods. A backlog of more than 650 street lights in need of repair is now down to approximately 200 street lights.

Stillwater Street Lighting

\$3,800,000 in fiscal year 2024 is appropriated from the general fund to the commissioner of transportation for a grant to the city of Stillwater to pre-design, design, construct, and equip street lighting improvements to the city of Stillwater's historic downtown. This appropriation includes money for replacement of all street lighting infrastructure in the downtown area of the city of Stillwater, including but not limited to conduits, wiring, poles, light-emitting diode (LED) lights, fixtures, and other related equipment.

This appropriation is one time and is available until completed or abandoned, subject to Minnesota Statutes, section 16A.642.

Minnesota Power converts local street lights to LED

The street lights in Morrison County are looking a little different these days.

Minnesota Power began its LED Street Light project in April 2020. According to Minnesota Power Senior Communications Specialist Kelley Eldien, all of the street lights and most of the area lights in Little Falls have already been converted to LED. Only some larger customer-owned area lights and flood lights have yet to be converted.

In all, 890 street lights and 338 area lights in Little Falls, Royalton, Pierz, Upsala, Lastrup and Flensburg have been updated. Area lights are considered those that light parking lots or customer yards.

SMART traffic signals helping Minnesota DOT get timing down

New software for the Minnesota Department of Transportation's (MnDOT) high-tech traffic signals is helping the department better measure traffic patterns, with deployment of the updated technology in progress at 50 intersections across the state.

The SMART Signal system (Systematic Monitoring of Arterial Road and Traffic Signals) collects and analyzes traffic data, ultimately gauging when and where backups occur on a given roadway. The new software upgrade—created by Henry Liu, associate professor of civil engineering at the University of Minnesota and original SMART Signal designer—allows direct retrieval of traffic data from the signal controllers without the need for any additional hardware.

The warning signs for Minnesota

Minnesotans are feeling impacts of climate change, from higher temperatures, more extreme storms with intense flooding, and changes in our unique and cherished ecosystems. These impacts will continue to have serious effects on the economy, natural environment, and quality of life in Minnesota.

The United States Environmental Protection Agency has reported that "Minnesota's climate is changing. The state has warmed one to three degrees (F) in the last century. Floods are becoming more frequent, and ice cover on lakes is forming later and melting sooner. In the coming decades, these trends are likely to continue. Rising temperatures may interfere with winter recreation, extend the growing season, change the composition of trees in the North Woods, and increase water pollution problems in lakes and rivers. The state will have more extremely hot days, which may harm public health in urban areas and corn harvests in rural areas.

In Minnesota, climate change has hit home, with three 1,000-year floods since 2004 and dozens more intense weather events - from hailstorms to tornadoes to droughts.

Financial impacts are just as real. In 2013, Minnesota had some of the highest weather-related disaster claims in the country, even topping some tornado- and hurricane-prone states. University of Minnesota economists estimate that electricity generation annually causes more than \$2 billion in environmental and health damages, such as asthma aggravated by air pollutants.

Wildfire season in Minnesota

Summer 2022, Minnesotans got a sudden taste of the kind of wildfire season usually associated with California.

An eruption of wildfires — most notably, the Greenwood fire in the Superior National Forest — was driven by drought. June, July and August had more than four times the number of fires as the 10-year average for each month.

"The severity of the fires (was unprecedented), like how much was actually consumed, how deep they were burning, how difficult they were to control," said Allissa Reynolds, the wildfire prevention supervisor at the Minnesota Department of Natural Resources.

Flood Risk

Since 2000, widespread rains of more than six inches are four times more frequent than in the previous three decades in Minnesota.

There are 285,247 properties in Minnesota that have greater than a 26% chance of being severely affected by flooding over the next 30 years. This represents 13% of all properties in Minnesota.

“The rain events that used to occur every 50 or 100 years are now happening every 10 years or even more frequently,” said Katrina Kessler, Minnesota Pollution Control Agency commissioner. “It’s not just once in your lifetime, it’s three or more times in one decade that you’re having to think about impacts on local resources as well as infrastructure and homes.”

Minnesota Pollution Control Agency received responses from 380 communities in its 2022 Climate Action Survey. The agency found that 54% reported more extreme rainfall and storms, 49% experienced extreme drought, 46% have seen less consistent snow cover and 33% have seen more frequent flooding than in the past. While three-fourths of the cities, counties and tribes addressed climate change in some of their planning, just 12% had a stand-alone climate plan, according to the survey.

Potential partners

Xcel Energy

<https://my.xcelenergy.com/>

Xcel Energy Inc. is a U.S. regulated electric utility and natural gas delivery company based in Minneapolis, Minnesota, serving more than 3.7 million electric customers and 2.1 million natural gas customers across parts of eight states (Colorado, Minnesota, Wisconsin, Michigan, North Dakota, South Dakota, Texas and New Mexico). It consists of four operating subsidiaries: Northern States Power-Minnesota, Northern States Power-Wisconsin, Public Service Company of Colorado, and Southwestern Public Service Co.

Minnesota Power

<https://www.mnpower.com/>

Minnesota Power, a division of ALLETE, Inc., is committed to the reliability and security of the regional power system that provides electricity in a 26,000-square-mile electric service area in northeastern Minnesota. Minnesota Power supplies retail electric service to 145,000 customers and wholesale electric service to 15 municipalities.

Southern Minnesota Municipal Power Agency

<https://smmpa.com/>

Southern Minnesota Municipal Power Agency (SMMPA) is a not-for-profit joint-action agency formed in 1977 during a time of increasing demand for electricity. Member utilities united through joint action and rallied behind their shared purpose of securing a long-term energy solution. By using the collective strength of SMMPA, the Agency was able to invest in a long-term source of reliable and affordable power.

Southern Minnesota Municipal Power Agency is proud to provide safe, reliable and affordable electricity in an efficient and environmentally responsible manner. For decades, SMMPA and its 18 Members have relied on its main source of electricity, Sherco Unit 3, to provide customers reliable electricity at a fair price. Today, SMMPA is developing a diverse mix of generation resources that reduces our dependence on coal and provides a reliable, cost-effective and sustainable power supply.

Central Minnesota Municipal Power

<https://cmpas.org/>

Central Municipal Power Agency/Services (CMPAS – pronounced “compass”) serves as a public power joint action agency providing power management and utility services for its electric utility members and affiliates. As an agent of the Central Minnesota Municipal Power Agency (CMMPA), CMPAS operates as a project-oriented, partial or full-requirements agency.

CMPAS provides a wide range of services including strategic management, long-term power supply planning and procurement, energy market scheduling services, transmission ownership, project development and administration, utility accounting and finance support, and distribution mapping and modeling.

Minnesota Municipal Power Agency

<https://www.mmpa.org/>

MMPA’s mission is to provide reliable, competitively-priced power to its members and to create value for both the Agency and its members. To deliver on its mission, the Agency takes a long-term approach to power supply planning that includes a diversified portfolio of owned and purchased generation containing both renewable and nonrenewable resources.

In addition to supplying reliable power, MMPA is committed to supporting the communities we serve. The Agency accomplishes this in multiple ways, including its Energy Education Program, development of local power generation in member communities, providing conservation and renewable energy programs to members’ customers and converting waste from our member communities into a valuable source of energy at the Hometown BioEnergy facility.

Northern Municipal Power Agency

<https://www.nmpagency.com/>

The Northern Municipal Power Agency (NMPA) was established in 1976 as a Joint Action Agency to serve as the energy supplier for 12 municipal utilities in Minnesota and North Dakota. NMPA is a member of the Minnkota Power Cooperative joint system. Each of the participants has a representative on the NMPA board of directors. The Agency owns a 30% share of the 427,000-kilowatt Coyote Station located near Beulah in western North Dakota. NMPA also owns a load-ratio share (approximately 15%) of the

Minnkota Power Cooperative transmission system. Minnkota of Grand Forks, N.D., is the operating agent for NMPA. NMPA headquarters is located in Thief River Falls, Minn.

ALP Utilities

<https://www.alputilities.com/>

ALP Utilities is an Alexandria, MN community owned municipal utility that provides residential and commercial electric and water services to the Alexandria area. ALP has been serving the Alexandria area for over 130 year with a commitment of affordability, reliability and service excellence. ALP is owned by those we serve and governed by local community members. ALP Utilities provides power to over 8,433 residential electric accounts.

Austin Utilities

<https://www.austinutilities.com/>

Austin Utilities is a community-owned, not-for-profit electric, water, and natural gas utility, serving more than 12,000 customers within a community of over 23,000 people. Austin is located in Southeastern Minnesota approximately 12 miles north of the Iowa border and approximately 100 miles south of the Twin Cities metro area.

Buffalo Municipal Utility

<https://www.ci.buffalo.mn.us/>

A goal to provide reliable electric service, exceptional customer service and affordable energy to the City of Buffalo. As the city expands, striving to improve services through system improvements and implementing new technologies. Currently owns and maintains over 1 million feet of primary distribution line and 1,550 transformers.

Chaska Electric Department

<https://www.chaskamn.gov/>

MMPA operates the combustion turbine generator in the city. Three electric distribution substations then spread this power throughout the city using primary overhead and underground lines operated at 13,800 volts to the step-down transformers located at all industrial, commercial, and residential locations. From the transformer, or the pedestal at the lot line, the customer owned service lines then bring the power to the building.

Elk River Municipal Utilities

<https://www.ermumn.com/>

RMU serves more than 12,300 electric customers in Elk River and the surrounding area. With 611 miles of electric lines, annual energy sales reach nearly 326 million kilowatt hours.

Owatonna Public Utilities

<https://www.owatonnautilities.com/>

Owatonna Public Utilities is a community-owned, not-for-profit water, electric and natural gas supplier, created by local residents more than 90 years ago to provide high quality, affordable services tailored to the unique needs of the Owatonna area.

Rochester Public Utilities

<https://www.rpu.org/>

Rochester Public Utilities (RPU) is a municipally-owned electric and water utility located in Rochester, MN. RPU serves over 57,000 electric customers and 41,000 water customers in a 60 square mile service area, and has revenues nearing \$161 million annually. RPU operates under the direction of a five member, mayor-appointed Utility Board and under the Rochester City Council.

Further potential contacts

All Energy Solar

Saint Paul, MN
+1 800 620 3370
allenergysolar.com

MN Solar and More, LLC

St Louis Park, MN
+1 320 444 5696
mnsolarandmore.com

Winona Renewable Energy

Minnesota City, MN
+1 507 312 0190
winonarenewableenergy.com

Solar Connection Inc

Rochester, MN
+1 507 292 8400
solarconnectioninc.com

Everlight Solar

Savage, MN
+1 531 300 6500
everlightsolar.com

REAL Solar

Backus, MN
+1 218 947 3779
real-solar.com

Optimum Energy Group

Roseville, MN
+1 844 849 7094
optimumsolargroup.com

Electro Solar

Blaine, MN
+1 612 710 8919
electrosolarsystems.com

Live Wire Solar & Electric

Minneapolis, MN
+1 651 688 2400
livewiresolarmn.com

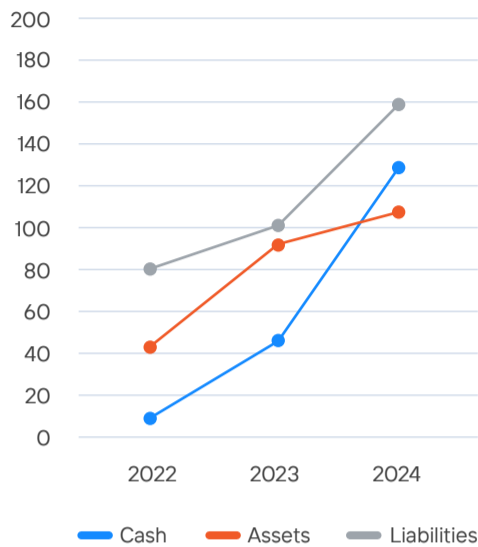
Cedar Creek Energy

Coon Rapids, MN
+1 763 432 5261
cedarcreekenergy.com

Green Energy Products, LLC

Springfield, MN
+1 507 723 4885
green-energy-products.com

Financials



Balance Sheet

Company name, iLamp Colorado Inc

Dec, 31, 202X

Assets

Current Assets

Cash	7,314	-392,686
Accounts receivable		
Inventory	5,560	5,560
Prepaid expenses		
Short-term investments		

Total current assets	12,874	-387,126
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Fixed (Long-Term) Assets

Long-term investment	2,310	102,310
Property, plant and equipment	14,442	14,442
(Less accumulated depreciation)	-2,200	-2,200
Intangible assets		3,000,000

Total fixed assets	14,552	3,114,552
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Other Assets

Deferred income tax		0
Other		0

Total other assets	0	0
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Total Assets	27,426	2,727,426
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Liabilities and Owner's Equity

Current Liabilities

Accounts payable	9060	9,060
Short-term loans		0
Income taxes payable	3349	3,349
Accrued salaries and wages		0
Unearned revenue		0
Current portion of long-term debt		0

Total current assets	12,409	12,409
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Long-Term Liabilities

Long-term debt	3450	2,703,450
Deferred income tax		
Other		

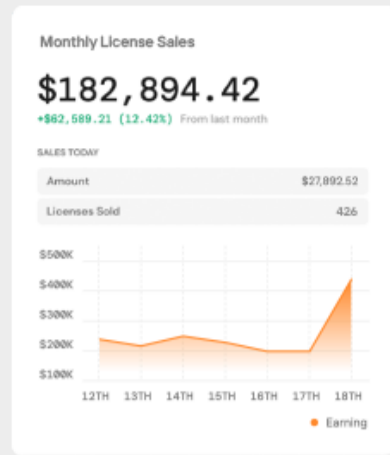
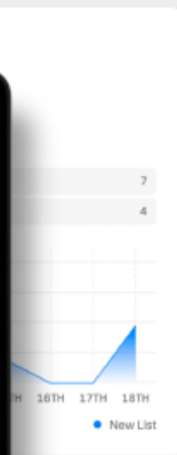
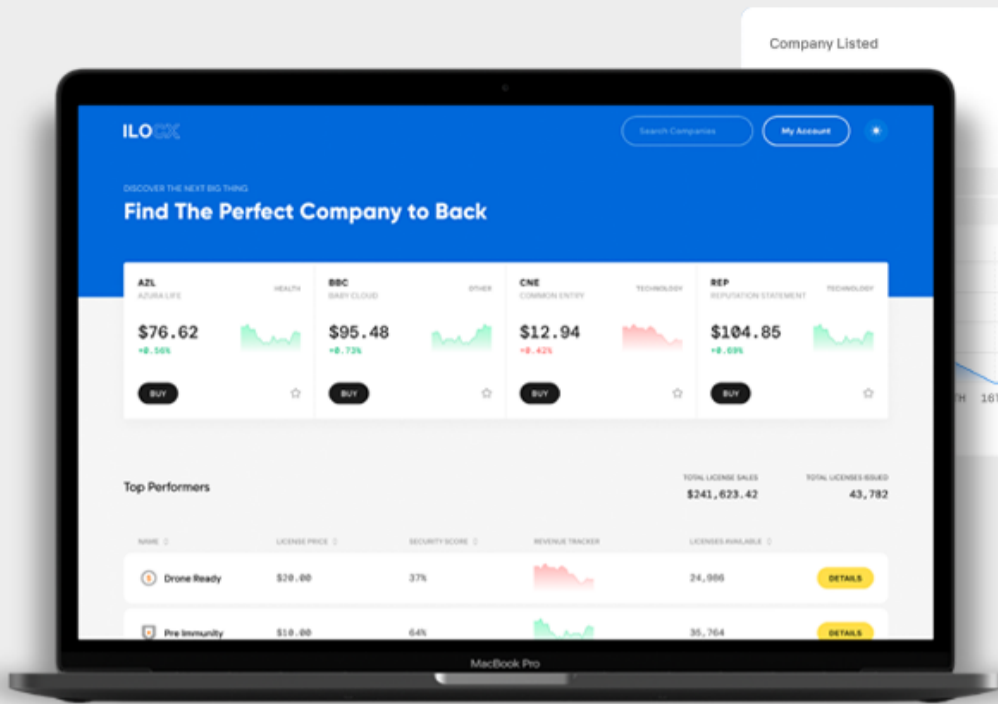
Total fixed assets	3,450	2,703,450
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Owner's Equity

Owner's investment	6000	6,000
Retained earnings	5567	5,567
Other		

Total owner's equity	11,567	11,567
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Total Liabilities and Owner's Equity	27,426	2,727,426
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Your ILO listing

List using the ILO Framework to raise money to finance your exclusive iLamp license while building local support and an online sales team to drive pre-sales.



RAISE MONEY AS YOU NEED IT

Get access to the funds you need, as you need them, smoothing your fundraising process.



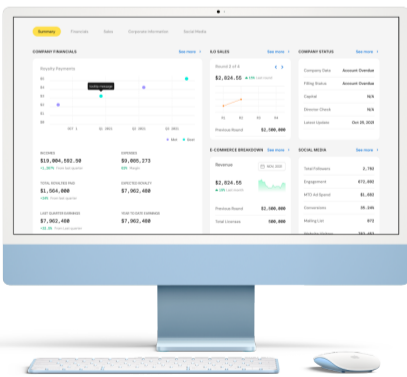
BUILD A TEAM

ILOCX framework helps companies to build effective teams that are properly rewarded.



REWARD PARTICIPATION

Incentivize buyers with ILOCX rewards, your own affiliate program, and license classes.



Listing Requirements

iLamp licenses are prequalified to list and receive an ILO instance and will be priority listed through our streamlined process with a dedicated listing manager.

Listing fees for iLamp licenses are waived for the first year, then only \$25,000 per year.

Listings with over \$1 million in sales are listed on the board at ILOCX.com.

<h1>100+</h1> <p>Total companies listed</p>	<h1>Millions</h1> <p>Total licenses issued</p>	<h1>10X</h1> <p>Returns already booked</p>
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