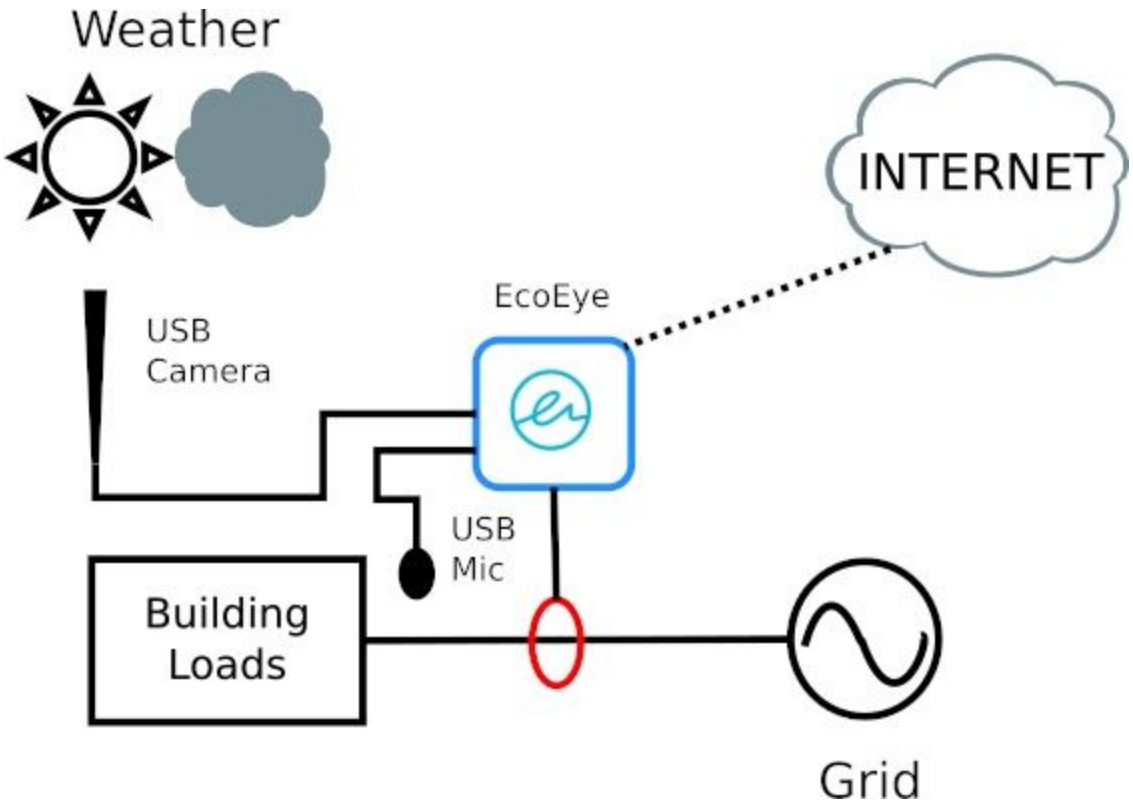
**EcoEye Technical Assistance Request:**

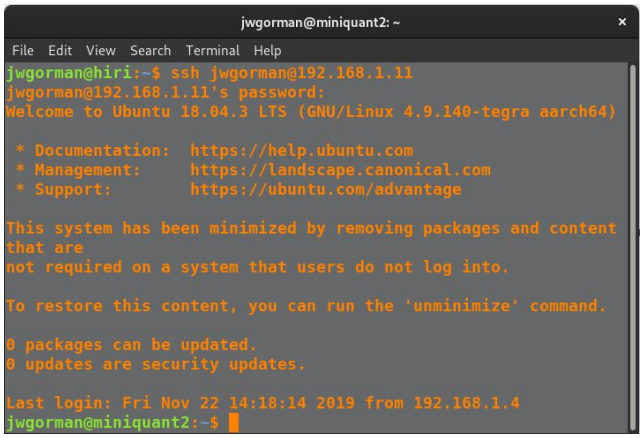
EcoEye is a miniature, low cost network appliance that sits in a building and predicts the energy generation and energy consumption of the building it is in, and shares that data on the internet via an smartphone app, web dashboard and RESTful API. It will allow solar asset owners to gauge the performance of their PV systems, and ordinary electricity consumers an understanding of their current and future energy usage and how solar could lower that cost.

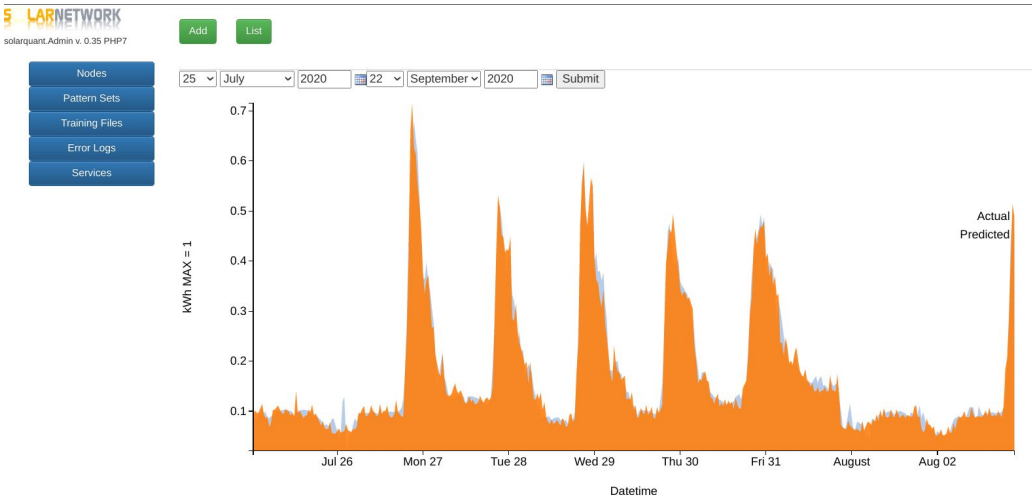
EcoEye uses machine learning to process real-time sky images, sound levels from building occupancy, insolation and weather data to determine energy use and generation. Local teams of EcoEye owners can form to create energy forecasts and even sell their energy forecasts to local DER aggregators.




**Prototype:**

We would like to speak with machine learning exports fluent in the most advanced open-source machine learning platforms such as TensorFlow, Caffe, PyTorch, emergent (Go) that could run on nVidia CUDA architecture.  We would like to know the types of models such as LSTM that could help us deliver accurate results based on the power of the lower cost machine we intend to use. We would like to know if the use of larger GPU clusters available to national labs and universities could help serve as a “development” resource whereas our unit will be effective the “runtime” version result of that study.


jwgorman@miniquant2: ~
File Edit View Search Terminal Help
jwgorman@hiri:~$ ssh jwgorman@192.168.1.11
jwgorman@192.168.1.11's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.9.140-tegra aarch64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
This system has been minimized by removing packages and content that are
not required on a system that users do not log into.
To restore this content, you can run the 'unminimize' command.
0 packages can be updated.
0 updates are security updates.
Last login: Fri Nov 22 14:18:14 2019 from 192.168.1.4
jwgorman@miniquant2:~$


LARNETWORK
solarquant.Admin v. 0.35 PHP7
Add
List
Nodes
Pattern Sets
Training Files
Error Logs
Services
25 July 2020 22 September 2020 Submit
0.7
0.6
0.5
0.4
0.3
0.2
0.1
kWh MAX = 1
Actual
Predicted
Jul 26
Mon 27
Tue 28
Wed 29
Thu 30
Fri 31
August
Aug 02
Datetime