YAML

```
alias: __Zendure_New_Automation v4
description: ""
triggers:
  - trigger: time_pattern
    seconds: /30
conditions: []
actions:
  - sequence: []
  - alias: HP ou HC ?
    choose:
      - conditions:
          - condition: state
            entity_id: sensor.linky_current_price
            state:
              - HEURE PLEINE
        sequence:
          - alias: Etat de QCELLS
            choose:
              - conditions:
                  - condition: state
                    entity_id: sensor.qcells_etat
                    state:
                      - Standby
                sequence:
                  - alias: >-
                      Si il est à -10% (vide) alors on compense si nécessaire
                      avec SF2400
                    choose:
                      - conditions:
                          - condition: and
                            conditions:
                              - type: is_battery_level
                                condition: device
                                device_id: afda895cc1812b99521eb78710326b89
                                entity_id: f25a2fe7b99ed232a00fd0c82cb205e2
                                domain: sensor
                                below: 11
                              - condition: numeric_state
                                entity_id: sensor.te31njn8n387601_l3_p
                                above: 50
                        sequence:
```

```
- sequence:
    - if:
        - condition: device
          device_id: a9bed78637a3d4199888177480ba0f4b
          domain: select
          entity_id: faa8306ea0f42cc0b510209a0e408c8e
          type: selected_option
          option: Input mode
      then:
        - device_id: a9bed78637a3d4199888177480ba0f4b
          domain: select
          entity_id: faa8306ea0f42cc0b510209a0e408c8e
          type: select_option
          option: Output mode
      alias: >-
        SF2400 - Changement d'état IN to Out si
        necessaire
    - action: number.set_value
      target:
        entity_id: number.eeb4aep1p032084_outputlimit
      data:
        value: >
          {% set current =
          states('sensor.te31njn8n387601_l3_p') |
          float(0) %} {% set output =
          states('number.eeb4aep1p032084_outputlimit')
          | float(0) %}

          {% if -50 <= current <= 50 %}
            {{ output | round(0) }}

          {% else %}
            {% set delta = 0.7 * current %}
            {% set cible = output + delta %}
            {% set result = cible - 50 if cible > 0 else cible %}
            {{ [result, 900] | min | round(0) }}
          {% endif %}
- sequence:
    - if:
        - condition: device
          device_id: a9bed78637a3d4199888177480ba0f4b
          domain: select
          entity_id: faa8306ea0f42cc0b510209a0e408c8e
          type: selected_option
          option: Input mode
      then:
```

```
          - device_id: a9bed78637a3d4199888177480ba0f4b
            domain: select
            entity_id: faa8306ea0f42cc0b510209a0e408c8e
            type: select_option
            option: Output mode
        alias: >-
          SF2400 - Changement d'état IN to Out si
          necessaire
      - action: number.set_value
        target:
          entity_id: number.eeb4aep1p032084_outputlimit
        data:
          value: >
            {% set current =
            states('sensor.te31njn8n387601_l3_p') |
            float(0) %} {% set output =
            states('number.eeb4aep1p032084_outputlimit')
            | float(0) %}

            {% if -50 <= current <= 50 %}
              {{ output | round(0) }}

            {% else %}
              {% set delta = 0.7 * current %}
              {% set cible = output + delta %}
              {% set result = cible - 50 if cible > 0 else cible %}
              {{ [result, 900] | min | round(0) }}
            {% endif %}
    enabled: false
  alias: Si 3CT > 50W, on compense avec xW pour arriver à 50W
- conditions:
    - condition: numeric_state
      entity_id: sensor.te31njn8n387601_l3_p
      below: -200
    - type: is_battery_level
      condition: device
      device_id: afda895cc1812b99521eb78710326b89
      entity_id: f25a2fe7b99ed232a00fd0c82cb205e2
      domain: sensor
      above: 90
      alias: QCELLs > 90%
  sequence:
    - alias: >-
        On demarre la charge de SF2400 avec 0.3 de ce
        qu'on inject en trop
      sequence:
```

```
            - device_id: a9bed78637a3d4199888177480ba0f4b
              domain: select
              entity_id: faa8306ea0f42cc0b510209a0e408c8e
              type: select_option
              option: Input mode
            - device_id: a9bed78637a3d4199888177480ba0f4b
              domain: number
              entity_id: f2984ee0e6ebcf40e208c5a0d56b90d8
              type: set_value
              value: 0
            - action: number.set_value
              target:
                entity_id: number.eeb4aep1p032084_inputlimit
              data:
                value: >
                  {% set current =
                  states('sensor.te31njn8n387601_l3_p') |
                  float(0) %} {% set input =
                  states('number.eeb4aep1p032084_inputlimit')
                  | float(0) %}

                  {% if -50 <= current <= 50 %}
                    {{ input | round(0) }}

                  {% else %}
                    {% set current = current * -1 %}
                    {% set delta = 0.3 * current %}
                    {% set cible = input + delta %}
                    {% set result = cible - 50 if cible > 0 else cible %}
                    {{ [result, 900] | min | round(0) }}
                  {% endif %}
            - device_id: a9bed78637a3d4199888177480ba0f4b
              domain: number
              entity_id: 446540682f8a0142e01a5f8a2272926d
              type: set_value
              value: 200
              enabled: false
        alias: QCELLs full
  alias: QCELLS en Standby
- conditions:
    - condition: state
      entity_id: sensor.qcells_etat
      state:
        - En charge
  sequence:
    - alias: Si surplus de production
```

```
choose:
  - conditions:
      - condition: and
        conditions:
          - condition: numeric_state
            entity_id: sensor.qcells_inverter_production_2
            below: 20
          - type: is_power
            condition: device
            device_id: 181b299767530862f68a9d7f84c40146
            entity_id: 04b888d40622ee63c389a1da5046b77f
            domain: sensor
            below: -50
    sequence:
      - alias: Faut-il lancer la charge du SF2400 ?
        choose:
          - conditions:
              - condition: device
                device_id: a9bed78637a3d4199888177480ba0f4b
                domain: select
                entity_id: faa8306ea0f42cc0b510209a0e408c8e
                type: selected_option
                option: Output mode
            sequence:
              - target:
                  entity_id: number.eeb4aep1p032084_outputlimit
                data:
                  value: >
                    {% set current =
                    states('sensor.te31njn8n387601_l3_p') |
                    float %} {% set output =
                    states('number.eeb4aep1p032084_outputlimit')
                    | float %}

                    {% if -50 <= current <= 50 %}
                      {{ output | round(0) }}

                    {% else %}
                      {% set surplus = current * -1 %}
                      {% set delta = 0.7 * surplus %}
                      {{ (output - delta) | round(0) }}
                    {% endif %}
                action: number.set_value
            alias: >-
              SF2400 est-il en output, auquel ca il faut
              réduire son injection
```

```
      - conditions: []
        sequence:
          - sequence:
              - alias: >-
                  SF2400 - Changement d'état OUT to IN si
                  necessaire
                if:
                  - condition: device
                    device_id: a9bed78637a3d4199888177480ba0f4b
                    domain: select
                    entity_id: faa8306ea0f42cc0b510209a0e408c8e
                    type: selected_option
                    option: Output mode
                then:
                  - device_id: a9bed78637a3d4199888177480ba0f4b
                    domain: select
                    entity_id: faa8306ea0f42cc0b510209a0e408c8e
                    type: select_option
                    option: Input mode
              - target:
                  entity_id: number.eeb4aep1p032084_inputlimit
                data:
                  value: >
                    {% set current =
                    states('sensor.te31njn8n387601_l3_p') |
                    float %} {% set input =
                    states('number.eeb4aep1p032084_inputlimit')
                    | float %}

                    {% if -50 <= current <= 50 %}
                      {{ input | round(0) }}

                    {% else %}
                      {% set surplus = current * -1 %}
                      {% set delta = 0.7 * surplus %}
                      {{ (input + delta) | round(0) }}
                    {% endif %}
                action: number.set_value
    alias: 3CT negatif < -50W vérification sur QCELLS inject
  - conditions:
      - condition: or
        conditions:
          - condition: and
            conditions:
              - condition: numeric_state
                entity_id: sensor.qcells_inverter_production_2
```

```
                below: 10
              - condition: device
                device_id: a9bed78637a3d4199888177480ba0f4b
                domain: select
                entity_id: faa8306ea0f42cc0b510209a0e408c8e
                type: selected_option
                option: Output mode
            - condition: and
              conditions:
              - condition: numeric_state
                entity_id: sensor.qcells_inverter_production_2
                below: sensor.qcells_production_solaire
              enabled: false
        sequence:
          - target:
              entity_id: number.eeb4aep1p032084_outputlimit
            data:
              value: >
                {% set current =
                states('sensor.te31njn8n387601_l3_p') | float
                %}  {% set output =
                states('number.eeb4aep1p032084_outputlimit') |
                float %} {% set qcell =
                states('sensor.qcells_inverter_production_2') |
                float %}

                {% if qcell <= 10 %}
                  {{ output | round(0) }}

                {% else %}
                  {% set surplus = current * -1 %}
                  {% set delta = 0.1 * output %}
                  {{ (output - delta) | round(0) }}
                {% endif %}
            action: number.set_value
      alias: QCELLS en Charge
    - conditions:
        - condition: state
          entity_id: sensor.qcells_etat
          state:
            - En décharge
      sequence:
        - choose:
            - conditions:
                - alias: >-
                    QCELLs à plus de 90%, on réduit la charge de
```

```
      SF2400 si en charge
    condition: and
    conditions:
      - condition: and
        conditions: []
      - condition: numeric_state
        entity_id: sensor.qcells_batterie_level
        above: 90
      - condition: device
        device_id: a9bed78637a3d4199888177480ba0f4b
        domain: select
        entity_id: faa8306ea0f42cc0b510209a0e408c8e
        type: selected_option
        option: Input mode
  sequence:
    - action: number.set_value
      target:
        entity_id: number.eeb4aep1p032084_inputlimit
      data:
        value: >
          {% set current =
          states('sensor.te31njn8n387601_l3_p') | float(0)
          %}

          {% set input =
          states('number.eeb4aep1p032084_inputlimit') |
          float(0) %}

          {% if -50 <= current <= 50 %}
            {{ input | round(0) }}

          {% else %}
            {% set delta = 0.7 * current * -1 %}
            {% set cible = input - delta %}
            {% set result = cible - 50 if cible > 0 else cible %}
            {{ [result, 900] | min | round(0) }}
          {% endif %}
- conditions:
    - condition: numeric_state
      entity_id: sensor.te31njn8n387601_l3_p
      above: 50
    - type: is_power
      condition: device
      device_id: afda895cc1812b99521eb78710326b89
      entity_id: ef2eee2418adb0259f2f29dbd7ed8206
      domain: sensor
```

```
      above: 1900
  sequence:
    - sequence:
        - if:
            - condition: device
              device_id: a9bed78637a3d4199888177480ba0f4b
              domain: select
              entity_id: faa8306ea0f42cc0b510209a0e408c8e
              type: selected_option
              option: Input mode
          then:
            - device_id: a9bed78637a3d4199888177480ba0f4b
              domain: select
              entity_id: faa8306ea0f42cc0b510209a0e408c8e
              type: select_option
              option: Output mode
          alias: >-
            SF2400 - Changement d'état IN to Out si
            necessaire
        - action: number.set_value
          target:
            entity_id: number.eeb4aep1p032084_outputlimit
          data:
            value: >
              {% set current =
              states('sensor.te31njn8n387601_l3_p') |
              float(0) %} {% set output =
              states('number.eeb4aep1p032084_outputlimit')
              | float(0) %}

              {% if -50 <= current <= 50 %}
                {{ output | round(0) }}

              {% else %}
                {% set delta = 0.7 * current %}
                {% set cible = output + delta %}
                {% set result = cible - 50 if cible > 0 else cible %}
                {{ [result, 900] | min | round(0) }}
              {% endif %}
    alias: >-
      Qcells en Décharge mais on tire toujours de l'EDF, on
      compense avec SF2400
  - conditions:
      - type: is_power
        condition: device
        device_id: a9bed78637a3d4199888177480ba0f4b
```

```
            entity_id: b220a07315cd6e8c253e8c771528fd3e
            domain: sensor
            above: 50
          sequence:
            - sequence:
                - action: number.set_value
                  target:
                    entity_id: number.eeb4aep1p032084_outputlimit
                  data:
                    value: >
                      {% set current =
                      states('sensor.te31njn8n387601_l3_p') |
                      float(0) %}

                      {% set output =
                      states('number.eeb4aep1p032084_outputlimit')
                      | float(0) %}


                      {% set delta = 0.3 * output %}

                      {% set cible = output - delta %}

                      {% set result = cible - 50 if cible > 0 else
                      cible %}


                      {% if -50 <= result <= 50 %}
                        {{ output | round(0) }}

                      {% else %}
                        {{ [result, 900] | min | round(0) }}
                      {% endif %}
              alias: QCELLs est en Decharge mais SF aussi, on reduit SF
      alias: QCELLS en Decharge
  alias: Si HP
- conditions:
    - condition: state
      entity_id: sensor.linky_current_price
      state:
        - HEURE CREUSE
  sequence:
    - alias: Faut-il lancer la charge du SF2400 ?
      choose:
        - conditions:
            - condition: state
              entity_id: sensor.qcells_etat
```

```
      state:
        - En décharge
    sequence:
      - sequence:
          - target:
              entity_id: number.eeb4aep1p032084_inputlimit
            data:
              value: "0"
            action: number.set_value
    alias: >-
      QCELLs est en Décharge alors mettre le SF2400 en input mais à
      0W !
  - conditions:
      - condition: and
        conditions:
          - condition: state
            entity_id: sensor.qcells_etat
            state:
              - Standby
            alias: Si Qcells est Standby
          - condition: numeric_state
            entity_id: sensor.qcells_batterie_level
            below: 11
            alias: Si QCells < 11%
          - type: is_battery_level
            condition: device
            device_id: a9bed78637a3d4199888177480ba0f4b
            entity_id: 23f1ec717c4dcf6732d11bfaac92d296
            domain: sensor
            below: 35
            alias: Si SF2400 < 35%
    sequence:
      - sequence:
          - alias: SF2400 - Changement d'état OUT to IN si necessaire
            if:
              - condition: device
                device_id: a9bed78637a3d4199888177480ba0f4b
                domain: select
                entity_id: faa8306ea0f42cc0b510209a0e408c8e
                type: selected_option
                option: Output mode
            then:
              - device_id: a9bed78637a3d4199888177480ba0f4b
                domain: select
                entity_id: faa8306ea0f42cc0b510209a0e408c8e
                type: select_option
                option: Input mode
```

```
      - target:
          entity_id: number.eeb4aep1p032084_inputlimit
        data:
          value: "900"
        action: number.set_value
      - if:
          - condition: numeric_state
            entity_id: number.eeb4aep1p032084_inputlimit
            below: 800
        then:
          - device_id: a9bed78637a3d4199888177480ba0f4b
            domain: number
            entity_id: 446540682f8a0142e01a5f8a2272926d
            type: set_value
            value: 900
  alias: Charge SF2400 Si Qcells vide et SF2400 <35%
- conditions:
    - type: is_battery_level
      condition: device
      device_id: a9bed78637a3d4199888177480ba0f4b
      entity_id: 23f1ec717c4dcf6732d11bfaac92d296
      domain: sensor
      above: 89
  sequence:
    - sequence:
        - alias: SF2400 - Changement d'état IN to OUT si necessaire
          if:
            - condition: device
              device_id: a9bed78637a3d4199888177480ba0f4b
              domain: select
              entity_id: faa8306ea0f42cc0b510209a0e408c8e
              type: selected_option
              option: Input mode
          then:
            - device_id: a9bed78637a3d4199888177480ba0f4b
              domain: select
              entity_id: faa8306ea0f42cc0b510209a0e408c8e
              type: select_option
              option: Output mode
        - target:
            entity_id: number.eeb4aep1p032084_outputlimit
          data:
            value: "300"
          action: number.set_value
  alias: SF2400 est à >=90%
- conditions:
    - condition: and
```

```
            conditions:
              - condition: device
                device_id: a9bed78637a3d4199888177480ba0f4b
                domain: select
                entity_id: faa8306ea0f42cc0b510209a0e408c8e
                type: selected_option
                option: Output mode
                alias: "SF2400 Mode : output"
              - type: is_battery_level
                condition: device
                device_id: a9bed78637a3d4199888177480ba0f4b
                entity_id: 23f1ec717c4dcf6732d11bfaac92d296
                domain: sensor
                below: 41
                alias: SF2400 Bat <=41%
            alias: SF2400 <=41% et AC Output
          sequence:
            - sequence:
                - target:
                    entity_id: number.eeb4aep1p032084_outputlimit
                  data:
                    value: "0"
                  action: number.set_value
                  alias: "SF2400 Stop decharge : Output 0W"
              alias: Stop decharge SF2400
          alias: SF2400 est à <=40% et si il etait en décharge, on stop
    alias: Si HC
mode: single
```

Revision #1
Created 2026-05-17 19:05:26 UTC by Geoffrey
Updated 2026-05-17 19:05:38 UTC by Geoffrey