



Slimme meter data voor een efficiënte energy transitie

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Eerst even voorstellen ...

- Hanneke van der Horst
- Quby, Eneco, NET2GRID, Papilvia
- > 15 jaar ervaring met energie inzichten
- Customer engagement, LivingLab, apps

NET2GRID

- Locaties: NL, Griekenland, VS
- EnergyAI®, energie inzichten uit slimme meter data
- Klanten/partners in Europa & NAM





Even terug in de tijd.... METEN = WETEN

WIE KENT DIT SOORT APPARAATJES?



Met de uitrol van de slimme meter worden ***energie inzicht apps*** “mainstream”

- Inzicht in energiekosten
- Inzicht in grootverbruikers
- Persoonlijk relevante bespaartips



Increase self-consumption with alerts & forecasts



Insight

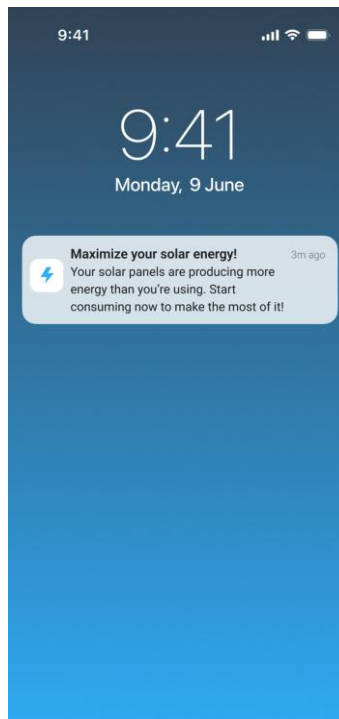
Prosumers, specially from countries without compensation for solar injection, want to consume their solar production as much as possible themselves.

Solution

Help consumers to make more use of their solar production with forecasts, real-time solar injection alerts and recommendations on how to shift the load of (bigger) appliances.

Benefit

Activate flexibility without additional hardware.



< Solar production forecasting

Tomorrow's forecast



Sunny and windy, so lots of renewable energy expected!



Solar production

8,2 kWh

Recommendations

Shift your consumption to **12:00 to 16:00 PM** tomorrow as high solar production is expected!

To do

Solar forecasting

Use this solar forecast to plan your energy use and make the most of sunlight!

Today

Tomorrow

Week



Manual load shifting with dynamic/ToU tariffs



Insight

Consumers want to benefit from dynamic/ToU tariffs, but without the risk having to pay too much because of energy usage during high tariff periods. Consumers also want to monitor their usage & costs and make optimal use of low tariffs.

Solution

Notifications with next day tariffs.
Always up-to-date costs overviews.
Recommendations on how to optimize appliance utilisation.

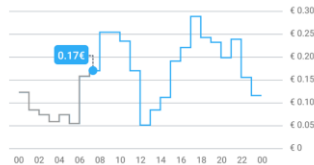
Benefit

Take away barriers and unclarity around dynamic/ToU tariff contracts.

< Energy price

⚡ Energy price now 07:00 - 08:00 **0.17 €/kWh**

Today Tomorrow 5 day



Highest electricity price 17:00-18:00 **0.29 €**

Notify me

Lowest electricity price 12:00-13:00 **0.05 €**

Notify me

Recommendations



Consider charging your electric vehicle between 12:00 PM - 3:00 PM, as the electricity price is low.

To do

Automated load shifting via DER asset automation



Insight

Consumers with multiple DER assets want to fully automate and make optimal use of lower tariffs via load shifting their DER assets.

Solution

Near real-time energy consumption, injection and dynamic tariff data available via local LAN and cloud Streamer for DER OEMs and HEMS providers to consume, so they can determine the most cost effective moments.

Benefit

Home installation state and energy price informed automations for load -balancing installation and making use of lowest energy prices, without losing comfort.

< Smart charging

Smart charging



56%



Expected cost	2.60 €
Expected cost savings	0.80 €

Started	23:00
Ends	11:00

Tariff plan advice



Insight

Consumers with DERs (mainly EV charger owners) want an easy way to save on energy, without sacrificing comfort. They would consider switching to a dynamic/ToU plan, if that results in a reduced energy bill.

Solution

Target EV owners with outcome of DER detection and calculate potential savings by comparing current cost structure with wholesale prices.

Benefit

Unlock flexibility by targeting dynamic tariffs/ToU contracts to customers with EV.

< Dynamic tariff plan

Switch to our dynamic tariff plan
& smart EV charging



We've selected a tariff for you that is cheaper,
do you want to switch?

Monthly EV charging cost

Current plan € 102,89

New dynamic tariff plan € 77,17

Stay on the current plan

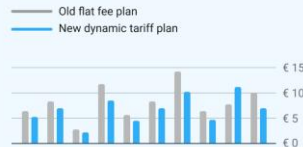
Switch plan & save € 25,72



Well done for switching to
the dynamic tariff!

You saved € 25,72 this month compared
to your previous tariff plan!

EV charging cost November



Old flat fee plan 278,09 kWh € 102,89

Dynamic tariff plan 278,09 kWh € 77,17

Solar PV / Home battery upsell



Insight

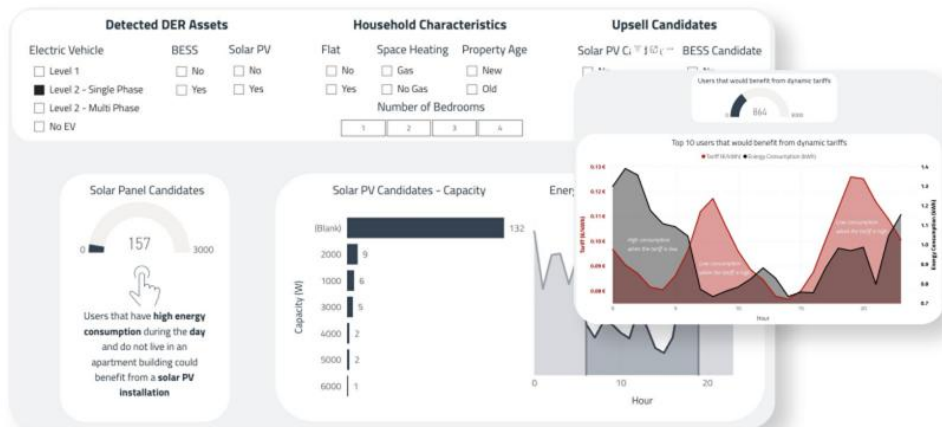
Consumers who are looking for their next step in the energy transition are looking for the best offering that suits their home & living situation.

Solution

Based on the historical energy consumption the optimal sizing is calculated for Solar PV and/or Home battery system.

Benefit

Personalized offering which takes into account the energy usage patterns of the household.



Solar PV monitoring service



Insight

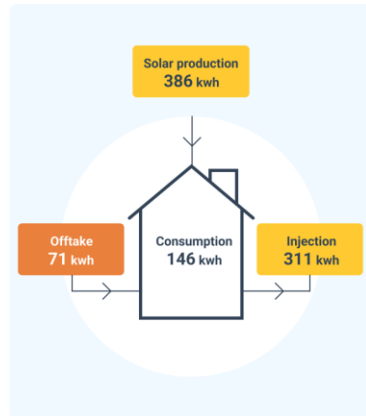
Consumers want to see if their PV system produce as expected and they can expect to receive the promised ROI. This is not easily calculated manually because of different seasons and weather.

Solution

This service provides insight into how much the PV system produces, in relation to the expected production based on addition profile questions concerning the PV system. And automatic detection of failures.

Benefit

Service with revenue guarantee for PV owners.



Solar monitoring

Your solar panels are performing as expected!

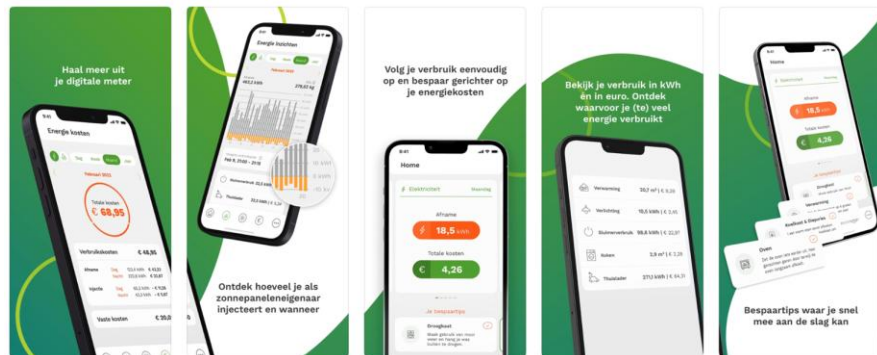


Shadow detected!

Your solar production may be impacted by obstructions such as buildings or trees. This leads to a reduction in energy production.

[Learn more](#)

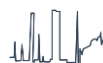
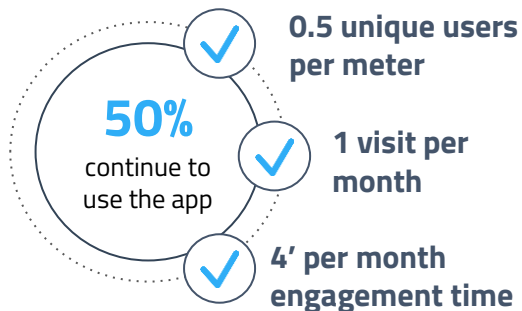
Basic monitoring vs Energy Control Monitor



- Met name eigenaren van zonnepanelen nemen upgrade real-time service
- > 50% stelt alerts in
- Hoge NPS



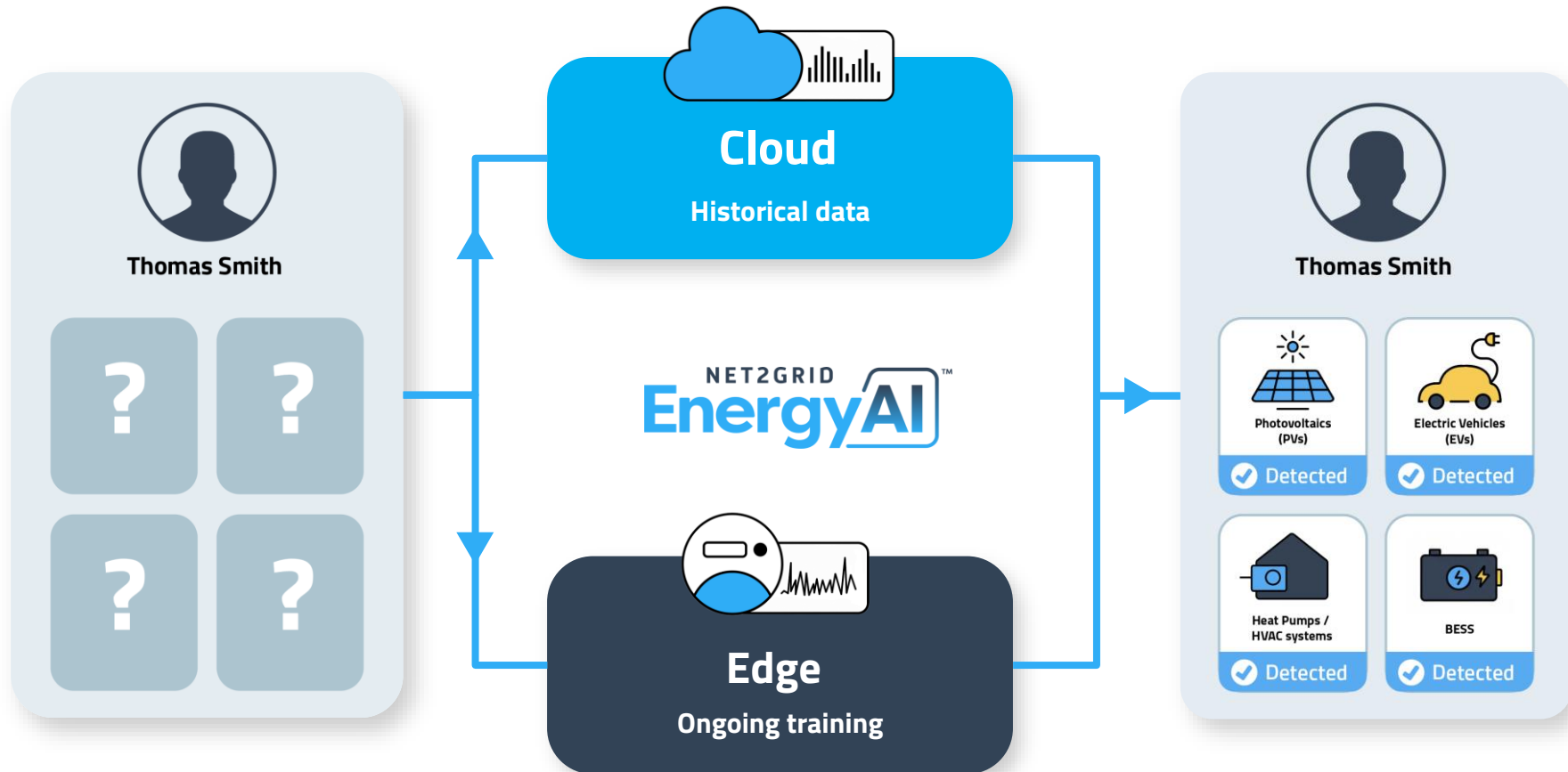
Free of charge
smart meter app



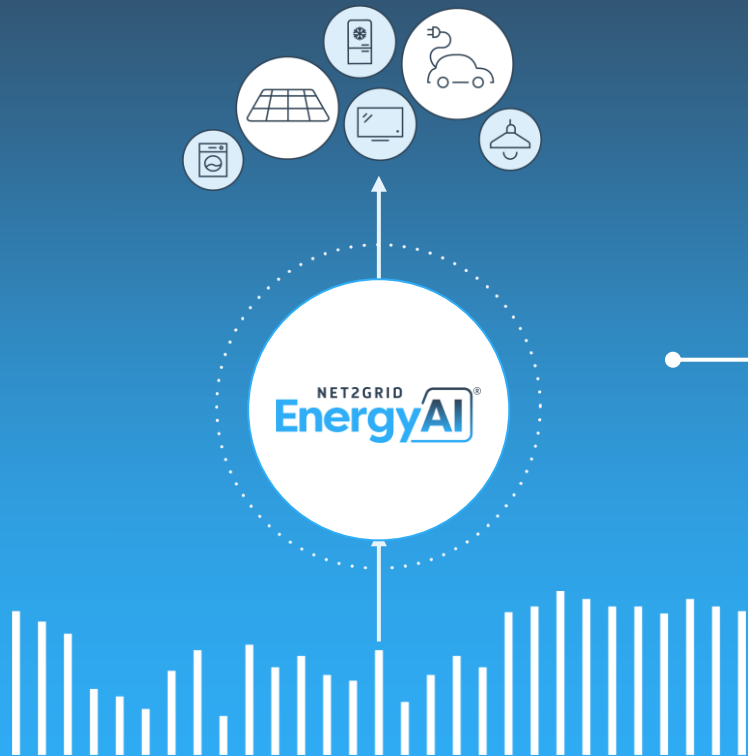
Upgrade towards
real-time dongle



Detectie, patroon herkenning & volume inschatting



resulting in highly accurate and personalized energy insights and home asset profiles



LV Grid Observation & Planning,
Non-Wires Alternatives Design



Personalized Marketing & **Home Energy Reports**, Behavioral Energy Efficiency



Personalized Customer Experience,
Bill Manager & TOU Rate Design/Advising



Stelling:

Inzet slimme meter inzichten voor ***beleid & validatie***



Stelling:

Inzet slimme meter inzichten voor ***netwerk planning***



Stelling:

Inzet slimme meter inzichten voor ***gedragsbeïnvloeding***