Peer-to-Peer Energy Trading

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***Abstract—In this paper, the problem of … is studied using a …. In this game, on the one hand, the smart grid, which acts as a leader, needs to decide on its price so as to optimize its revenue while en- suring the …. On the other hand,…. Case Studies are proposed…***

# Introduction

State of the Art & Organization of the Paper; don’t put all the info in the intro, keep it in the background. Add an abstract that crystalizes what the paper is about (5-7 lines).

# Background

With the increasing connection of renewable energy sources, traditional energy consumers are becoming *prosumers*, who can both consume and generate energy (Luo Y,2014). The trends consist of extensive growth in small-scale distributed energy resources, which encompass behind-the-meter generation, energy storage, inverters, electric vehicles, and controllable loads such as water heaters and HVAC systems (Tushar,2020). Renewable energy adoption is accelerated by trends in climate change. The aging of the North American electric grid has also forced innovations in how energy is generated, distributed, and consumed. The growth of the metering side of the distribution is an example as it evolved from *Automated Meter Reading* (AMR) *to Advanced Metering Infrastructure* (AMI) the provides bi-directional communication to the meter with smart sensors and sophisticated distributed control technology, allowing utilities to perform grid control and management (Uribe-Pérez, 2016). Continuing the trends for smart distributed systems that provide added reliability and autonomy to users this paper researches the topics around distributed generation and peer to peer energy markets that can facilitate new forms of energy management.



1. Growth of Clean-Tech in the Energy Sector has reduced and will continue to reduce our carbon foot print. These technologies are leveraging resources management, government regulations and demand management to achieve these results. (Source: California Air Resources Board [CARB])

Renewable energy sources such as wind, and solar are dependent on environmental conditions to generate energy. The intermittent nature of production makes it difficult to sustain a constant load with renewable energy alone. Energy storage systems have emerged to assist the adoption of renewables but has yet to penetrate at the residential level in a meaningful way. The dependency on the bulk electric grid as a stable source of generation in times of need is still a necessity for most residential consumers who are subsidizing the energy usage with renewables. If prosumers and consumers are connected on a physical layer through local distribution and it can be islanded off, then there is potential for trading energy.

A virtual ledger can be implemented where payment is provided to prosumers when they meet the demand of consumers. A profitable incentive can be provided to prosumers to generate more energy when demand is higher and even discourage consumers to reduce load by increasing the cost of energy usage. Prosumers that have surplus electricity can curtail it, store it with energy storage devices, export it back to the power grid, or sell it to other energy consumers. These capabilities of the prosumer can encourage micro-grid markets that self-balance the net load of the community. The traditional energy management technique is a centralized architecture where the intermediary manages all the power generators on a microgrid. The energy management is set in advance, so the flexibility and scalability of the system is poor. All the data is stored centrally so security risk of information is high. (Dimeas, A.L ,2005).

A Peer-to-Peer (P2P) energy management architecture is proposed, so that management is decentralized across the participants on the network. Information is transmitted across the network in a democratized fashion so all nodes on the network can achieve a consensus on new information and create an autonomous management system. (Pei, W.,2010) P2P management has a plug-and-play advantage which is more suitable for renewable energy microgrids (Zhao, C.2018).

# Design

## Prosumer

A prosumer can produce energy, *P1*, by conditioning it and sending it to the grid, *M1* and consuming *C1* energy from the grid when production doesn’t fully cover the load of the home.

A picture containing text

Description automatically generated

1. A prosumer configuration with solar PV

An AMI meter is connected to the homes load and measured by the utility at *M1* . An inverter is and emergency isolation switch is connected to the renewable energy sources behind the meter. The excess energy flow into the grid when it is greater than the load of the home. The utility grade meter then measures the reverse flow as net energy of the prosumer. A typical connection to measure flow independently requires expensive and time-consuming modifications to the wiring behind the meter. A novel proposal is to utilize the existing AMI form factor and implement a plug-n-play solution with a secondary unregulated meter in-between the AMI meter and the meter-can housing.

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wCkAKkArgCyALcAvADBAMYAywDQANUA2wDgAOUA6wDwAPYA+wEBAQcBDQETARkBHwElASsBMgE4AT4BRQFMAVIBWQFgAWcBbgF1AXwBgwGLAZIBmgGhAakBsQG5AcEByQHRAdkB4QHpAfIB+gIDAgwCFAIdAiYCLwI4AkECSwJUAl0CZwJxAnoChAKOApgCogKsArYCwQLLAtUC4ALrAvUDAAMLAxYDIQMtAzgDQwNPA1oDZgNyA34DigOWA6IDrgO6A8cD0wPgA+wD+QQGBBMEIAQtBDsESARVBGMEcQR+BIwEmgSoBLYExATTBOEE8AT+BQ0FHAUrBToFSQVYBWcFdwWGBZYFpgW1BcUF1QXlBfYGBgYWBicGNwZIBlkGagZ7BowGnQavBsAG0QbjBvUHBwcZBysHPQdPB2EHdAeGB5kHrAe/B9IH5Qf4CAsIHwgyCEYIWghuCIIIlgiqCL4I0gjnCPsJEAklCToJTwlkCXkJjwmkCboJzwnlCfsKEQonCj0KVApqCoEKmAquCsUK3ArzCwsLIgs5C1ELaQuAC5gLsAvIC+EL+QwSDCoMQwxcDHUMjgynDMAM2QzzDQ0NJg1ADVoNdA2ODakNww3eDfgOEw4uDkkOZA5/DpsOtg7SDu4PCQ8lD0EPXg96D5YPsw/PD+wQCRAmEEMQYRB+EJsQuRDXEPURExExEU8RbRGMEaoRyRHoEgcSJhJFEmQShBKjEsMS4xMDEyMTQxNjE4MTpBPFE+UUBhQnFEkUahSLFK0UzhTwFRIVNBVWFXgVmxW9FeAWAxYmFkkWbBaPFrIW1hb6Fx0XQRdlF4kXrhfSF/cYGxhAGGUYihivGNUY+hkgGUUZaxmRGbcZ3RoEGioaURp3Gp4axRrsGxQbOxtjG4obshvaHAIcKhxSHHscoxzMHPUdHh1HHXAdmR3DHeweFh5AHmoelB6+HukfEx8+H2kflB+/H+ogFSBBIGwgmCDEIPAhHCFIIXUhoSHOIfsiJyJVIoIiryLdIwojOCNmI5QjwiPwJB8kTSR8JKsk2iUJJTglaCWXJccl9yYnJlcmhya3JugnGCdJJ3onqyfcKA0oPyhxKKIo1CkGKTgpaymdKdAqAio1KmgqmyrPKwIrNitpK50r0SwFLDksbiyiLNctDC1BLXYtqy3hLhYuTC6CLrcu7i8kL1ovkS/HL/4wNTBsMKQw2zESMUoxgjG6MfIyKjJjMpsy1DMNM0YzfzO4M/E0KzRlNJ402DUTNU01hzXCNf02NzZyNq426TckN2A3nDfXOBQ4UDiMOMg5BTlCOX85vDn5OjY6dDqyOu87LTtrO6o76DwnPGU8pDzjPSI9YT2hPeA+ID5gPqA+4D8hP2E/oj/iQCNAZECmQOdBKUFqQaxB7kIwQnJCtUL3QzpDfUPARANER0SKRM5FEkVVRZpF3kYiRmdGq0bwRzVHe0fASAVIS0iRSNdJHUljSalJ8Eo3Sn1KxEsMS1NLmkviTCpMcky6TQJNSk2TTdxOJU5uTrdPAE9JT5NP3VAnUHFQu1EGUVBRm1HmUjFSfFLHUxNTX1OqU/ZUQlSPVNtVKFV1VcJWD1ZcVqlW91dEV5JX4FgvWH1Yy1kaWWlZuFoHWlZaplr1W0VblVvlXDVchlzWXSddeF3JXhpebF69Xw9fYV+zYAVgV2CqYPxhT2GiYfViSWKcYvBjQ2OXY+tkQGSUZOllPWWSZedmPWaSZuhnPWeTZ+loP2iWaOxpQ2maafFqSGqfavdrT2una/9sV2yvbQhtYG25bhJua27Ebx5veG/RcCtwhnDgcTpxlXHwcktypnMBc11zuHQUdHB0zHUodYV14XY+dpt2+HdWd7N4EXhueMx5KnmJeed6RnqlewR7Y3vCfCF8gXzhfUF9oX4BfmJ+wn8jf4R/5YBHgKiBCoFrgc2CMIKSgvSDV4O6hB2EgITjhUeFq4YOhnKG14c7h5+IBIhpiM6JM4mZif6KZIrKizCLlov8jGOMyo0xjZiN/45mjs6PNo+ekAaQbpDWkT+RqJIRknqS45NNk7aUIJSKlPSVX5XJljSWn5cKl3WX4JhMmLiZJJmQmfyaaJrVm0Kbr5wcnImc951kndKeQJ6unx2fi5/6oGmg2KFHobaiJqKWowajdqPmpFakx6U4pammGqaLpv2nbqfgqFKoxKk3qamqHKqPqwKrdavprFys0K1ErbiuLa6hrxavi7AAsHWw6rFgsdayS7LCszizrrQltJy1E7WKtgG2ebbwt2i34LhZuNG5SrnCuju6tbsuu6e8IbybvRW9j74KvoS+/796v/XAcMDswWfB48JfwtvDWMPUxFHEzsVLxcjGRsbDx0HHv8g9yLzJOsm5yjjKt8s2y7bMNcy1zTXNtc42zrbPN8+40DnQutE80b7SP9LB00TTxtRJ1MvVTtXR1lXW2Ndc1+DYZNjo2WzZ8dp22vvbgNwF3IrdEN2W3hzeot8p36/gNuC94UThzOJT4tvjY+Pr5HPk/OWE5g3mlucf56noMui86Ubp0Opb6uXrcOv77IbtEe2c7ijutO9A78zwWPDl8XLx//KM8xnzp/Q09ML1UPXe9m32+/eK+Bn4qPk4+cf6V/rn+3f8B/yY/Sn9uv5L/tz/bf//)

1. A typical AMI meter with a proposed P2P meter interface that would interface with pass through connectors. The P2P meter contains LTE and current sensing capabilities.

Diagram

Description automatically generated

1. A typical residence with renewable power sources is connected to the sources through an inverter that converts DC to AC . The generation simulatneously feeds the load and the grid at a point of interconnection netting out the final usage of the home as positive or negative flow as measured by an electrical meter.

Typical prosumers are residential homes with different distributed generation (DG) options such as wind, solar and an energy storage systems. This paper considers prosumers with only renewable energy technologies such as photo-voltaic (PV) solar panels. Additional studies would include considering PV plus storage or other combinations of DG. With PV an inverter is used to convert the direct-current (DC) generated from the PV to the alternating current (AC) required by typical house loads and the local bulk electric grid. Solar energy is an intermittent resource that is dependent on local weather and seasonality. The reduction in costs for these systems has increased the adoption rate in recent years. PV technology is simple in structure, stable in performance and does not produce any pollutants in the process of power generation; therefore, it is very suitable as a renewable power source in microgrids. It converts solar irradiation to electric, and the photoelectric effect electric current is:

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Where *q* is the electron charge, *V* is the cell voltage, and *Rs* and *Rsh* are resistance connected in series and shunt resistance, respectively. *K, T* and *n* are Boltzmann constant, operation temperature, and ideality factor of diode, respectively. Light-generated electric current is shown as and saturation electric current is shown as  .

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Where *G, Gref,* and *Tref* are solar irradiation, solar irradiation at standard condition, and reference temperature, respectively. The reverse saturation electric current, is expressed as:

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Where *Voc* and *Ki* are open circuit voltage and short circuit current coefficient, respectively. The power of the PV model is obtained by the multiplied model current and voltage, and expressed as:

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The consideration of losses in converting the PV energy to AC by the inverter is not considered as well as other minor losses due to system constraints. The ideal generation of the PV system can be modeled to understand how a typical prosumer would respond to measured irradiance in a location over time. If a series of prosumers interacted with consumers in a network the prosumers would be able to provide excess energy at times that the consumers would need it.

## Prosumer Networks

The network of prosumers and consumers could be isolated behind a substation, allowing for micro-grid isolation. The need for micro-grid isolation is optional because the network can still act as a virtual ledger managed as an unregulated service by the utility during normal service operation.

Logo

Description automatically generated with medium confidence

1. Network of Prosumers and Consumers feeding and recieving directly from a substation managed by a Distribution Service Operator

A service that allows for the unregulated real-time trading of energy between prosumers and consumers can be considered a P2P market. The distribution service operator (DSO) would manage the infrastructure in both cases mentioned above. The prosumer network is represented by the set of prosumers, where N is the total number of prosumers in the network.

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In a P2P market the prosumers excess energy is paid to the prosumer at a market price. The excess energy is referred to as net energy and it is the difference between the prosumer’s load and the prosumer’s generation. An individual prosumers net energy at some time , is calculated by taking the difference between load and generation of that prosumer and clamping the value to be above 0.

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## Prosumer Payments

To pay a prosumer for the net energy, the net energy must be multiplied at some time dependent retail price, . The retail price is dependent on time because it is a value that changes based on demand and costs to distribute energy. The retail price would also need to be in some monetary denomination per kWh.

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An individual prosumers payment can also be dependent on the demand so the retail price, . Can be expanded to include the terms for the total generation of the network, and the total consumption of the network, .

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Since excess energy is not valuable when there isn’t anyone to consume it, payment to the prosumer should be regulated so that the payment is based on the group contribution of energy so that it is balanced with the demand. To balance the supply and demand amongst a network of prosumers we want to compensate generation and load on the network at the correct times as proposed by the NRG-X-change mechanism (Vottem, 2019). A prosumers payment function is a modification of the maximum retail price at that time awarded for the energy. The individual’s contribution to in comparison to the need of that contribution is considered. The final price for the energy is then attributed to the prosumer at that time.

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Where the , is the maximum payment for the prosumer’s energy and where , is a constant that is used to tweak the distribution of the payment. A recursive function is used to home in on what an accurate constant should be for the payment function given the scale of the network. As the disparity between the single prosumer and total load and generation could be the scale factor should be adjusted. Implementing a sensitivity analysis of the scaling factor , with respect to the net energy squared reveals that the scaling factor should be greater than or equal to the net energy squared, but the small enough to not become undefined.

A consumer payment function is considered in a similar way. The prosumers or consumers that require to draw energy from the network would be charged according to the overall demand. The price of energy increased based on the demand forcing the behavior to change for consumers who do not wish to pay for higher prices at the demanded time.

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Where is the maximum cost of energy delivered by the DSO when the energy supply by the prosumers is low. When the production matches consumption the substation will charge per kWh.

# Implementation

## Software Architecture

We propose a novel approach to leveraging current IoT protocols and technologies that exist on the market. A microservice based architecture could provide resiliency and robustness to the design allowing everyone in the community to provide updates and oversights to the stability of the platform. Software Architecture of Open-Elecbay: A proposal for an architecture that handles streaming IoT data sets from multiple clients requesting independent bids/offers on the market. The architecture utilizes MQTT and existing IOT protocol to facilitate a publish/subscribe style of communication. The transaction of the system is brokered and recorded through various microservices. The design can be scaled and distributed across agents.

The architecture can be described as a monitoring stack and a management stack with a transactional layer.

### Monitoring Stack:

Comprised of opensource software that reads in messages through “Filebeat” an agent that can receive MQTT messages from a MQTT broker on the transactional layer and relay it to “Elastic” an opensource unstructured database. The final component is “Kibana” a dashboard visualization application that could provide event level details of each event for monitoring.

### Management Stack:

Is used to implement management roles such as enrollment, configurations, and adjustment. It can also host a public website as a portal for participants to look at what the balance is and adjust account settings. This layer relays all changes to the MQTT broker in an asynchronous manner to the monitoring stack. The most important component is the “Broker”, a custom agent that performs the energy balancing and ancillary energy management services between all the participants of the network.

### Transactional layer:

A layer that facilitates communications between participants and the management and monitoring stacks. It is made of MQTT broker that is opensource by Mosquitto.org, the exchange information can be asynchronous and passed rapidly using “publish” and “subscribe” transactional messages between the participants and the stacks. This methodology allows for distributed communications.

Graphical user interface

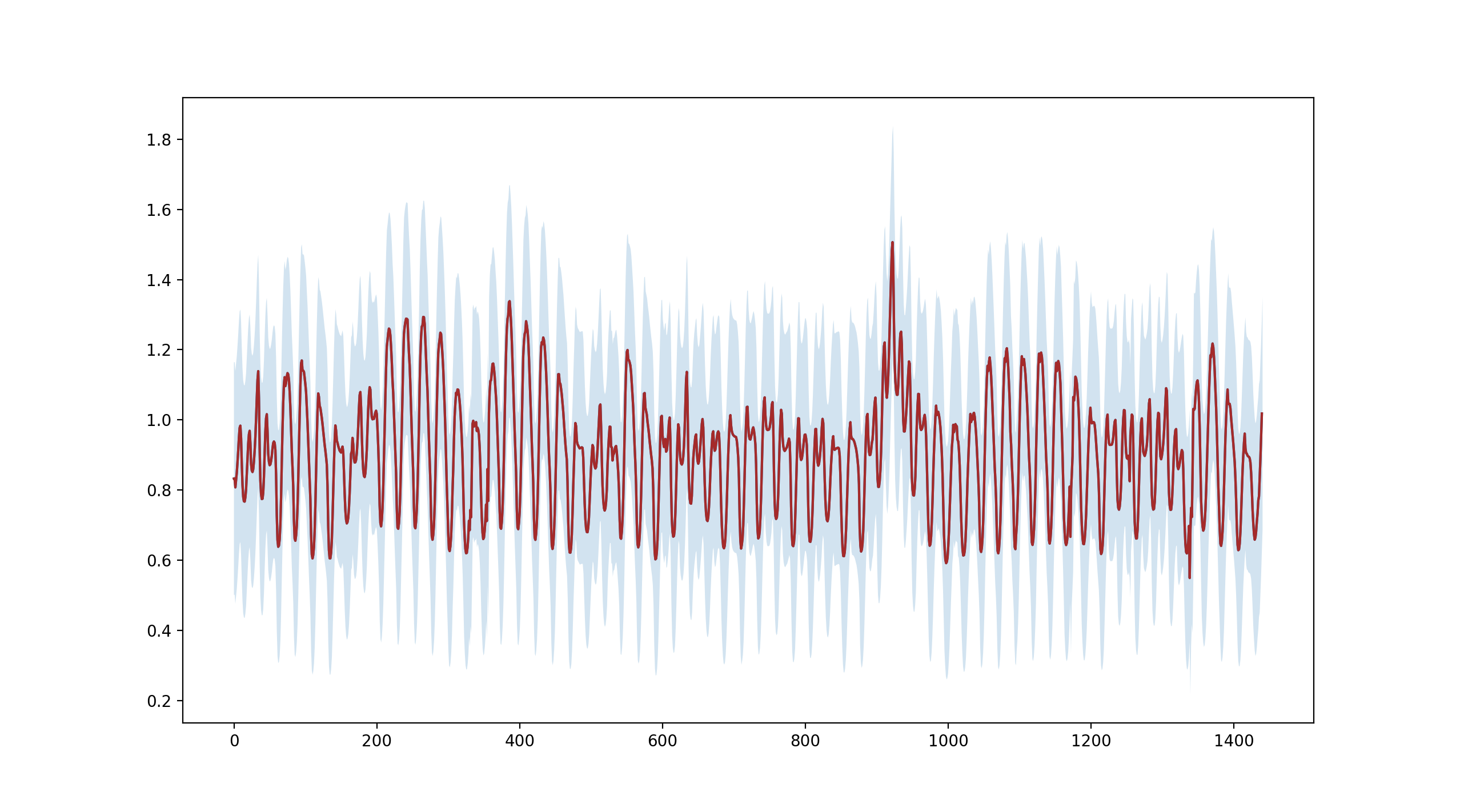
Description automatically generated

1. Open-Elecbay software architecture diagram

## Synthesizing Data

The data used in the simulation is provided by the U.S. Energy Information Administration ([www.eia.gov](http://www.eia.gov)) [2] API (application programmable interface). The dataset is filtered for the Florida Power and Light service territory. The two datasets requested are for load demand and solar generation. The prosumers load demand must be derived statistically since an individual’s load is not made available through public datasets. The average use of a single prosumer can be inferred at a monthly time range but not on a daily or hourly time. The average monthly estimate for a prosumer in the FPL territory; 1,110 kWh/month [2]. The hourly and monthly load demand is publicly available data, but it is on an aggregate.

To be able to use this data normalize the aggregate usage over a time window then multiply the estimated mean usage by each of the normalized samples over the time window. The result would be a load demand curve that estimates a typical prosumer load demand about the average load. The 1100kWh per month was divided by 730 hours in a month to arrive at a 1.5kW load at each hourly sample. The normalized curve was mapped against the load with two standard deviations as an error. Note that the figure below shows the values for two months, the start of January 2020 and end of February 2020.



1. Hourly load demand (kWh) about an average prosumers load of (1100kWh/730h) between Jan. 2020 and Feb. 2020 with an error band of 2 standard deviations.

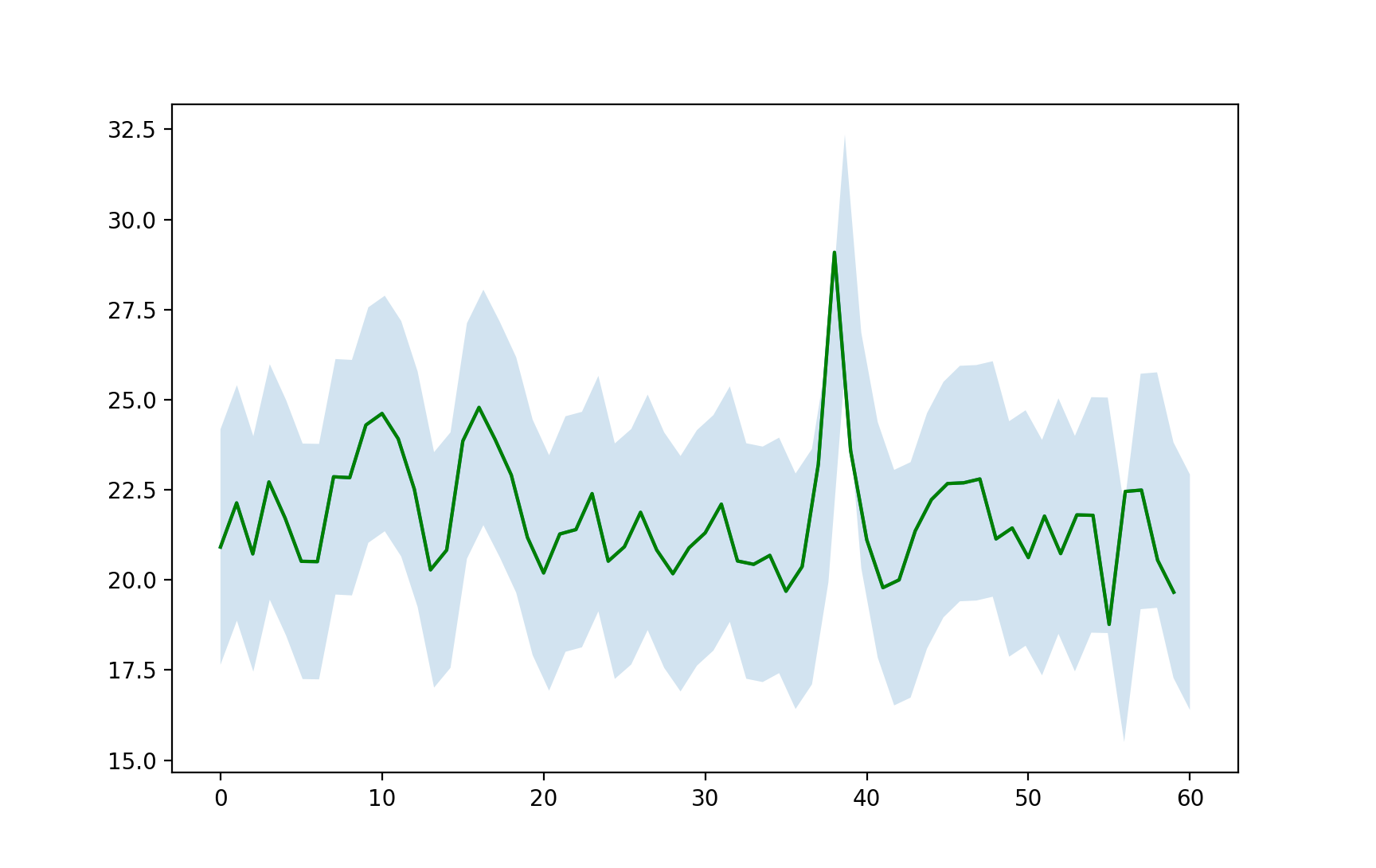
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The time series is then segmented into periods so that they can be averaged into daily samples. The daily aggregate samples are then normalized so that it can create a curve that is used for the correlation with the typical load, .

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Finally normalize the daily load by the max load to get the normalized load .

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1. Daily load demand of a typical consumer that draws an average of 1100kWh a month correlated to the normalized curve of overall demand between January 2020 and end of February 2020.

The approximation provides a starting point to model a prosumers daily consumption. The prosumers variance of consumption is considered as two standard deviations from the mean but can be adjusted in future research. The actual load demand of individual users can be utilized instead of this approximation into the model for better results. By creating a method to instantiate prosumer generation we can build a model with any numbers of possible prosumers that will provide statistically significant results when determining net-metering payoffs. A prosumer can be considered to have a normal distribution (Perrella,2021) within a given standard deviation over the mean defined in eq.4 as a prosumer, n belongs to several prosumers N, and the prosumer load at time interval , is .

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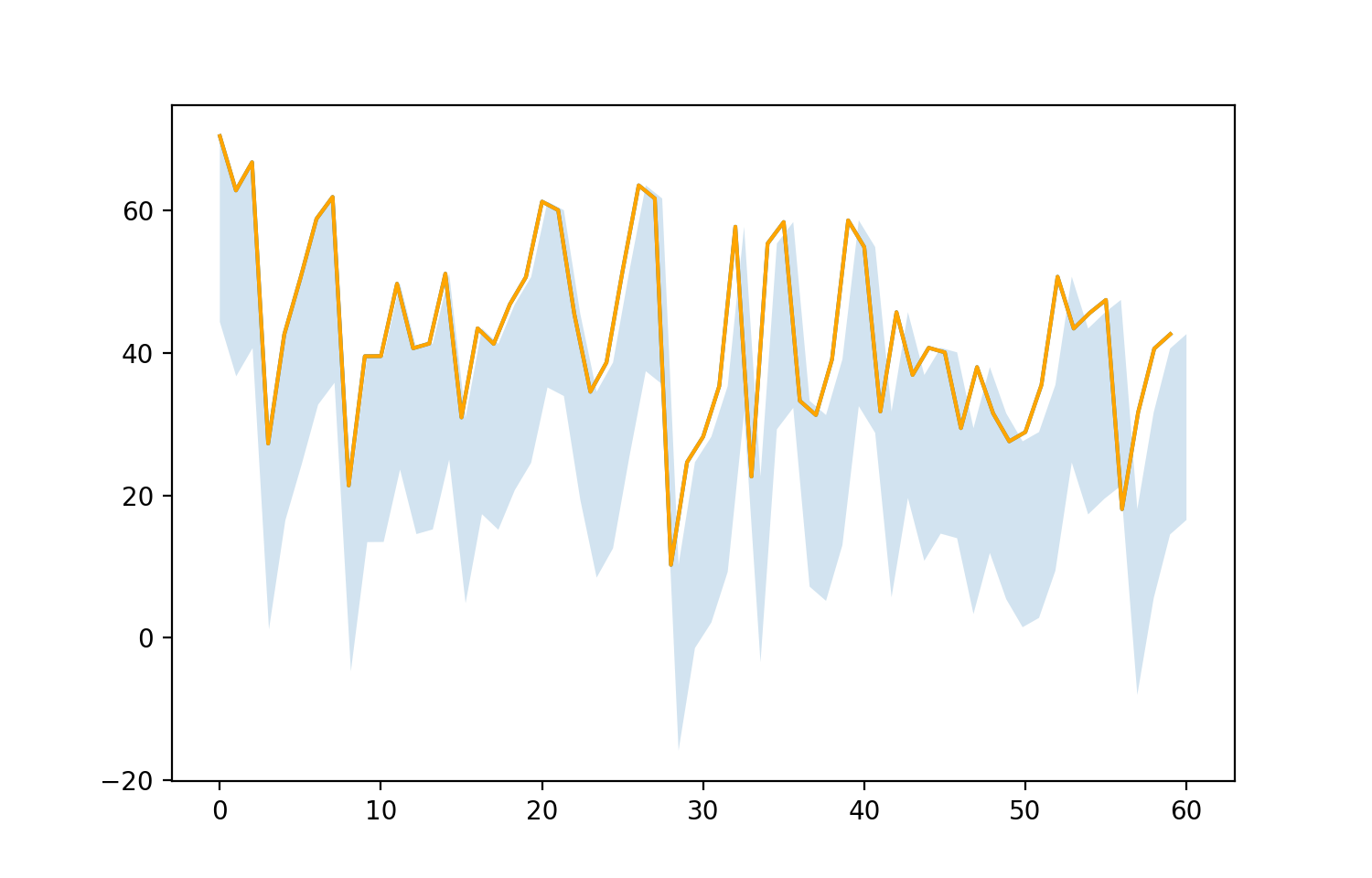
The prosumers must have some generation capability installed as well as a load profile. In this research we will assume PV is utilized by the prosumers, but this can be adjusted to be different types of generation with different driving renewable energy curves. The total solar generation of the FPL territory is an indicator of the potential capacity of a prosumers much smaller generation. The assumption is that the total correlation of solar generation on aggregate is proportional to the solar generation at the prosumer level. A Tier 1 system is going to have a limit of 10kW, so the generation is multiplied by the proportional generation at each hour by the normalized curve derived from FPL’s total solar generation.

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The time series is then segmented into periods so that they can be averaged into daily samples. The daily aggregate samples are then normalized so that it can create a curve that is used for the correlation with the typical generation, . Finally, the daily generation is normalized by the max generation to get the normalized generation .

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1. Daily generation of a Tier1 solar system installed on a a typical prosumer as a proportional correlation to the normalized curve of FPL’s overall generation from solar start of January to end of February, 2020.

The model for a prosumer’s generation will also be chosen from a normal distribution but will be constrained by the maximum allowed capacity .

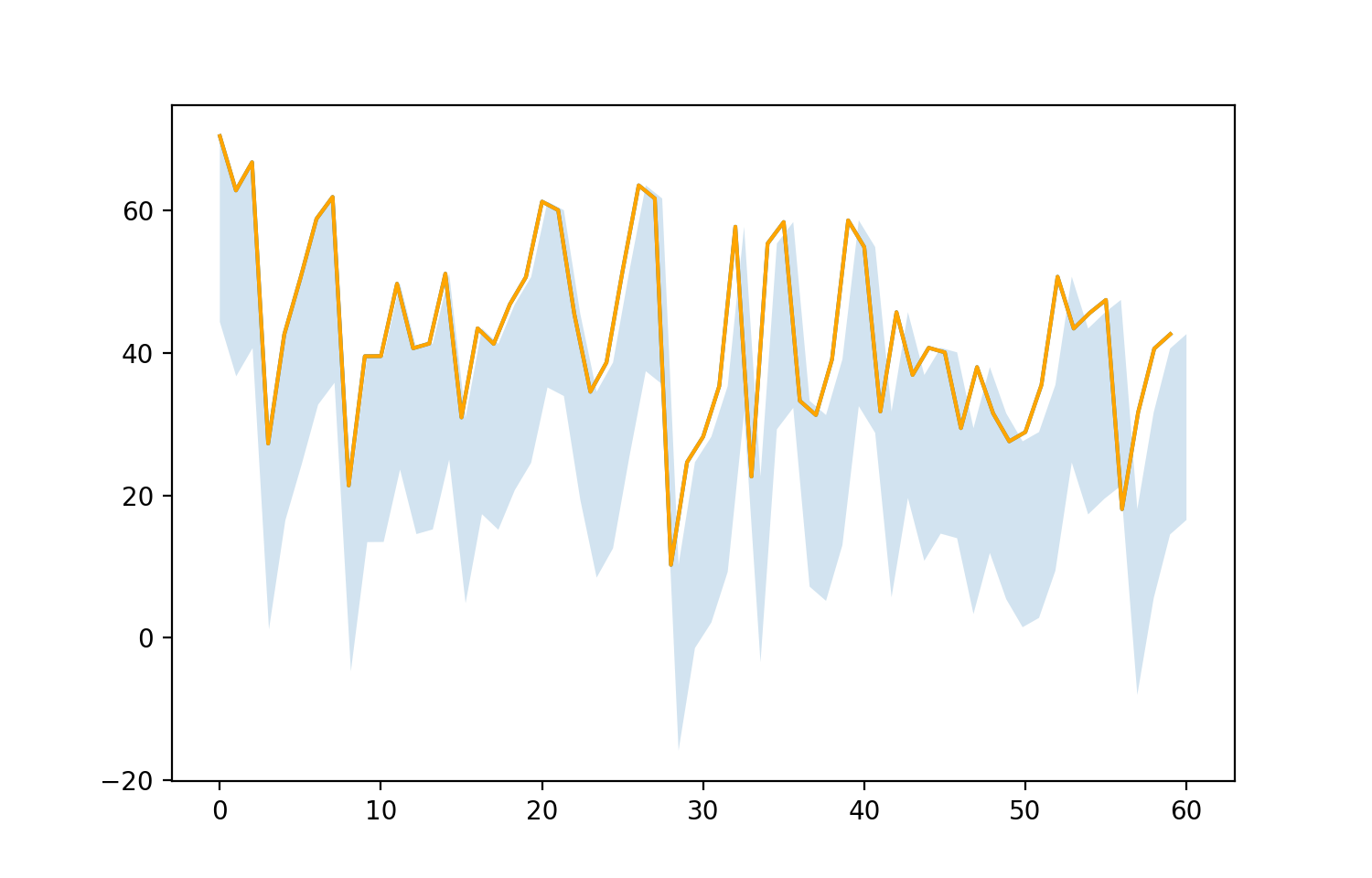
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The maximum capacity chosen is 10kW. An error of two standard deviations in the negative direction is considered here because we are limited by the 10kW constraint of a Tier 1 system as defined by FPL net-metering regulations.

# Results

MQTT communication breakdown. The messages were designed for asynchronous communication but using it in the application actually resulted in many dropped messages. The reliability of messages not processed is too great for this system. Adopting a more industrial based communication protocol would increase reliability.

Graphical user interface, application

Description automatically generated

1. Open-elecbay dashboard and transactions showing the particpants submit customer IDs and the corresponding kWh reading to the broker.

# Conclusion

* Future Works
  + What was not considered in this example
  + Whats possible
  + Things that are coming around the corner

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