Communicate with NetEco through an openAPI user

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This document describes the procedure about how to test the communication with NetEco through an openAPI user.

1. Create an OpenAPI User

Login as installer on Neteco and create an openAPI account:
Choose settings menu→users→fill the requested details→choose OpenAPI User→select the PV plant→ok
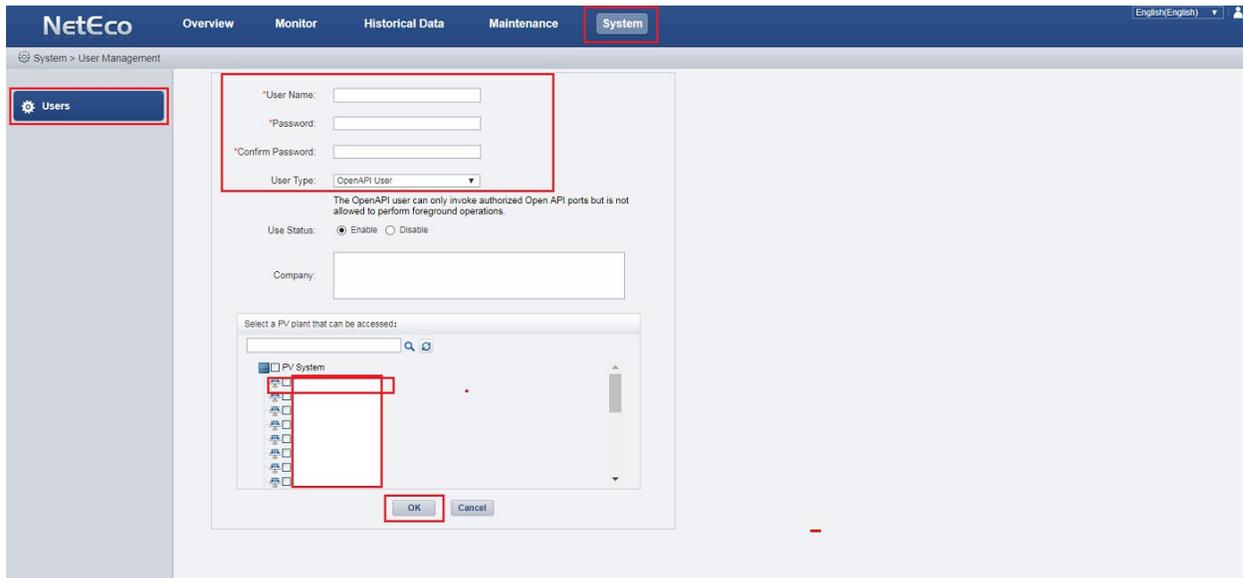
2. Check the communication protocol

Dashboard Web Server query data from NetEco through HTTPS protocol, Dashboard Web Server is Client, NetEco is Server.

| Source Device	Source IP Address	Source Port	Destination Device	Destination IP Address	Destination Port	Protocol	Port Description	Authentication Mode	Encryption Mode
Client	IP address of the client	Random port	NetEco server	IP address of the NetEco server	27200	HTTPS	Port for logging in to the NetEco server open interface in TLS encryption mode.	Username/password	TLS1.1&1.2

Check if the port 27200 is enable and if you have active on your computer the TLS1.1&1.2 and SSL.
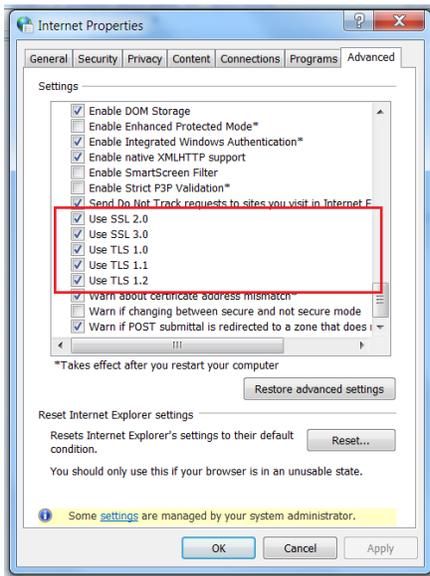
3. Install Postman on your computer

Download and install Postman and before start to interrogate Neteco with your openAPI user disable the SSL certificate verification form the Postman settings:
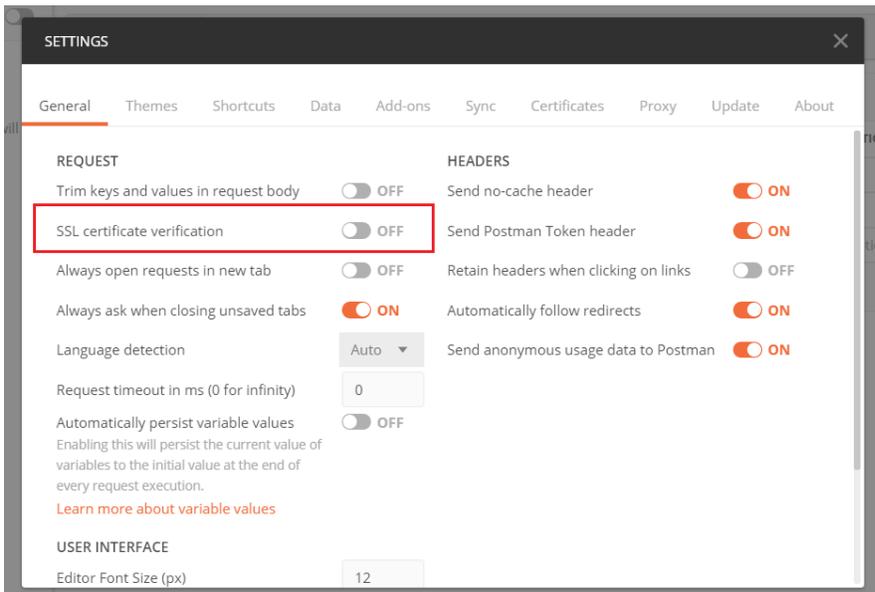
4. Login on Postman with openAPI user

Use your server IP to login and interrogate Neteco with your openAPI user.
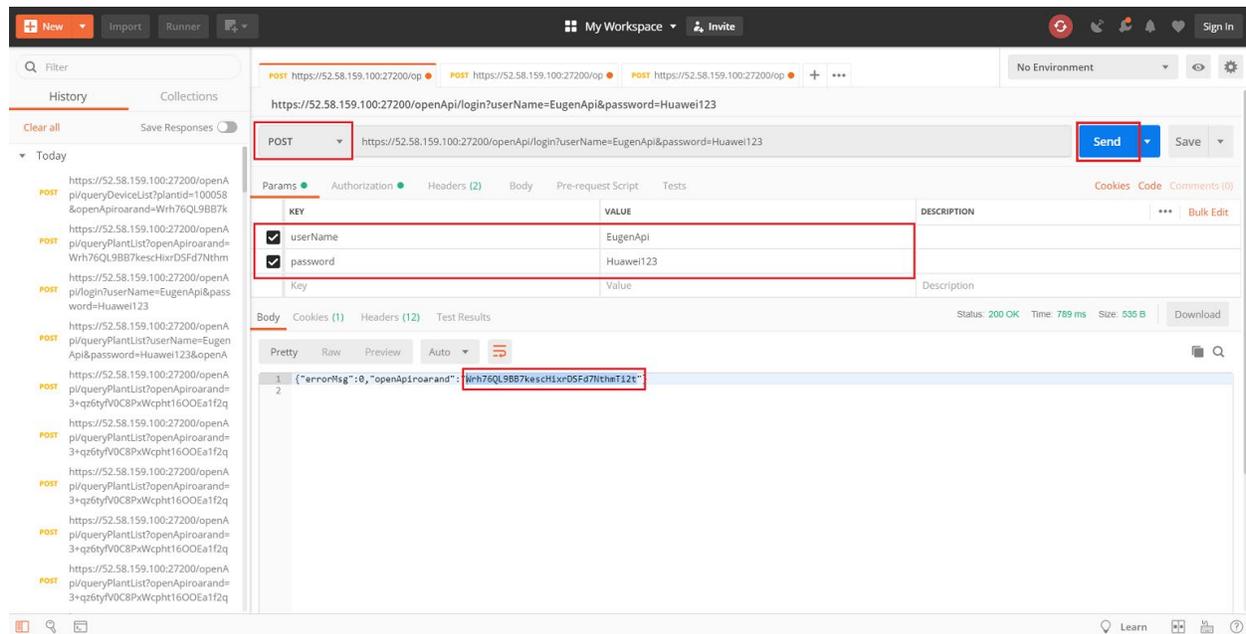Example: if the Neteco IP is 52.58.159.100 use the next link to login:
https://52.58.159.100:27200/openAPI/login

URL: https://ip:port/openApi/login
Request:
Method: POST
Parameter: username, password
Response: {"errorMsg":0,"openApiroarand":"e21bfb25-5637-49d3-8ec2-d6106cc0fc97"}
The key note with red will help you to interrogate the other parameters.

5. Query Plant List

URL: https://ip:port/openApi/queryPlantList
Request:
Method: POST
Parameter: openApiroarand
Response:
Example:
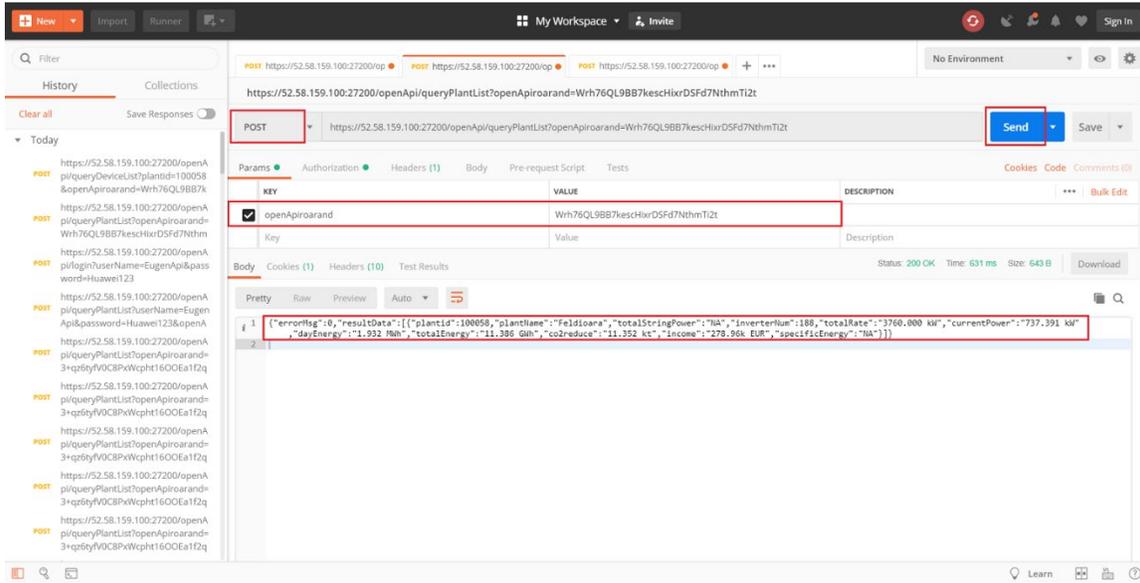
6. Query Device List

URL: https://ip:port/openApi/queryDeviceList
Request:
Method: POST
Parameter: plantid, openApiroarand
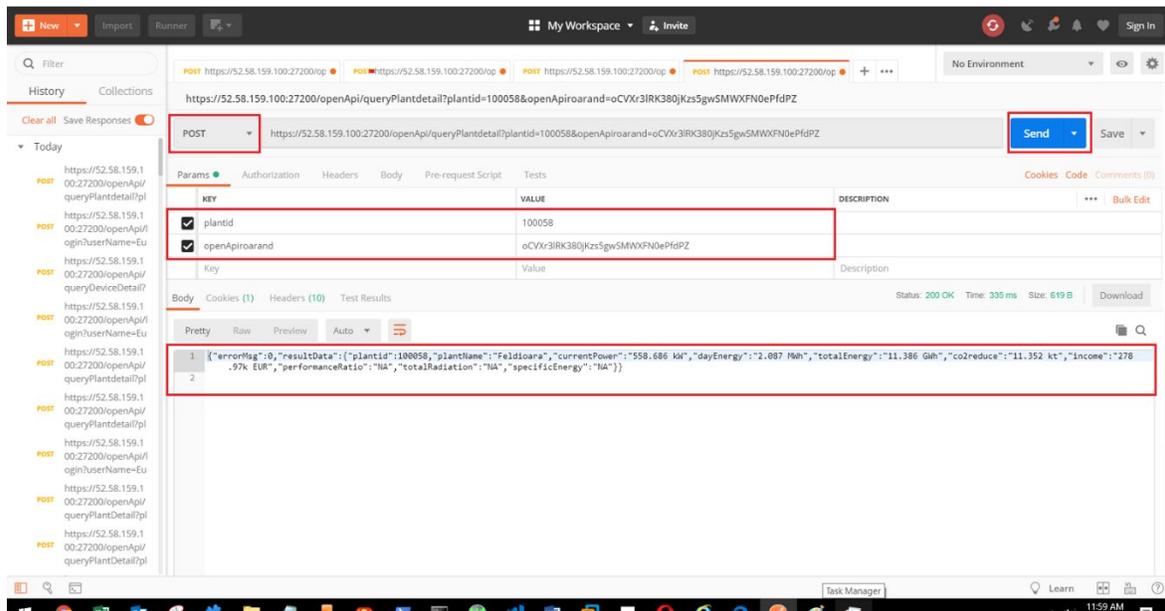Response:
Example:
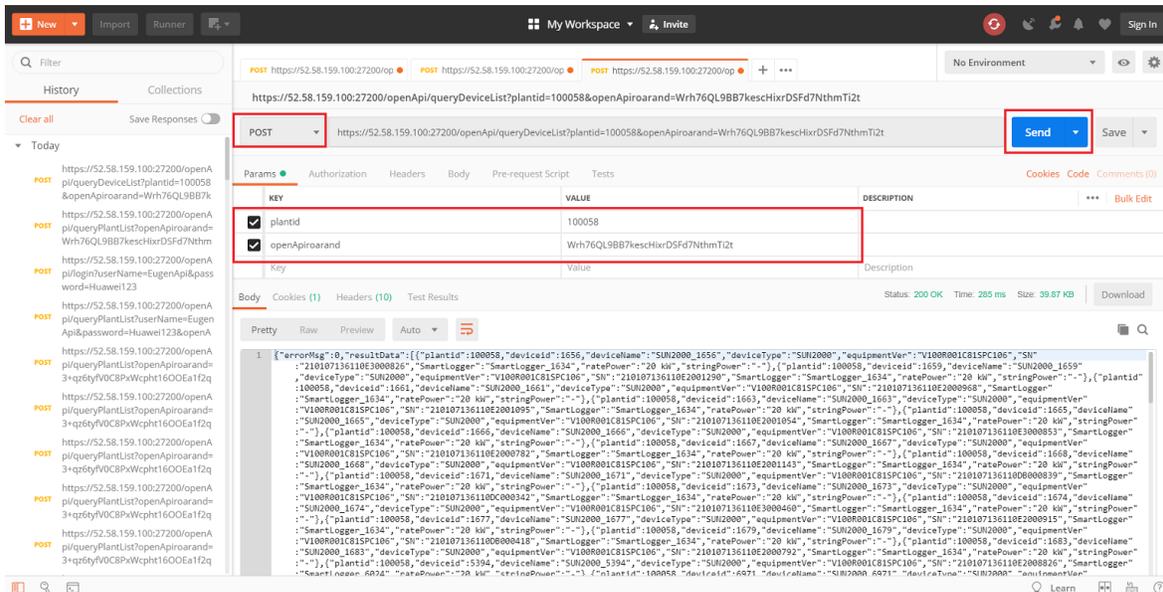
7. Query Plant Real Time Data

URL: https://ip:port/openApi/queryPlantdetail
Request:
Method: POST
Parameter: plantid, openApiroarand
Response:
Example:

8. Query Device Real Time data

URL: https://ip:port/openApi/queryDeviceDetail
Request:
Method: POST
Parameter: plantid, openApiroarand
Response:
Example:
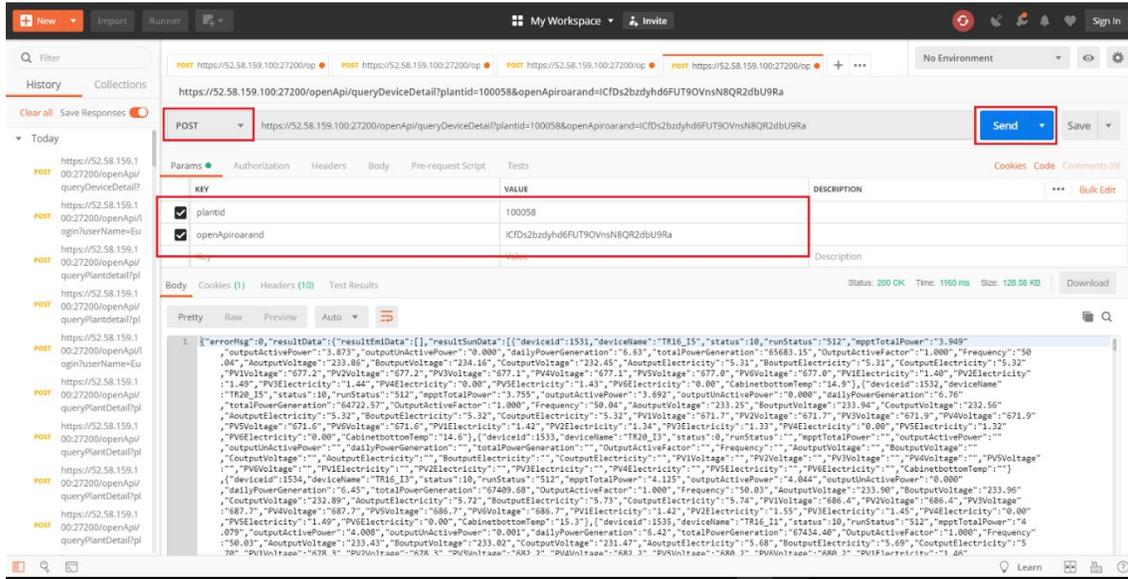
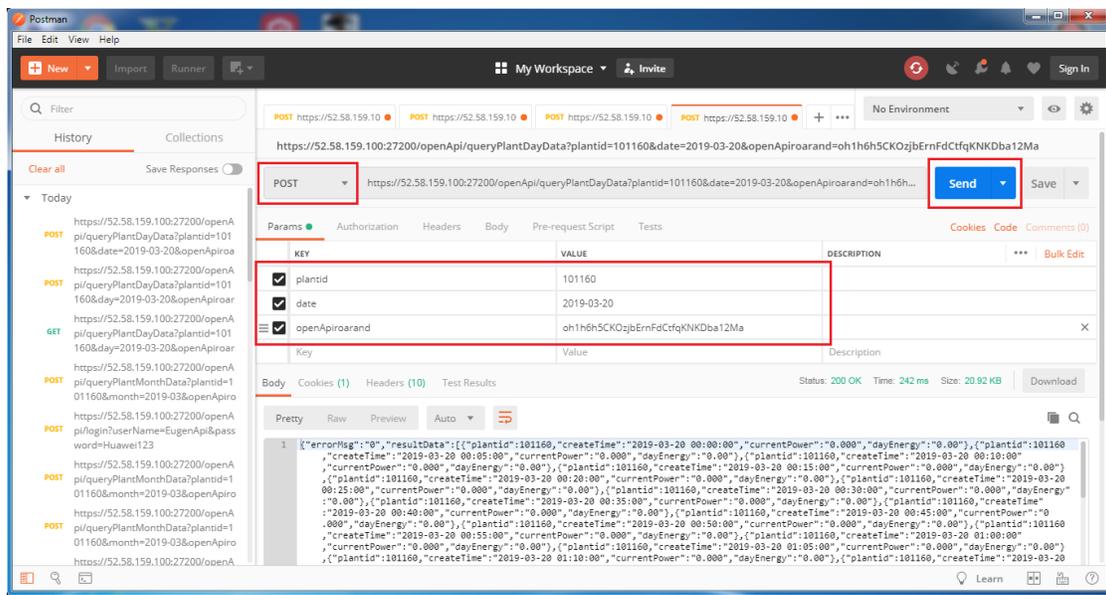## 9. Query Plant Day History Data

URL: https://ip:port/openApi/queryPlantDayData
Request:
Method: POST
Parameter: plantid, date(XXXX-XX-XX), openApiroarand
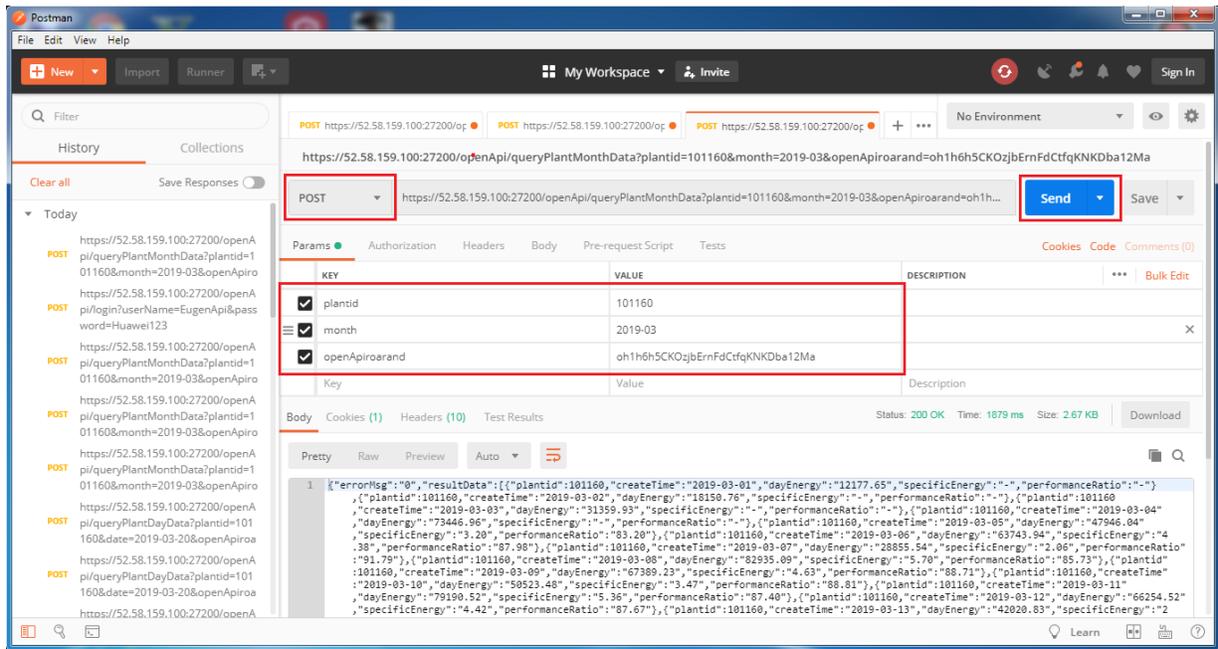Response:
Example:

10. Query Plant Month History Data

URL: https://ip:port/openApi/queryPlantMonthData
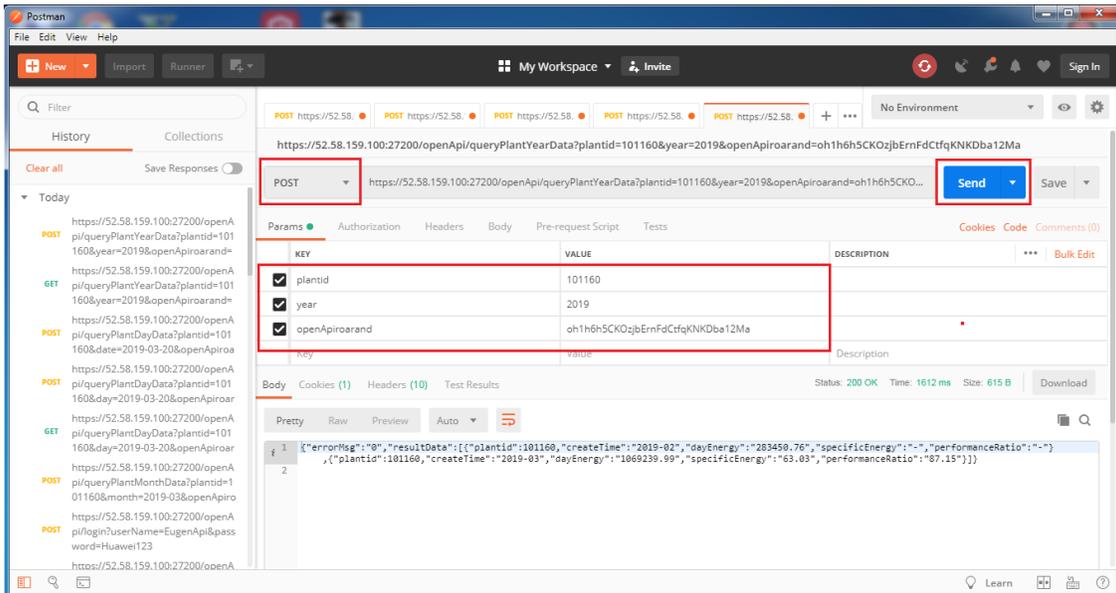Request:
Method: POST
Parameter: plantid, month(XXXX-XX), openApiroarand
Response:
Example:

11. Query Plant Year History Data

URL: https://ip:port/openApi/queryPlantYearData
Request:
Method: POST
Parameter: plantid, year(XXXX-XX), openApiroarand
Response:
Example:

12. Query Plant Total History Data

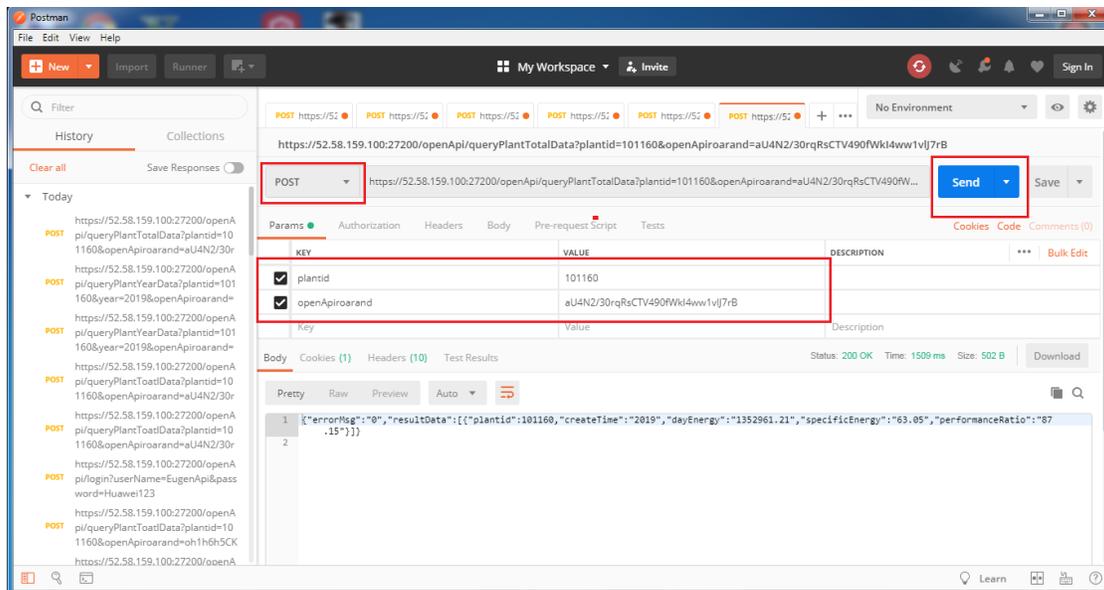URL: https://ip:port/openApi/queryPlantTotalData
Request:
Method: POST
Parameter: plantid, openApiroarand
Response:
Example:

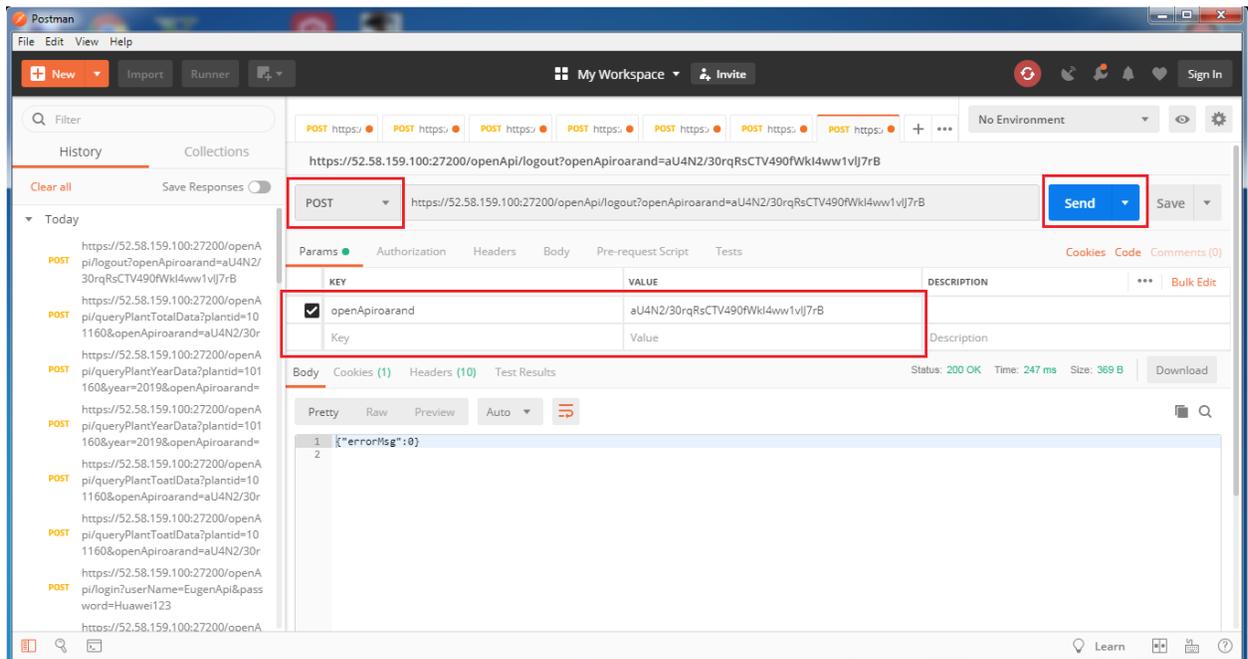## 13. Logout

URL: https://ip:port/ openApi/logout
Request:
Method: POST
Parameter: openApiroarand
Response:
Example: {"errorMsg":0}