

ATMEGA 32U4
(C/C++)

Raspberry Pi
(PHP / SQL)

Reading data
from smart meter



Converting
Data



HTTP
Post Request

HTTP Post
Via WiFi
ESP-01



Receiving
Post request



Verifying
API Key



Writing data
to database

Raspberry Pi
(PHP / SQL)

WiFi display

Wait 1 minute
or change
in mode

Receiving
HTTP
Get request

HTTP GET
Via WiFi

Selector
Parameter

Selector
To
Query

Run
Query

Edge Case
Detector

HTTP GET
return
Payload

Payload String
to Int array

Drawing Graph

