

iLamp Roadmap for The State of Nevada

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



Nevada Population
3.1 Million

GDP
\$155 Million

Nevada State Dept.
for Transportation Budget
\$2 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.

iLamp.com
ILOCX.com/iLamp



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ConFlowPower.com
Batteryware.com
PowerasaService.com
Droneready.com
Investinbatteries.com
ILOcasestudy.com

Exclusive License for iLamp in Nevada

In April 2019, the Nevada legislature passed a bill that requires 50% of electricity in the state to be generated from renewable resources by 2030.

Nevada is committed to reducing GHG emissions with the passage of SB 254 in 2019. Nevada adopted aggressive GHG emissions-reduction targets: 28% by 2025, 45% by 2030, and net-zero (near-zero) by 2050. These targets are in line with neighboring states in the region and are an important step toward managing climate change. Under current policies and based on the best available science, Nevada is currently on a path to reduce economy-wide GHG emissions 24% by 2025 (4% short of the 28% goal) and 26% by 2030 (19% short of the 45% goal), thus missing the 'emissions-reduction goals. Consequently, new mitigation-focused policies, programs, investments, and regulations are needed to put the state on the path toward realizing net-zero GHG emissions by 2050.

1. Nevada is primarily served by investor-owned utility: NV Energy, Headquartered in Las Vegas. Rural Nevada electricity is supplied by smaller district, county and city run utilities.
2. All potential partners can be found here. There are multiple, and some are state-owned www.publicpower.org/public-power-nevada

Deal Breakdown

Steps to enhancing value and recurring revenue

1. Reserve the territory by purchasing 10,000 ILO units of iLamp (cost \$100,000)
2. Purchase exclusive license in Nevada for \$5,000,000, pay \$300,000 on signing and the remainder in a note payable on share of revenue and capital raised at a zero coupon.



Creativity is the power to correct the seemingly unconnected.

- Nikola Tesla

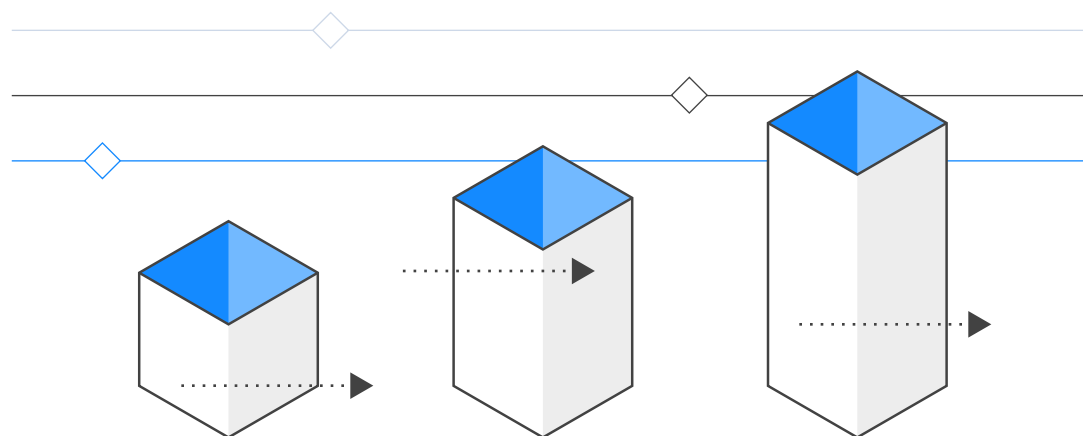
You will get an exclusive license for Nevada, a pilot pole installed, a localized iLamp.com website (see example here colorado.ilamp.com), a listing on ILOCX for your local fundraising and promotion (example)

3. A more detailed roadmap with all supporting documentation and training.
4. The ability to sell sub-licences within Nevada.
5. You pay iLamp HQ 5% of all revenue and 20% of the PaaS revenue you generate.
6. Repeat what CPG has done in California and now in 9 other States in the USA: agree to a pilot installation for iLamp. Get a contract for installation and gain 20% of the PaaS revenue from each iLamp year- on-year. 10% of the market in Nevada would yield approx \$450 million in iLamp sales over 10 years and generate \$4 million in annual recurring revenue based on 20% of PaaS revenue and all other revenue sources, camera, sensors, wifi, 5G etc estimated at \$400 per pole per annum. (based on an estimated 100,000 poles in Nevada)

Three steps to faster returns (Alternative option)

1. Buy \$1 million of iLamp ILO units at current price, and move to step 3 above. The result will be a double in the value of your units before your local ILO is listed.
2. List iLamp Nevada on ILOCX and gain local support.
3. On signing we commit to supplying a sample iLamp to install in a strategic location in Nevada and all other benefits. The \$1m iLamp ILO units purchase counts against the note as amount paid which has a large and positive impact on your opening balance sheet in iLamp Nevada. (see at the end of the document)

Stages



1. Reservation

100,000 USD of iLamp ILO found here:

<https://ilo.ilamp.com/product/ilamp/> must be purchased by logging into the account of the potential Licensee at ILOCX.

- Once this phase is complete, the potential licensee has 12 months to trigger the license or lose the option.

Completed in December 2022.

2. Get Started

Once triggered, the 10% deposit needs to be paid. In the case of Nevada, this totals \$300,000. This covers all costs to install a pilot scheme in the chosen location.

- This will include delivery and installation of an iLamp complete with a full tech stack and codes to operate and collect data and revenue from the iLamp as a demonstration to land sales and mass installations.
- This also covers:
 - The cost to list iLamp Nevada on the ILOCX for all upfront and first year listing fees.
 - The building and delivery of a website for Nevada.
 - All media and images, all data and point of sale aids, email addresses, and this detailed report covering competition, USP's, market size, list of potential partners, HQ assistance for news, and localised promotion of iLamp in the territory.

3. The Details

Once the option fee and deposit are paid, a local legal entity needs to be formed to hold the license. This is formed by the potential licensee.

The Nevada Opportunity

On October 8, 2018, the Public Utilities Commission (PUC) of Nevada approved an Order requiring Nevada's public electric utility, NV Energy, to incorporate Distributed Energy Resources (DERs), such as solar and energy storage, into its three-year system plan. The Order, in meeting the requirements of Senate Bill 146, requires NV Energy to submit a Distributed Resources Plan (DRP) as part of its triennial integrated resource plan.

This Order puts Nevada alongside leading states, such as California, Hawaii, and New York, in requiring that utilities take DERs into consideration as part of their system planning processes. This is a notable commitment to DER integration in a state that has been widely publicized for its contentious removal of net metering without a grandfathering clause for existing solar customers. Through the required distribution planning forecasts and analyses and by requiring integration with the resources plan, Nevada has elevated the role of DERs to meet grid needs. As the DRPs are developed and reviewed in Nevada, we'll have another approach to look to—in addition to the in-flight proceedings in California, New York, and Hawaii—in determining the best way to plan for DERs.

The IRA also includes several provisions related to energy equity, including \$3 billion to the Environmental Protection Agency (EPA) for grants for community-led projects in disadvantaged communities and \$27 billion for non-profit, state, and local climate finance institutions supporting the deployment of low- and zero-emission technologies. In support of rural communities, the bill includes a \$1 billion appropriation to the U.S. Department of Agriculture (USDA) for loans to finance renewable energy projects, \$1 billion for USDA's Rural Energy for America Programs, and \$9.7 billion to USDA to finance rural electric cooperatives' purchases of renewable energy.

Shared Renewables – Due to building and property attributes and ownership issues, many customers are unable to install renewable energy technologies where they live or work. Allowing shared, or community, renewable energy projects addresses these barriers. These projects have multiple owners or subscribers who pay for a portion of the project or the generation provided by the system. Virtual net metering allows a customer to receive credits from a shared system as if the generation were on site. Virtual net metering is different from a power purchase agreement (PPA), which pays the customer for the proportion of power they produce. Because it is treated as a credit on the customer's bill, the customer can avoid the tax implications of a PPA payment - which can adversely affect the economics of

the system (and may come as a surprise to the participant).

A full state brief can be found here: https://cnee.colostate.edu/wp-content/uploads/2022/10/State-Brief_NV_September_2022.pdf

Street Lighting Northern Nevada

NV Energy offers street lighting service that applies to roadway lighting installations (excluding highway and area lighting such as parking lots and other general facility lighting). Based on their customers needs, you can decide to own or you may have NV Energy own the streetlight facilities.

- **Customer-owned Streetlights**

(Installation on NV Energy's distribution system)

- Open to all customers
- Customer provides the lights
- Operated and maintained by the customer
- Monthly billing
- Metered service (customer billed for actual usage)
- Unlimited streetlight options within jurisdiction requirements

- **NV Energy-owned Streetlights**

- Service open to qualifying customers that may include municipalities, contractors, developers, and some homeowner associations. Check with your local NV Energy Planning Representative for more details
- All fixtures include cut-off optics supporting the Dark Skies initiative
- Installation by NV Energy
- Monthly billing
- Unmetered service (customer billed at flat rates defined in tariff)
- Selection limited to NV Energy's standard lighting options

Las Vegas pilots smart lighting solutions

As part of a six-month pilot, AT&T will replace existing photocells with small cell streetlight routers. This will create a smart lighting network in selected locations on Main Street, Las Vegas Boulevard, near the University Medical Center and in residential areas.

AT&T will integrate their highly secure wireless LTE and LTE-M networks with smart lighting platforms to improve lighting conditions based on schedules and traffic.

In near real-time, the platform can monitor energy usage and outages to improve streetlight maintenance. This will help reduce public safety concerns with prolonged or unreported light outages in areas of the community frequented by citizens and tourists.

Goals

“Safety and sustainability are priorities for the city of Las Vegas, and technology is playing a key role in creating safer and increasingly efficient communities,” said Michael Lee Sherwood, city of Las Vegas director of innovation and technology. “The city of Las Vegas is dedicated to improving the quality of life for residents and visitors, and we will continue to be on the cutting edge of new technologies that can help to accomplish that goal.”

The cells will also connect to air quality sensors in selected areas to help provide near real-time information on changes in temperature, ozone and particulate levels based on time of day, traffic and construction.

“Smart lighting solutions provide cities with an opportunity to drive down energy usage and improve environmental conditions,” said Mike Zeto, vice president and general manager of smart cities, AT&T.

AT&T’s Smart Cities Alliance program brings together technology leaders and industry organizations to better serve customers with end-to-end solutions. Ubiqvia joined the alliance in early 2018, and together, the companies are delivering custom lighting and smart city services to provide scalable solutions for cities, regardless of size.

Smart traffic technology in Nevada

Nevada was the first state to put autonomous vehicle (AV) legislation on the books. Last month, new legislation that further promotes research and testing on Nevada roads was signed into law. In fact, the laws in Nevada are

so AV-friendly that Dan Langford, the director of the Nevada Center for Advanced Mobility (NCAM), said if you could buy a fleet of autonomous vehicles, you could have them on Nevada roads today.

Previous autonomous testing showed that Las Vegas is ready for the technology. The downtown bus shuttle pilot had 10,000 riders in 10 days, and the city is already considering a second round.

"It was a very big success," David Bowers, the director of Las Vegas Public Works told Smart Cities Dive in May. "There was a lot of excitement about it."

But many of the projects in the works now are happening before widespread AV deployment. The city's partnership with Cisco has deployed technology at 10 intersections to track lighting, traffic, crowd measurement, environmental and waste management.

"What we are able to do with the technology now is bring in better types of data," said Brian Hoeft, director of traffic management at RTC of Southern Nevada. This data is good, Hoeft said, for current drivers — but is also setting up for the roads of the future.

At the Consumer Electronics Show's (CES) Smart Cities Hackathon, Las Vegas offered city data for teams to use. One team developed an app for Amazon's Alexa that can tell if street lights are working correctly using historical data. The city has been in touch with the team to try out the technology since the hackathon.

Outside of apps and sensor pilots, Audi has a project that is car-based. Certain models with the technology can get data from a connected traffic light system, with drivers getting sneak-previews of upcoming red lights and countdown timers displayed on their dashboard. Drivers also need an Audi connect PRIME subscription, with updates via the cars' 4G LTE connections. RTC provides traffic signal data to Traffic Technology Services (TTS), an independent telematics company that sends the data to Audi. It's available in Las Vegas first because of the city's half-million dollar upgrades to its traffic lights.

Nexar's vehicle-to-vehicle (V2V) network turns smartphones into smart dashboard cameras. Using the phone's camera, accelerometer and gyroscope, Nexar collects data and sends it to the cloud and other drivers using the Nexar app. Drivers using state vehicles will get the app first in the first statewide vehicle-to-vehicle network. Nexar's network has reported a 24% reduction in accidents in smaller pilots they have already been tried out.

The warning signs for Nevada

Here are a few specific examples where the electric grid in Nevada experienced outages or other issues:

January 2021: A winter storm caused widespread power outages throughout the state, with over 350,000 NV Energy customers losing power.

September 2020: A wildfire in the Reno area caused power outages for over 70,000 NV Energy customers.

July 2020: A heatwave caused widespread power outages throughout the state, with over 50,000 NV Energy customers losing power.

December 2019: A winter storm caused widespread power outages throughout the state, with over 250,000 NV Energy customers losing power.

September 2019: A wildfire in the Reno area caused power outages for over 50,000 NV Energy customers.

In 2020 The state's largest electric utility NV Energy issued a wide-ranging call to customers asking for voluntary electricity cutbacks between 2 p.m. and 9 p.m. on Tuesday and Wednesday in order to "offset energy supply issues caused by record-breaking heat throughout the Western United States."

While reducing electric usage has been a regular push for the utility, a specific call for reducing power consumption because of potential energy supply issues hasn't happened since the rolling blackouts in the [California energy crisis in 2000 and 2001](#), NV Energy CEO Doug Cannon said in an interview.

And just like two decades ago, Nevada's proximity to California is exacerbating issues with Nevada's energy supply. But California's issues — which include [several days of rolling blackouts](#) for millions of residents — aren't the only factor that led to the call for reducing electric use.

Other reasons include continual record-high temperatures, poor weather conditions from smoke and fires blowing into northern Nevada, a later peak in expected energy use than projected by the utility and the COVID-19 pandemic keeping more people home and using more electricity in their homes.

"This really is an unprecedented event on the Western energy grid, and we are seeing unprecedented demand on the Western energy grid right now,"

Cannon said in an interview. “You talk about 100-year flood events, these kinds of unprecedented events that occur, I would put the demand that we’ve seen over the last five days in that category.”

Although NV Energy is the primary electric utility and grid operator in Nevada, the flow of electricity does not stop at any single state’s boundaries. Power generation between Nevada and neighboring states is bought and sold freely to help make up gaps in power supply — a boon during normal times and a problem during times of scarcity.

Electric use data show that the call for conservation has so far worked out. Cannon said that combined electric reduction from residential and business customers shaved about 250 to 300 megawatts of expected demand off of “peak” electric usage on Tuesday, the equivalent of a small-to-medium power plant’s output.

Cannon said it was probable that Wednesday would be the last day the utility asked customers to voluntarily reduce electric usage, as temperatures across the western part of the country are expected to drop through the rest of the week.

But the widespread public call to reduce electric usage has been met with concern and confusion about Nevada’s energy supply plan, with fears that the state could end up following the same path of rolling blackouts and electric uncertainty currently befalling California.

Cannon said that NV Energy was taking steps to ensure adequate future energy supply, from a [\\$2 billion planned statewide transmission upgrade](#) to the wide suite of expanded solar generation and battery operations contracting with the utility to expand capacity.

“I don’t think it’s something that customers need to spend a lot of time being concerned about,” he said. “We have a very robust plan to provide energy resources for Nevada.”

How the reductions worked

The utility’s recommendations for residential customers were straightforward: keep thermostats above 78 degrees or higher, turn off lights, pool pumps and other appliances not in use, as well as not running dishwashers or washing machines during peak hours.

Beyond residential cutbacks, Cannon said that many of the utility’s largest

customers, including casino resorts and mining operations, also reduced operations to help pitch in. Casinos were able to pre-cool spaces during non-peak hours or temporarily turn off pumps or other equipment, while industrial, manufacturing or mining customers of the utility shut down certain energy-intensive equipment during the afternoon.

He also said the utility worked with rural electric cooperatives to reduce their afternoon water pumping electric load, all part of the statewide effort to reduce electric usage.

Preliminary data indicates that the company's call to reduce power consumption worked.

2021 Governors status of energy report - https://energy.nv.gov/uploaded-Files/energynvgov/content/Media/2021_status_of_energy_final_ada.pdf

Potential partners

NV Energy

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

NV Energy has served citizens in northern Nevada for more than 150 years, and southern Nevada since 1906. Today, our service area covers nearly 46,000 square miles of the fastest growing state in the U.S., including the communities of Las Vegas, Reno-Sparks, Henderson and Elko. NV Energy provides a wide range of energy services to nearly 1.3 million electric customers throughout the state and more than 50 million tourists annually.

Nevada Power, Sierra Pacific Power and Sierra Pacific Resources merged in July 1999. In 2008, the subsidiaries began doing business as NV Energy signaling our commitment to serving Nevada's energy needs.

NV Energy began serving Las Vegas in 1906 when the city was little more than a village at the end of a railroad line. The company's first distribution system was powered by a small generator and the copper wires were supported by 6- by 8-inch redwood timbers from the town lumberyard.

Overton Power District No. 5

<https://www.opd5.com/>

Overton Power is a non-profit general improvement district created in 1935 by the State of Nevada. The District's service area encompasses the North-east quadrant of Clark County, Nevada, which includes the City of Mesquite and the unincorporated towns of Bunkerville, Glendale, Logandale, Moapa, and Overton. The District's service area also includes the Moapa Band of Paiutes, Valley of Fire State Park and portions of the Lake Mead National Recreation Area including Overton Beach and Echo Bay

Valley Electric Association

<https://vea.coop/>

Valley Electric Association employs about 130 teammates to serve more than 45,000 people across a 6,800-square-mile area in Southwest Nevada. Headquartered in Pahrump, Nevada.

Valley Electric Association was consolidated in 1965 from four early power companies serving distant communities in our corner of the state: Amargosa Valley Electric Cooperative, Beatty Utility Company, Pahrump Utility Company, and White Mountain Electric Cooperative in Fish Lake Valley.

These companies joined forces because they understood a basic principle of the cooperative model..

Valley Communication Association

<https://valleycom.com/>

Valley Communications Association's (VCA) fiber backbone utilizes the electric infrastructure built by Valley Electric Association. By piggybacking on the reliable poles and wires already in place, VCA has been able to provide the fastest, most reliable internet service available at a very competitive price. Through this relationship, VCA was able to establish Beatty as the first all-optical-fiber community in Nevada.

Lincoln County Power District No. 1

<https://lcpd1.com/>

Lincoln County Power is a member of the Touchstone Energy Cooperative.

Touchstone Energy® Cooperatives is a national network of electric cooperatives and districts across 46 states that provides resources and leverages partnerships to help member cooperatives and their employees better engage and serve their members. By working together, Touchstone Energy cooperatives and districts stand as a source of power and information to their 32 million member-owners every day.

Community-friendly values mixed with the not-for-profit business model are what make electric co-ops and districts strong. As a not-for-profit entity, members know they can trust their electric utility, because it was created to deliver on the promise of providing safe, reliable and affordable electricity to member-owners – not to generate money for shareholders.

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

Mt Wheeler Power

<https://www.mwpower.net/>

Mt Wheeler Power is a member of the Touchstone Energy Cooperative.

Mt. Wheeler Power currently services more than 4,600 member-owner accounts disbursed over a 16,000 square mile territory in four Nevada counties and three Utah counties.

Well Rural Electric Company

<https://www.wrec.coop/>

Wells Rural Electric Company is a member-owned, non-profit cooperative that provides electrical service across 1,400 miles of power line to more than 10,000 square miles of Northeastern Nevada and part of Tooele County in Utah.

Incorporated in 1958 to obtain central station power for the rural areas around Wells, WREC started operation in June of 1960 with 583 customers and has since grown to more than 6,000 accounts with headquarters in Wells and offices in Carlin and West Wendover.

Our owners range from residential users to business owners, casinos, ranchers and mining operations with a total load in excess of 140 megawatts.

Raft River Rural Electric Cooperative

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

Raft River Rural Electric Co-op, a non-profit consumer-owned electric cooperative, safely delivers reliable electricity to more than 5,000 residential and commercial services in Idaho, Utah, and Nevada. Raft River Rural Electric Co-op's distribution system consists of over 2,340 miles of line.

As a cooperative, Raft River Electric is owned by the members it serves. Being a non-profit business, the cooperative's goal is to offer its members dependable electric service at the lowest possible cost.

Harney Electric Cooperative

<https://hec.coop/>

Harney Electric Cooperative (HEC), headquartered in Hines, Oregon, with a district office in Orovada, Nevada and a satellite office in Fields, Oregon is an electric transmission and distribution cooperative that serves over 20,000 square miles in southeast Oregon and northern Nevada. The coop was founded in 1954 to provide power to rural farmers and ranchers in the region and now serves approximately 4,000 meters with 400 miles of transmission line and over 2,600 miles of distribution lines spanning across Harney, Malheur, Deschutes, Crook, Humboldt and Lake counties.

HEC is a consumer-owned cooperative. Its policies are established by a seven-person Board of Directors - each board member is a bill-paying, residential member elected by fellow members.

Additional utilities and their rates can be found here - <https://findenergy.com/nv/>

Further potential contacts

Elevation

Solar energy company
Paradise, Nevada
+1 866 634 5291
poweredbyelevation.com

Bombard Renewable Energy

Las Vegas, NV
+1 702 263 3570
Bombardre.com

Universal Solar Direct

Las Vegas, NV
+1 702 978 7338
Universalsolardirect.com

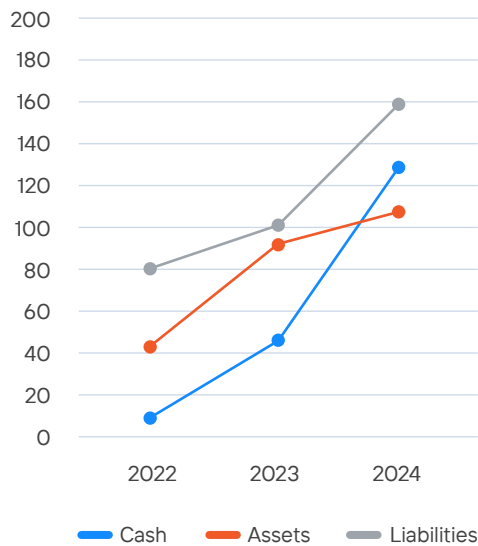
Sol-Up

Las Vegas, NV
+1 702 586 9800
Solup.com

Robco Electric

Las Vegas, NV
+1 702 614 4900
www.robcoelectriclv.com

Financials



Balance Sheet

Company name, iLamp Nevada

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		

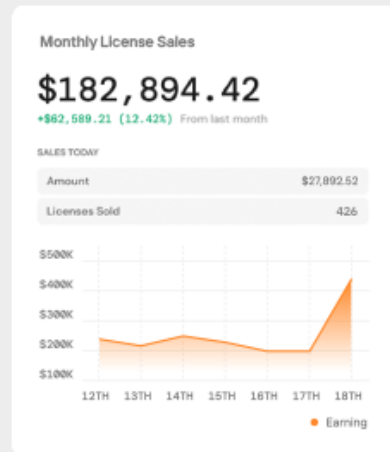
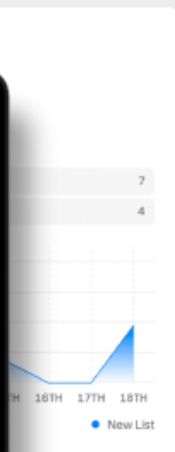
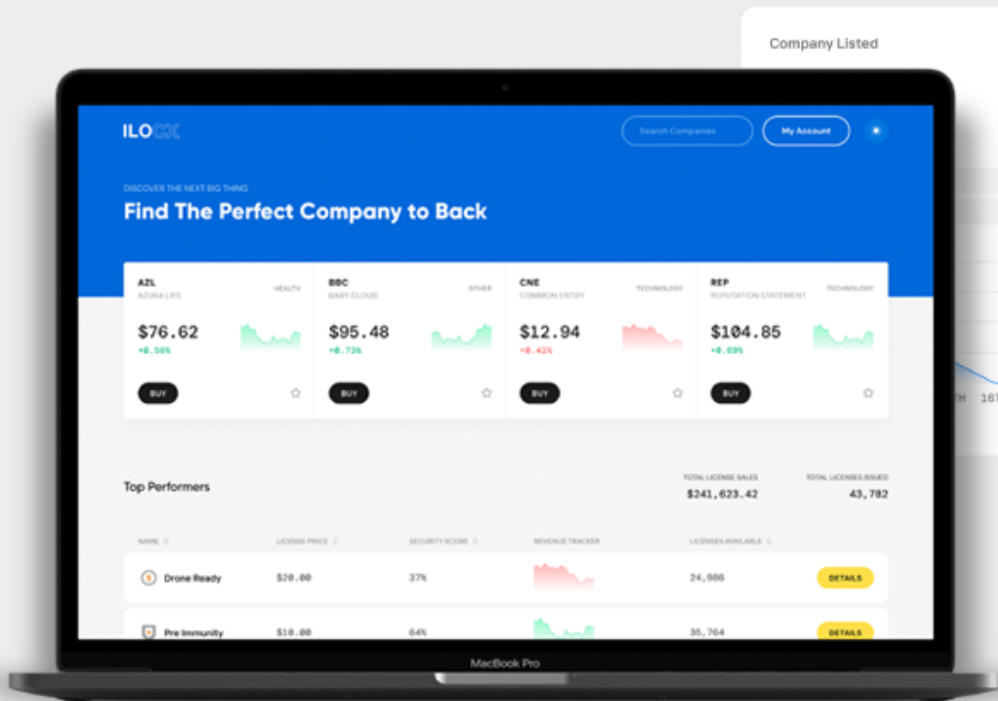
Total fixed assets	3,450	2,703,450
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Owner's Equity

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.



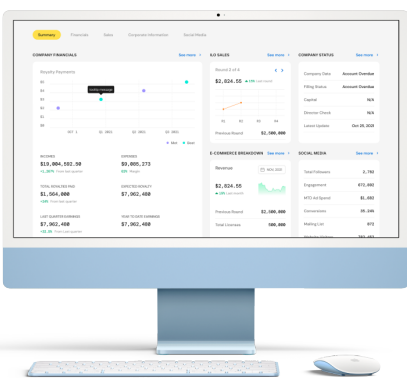
BUILD A TEAM

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.

100+
Total companies listed

Millions
Total licenses issued

10X
Returns already booked