# Open Energy Gateway User Documentation

## Connecting the Gateway to Wifi and the internet

### The first time the gateway starts up

* Ensure that the WiFi arial is connected.
* If no WiFi Credentials has been configured yet, the the following will happen.
* The Gatway will create a WiFi hotspot, also known as an WiFi Access Point.
* The name of the WiFi hotspot will be: **"Open-Energy-Gateway-AP"**
* Turn on the WiFi on your phone, tablet or laptop
* Look for the WiFi hotspot and connect to it.
* No password is required
* Once connected it should automatically open your browser and to the following IP address: **192.168.4.1.** If it does not automatically go to this IP address, then enter the IP address in you browser.
* On this IP address you should see the following screen:
  + Sdfsd
* Once connected the WiFi Hotspot created will no longer be available. The gateway will go from Access point mode to Station mode.
* Go to the WiFi settings of your phone
  + Connect to the same WiFi network as the gateway.

## Connecting the Gateway to your energy meter

* Connect the LAN cable between the meter and the gateway
* On the Mi550
  + Go into Setup
  + Go into System Parameter
  + Go into Communication Setup
  + Go into Ethernet
    - DHCP: Disable
    - Set the IP address to: 192.168.2.122
    - Set the Subnet Mask to: 255.255.255.0
    - Set the Gateway Address to: 192.168.2.1
    - Go back and save the settings
  + Go int Modbus-TCP
    - Make sure it is set to Enable
    - Set the port to 00502
    - Go back and save the settings
  + The Gateway light indicating connection to the meter should no light up.
    - If not the restart the Gateway
    - Wait for the Gateway to power up
    - Then restart the meter

## Connecting to the local webserver on the gateway

* On a PC
  + Download and install Advanced IP Scanner.
  + <https://www.advanced-ip-scanner.com/>
  + Scan the range of you local WiFi Network
  + Look for AmpX-Energy-Gateway.lan
    - Right click on it and copy the ip address.
    - Paste this IP address in your browser.
    - This should open up the local web page of the gateway and list live meter readings.
  + Wait 2 minutes for the initial values to appear
* On a android phone
  + Install a IP Scanner app such as WiFiman