

Dynamic energy contracts

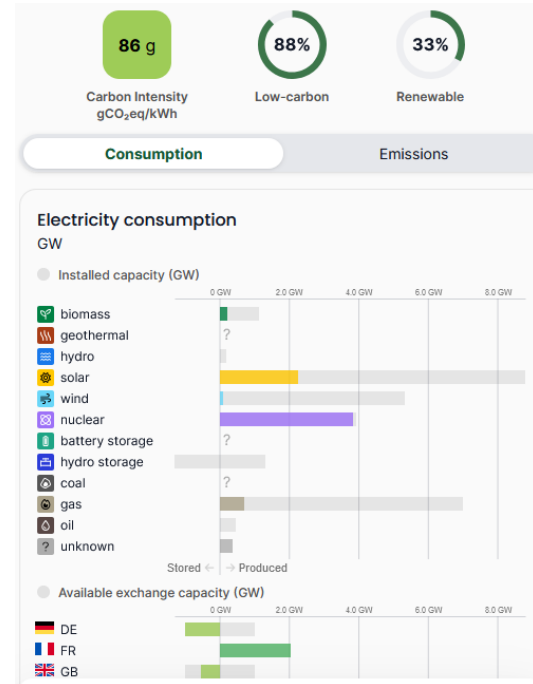
Ward De Ridder

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- My energy situation
- Quick overview of Energy pricing in Belgium
- How to know Dynamic energy pricing is right for me
- Price evolutions during the day / week
- Future plans

Energy Landscape in Belgium

- <https://app.electricitymaps.com>



My situation

- Living in a row house in Antwerp
- Lower than neighbors
 - No solar
- Heating on gas
- Electric car that I don't use to commute

Energy pricing in Belgium (private customers)

- Some fixed prices for connection, net manager, ...
- Cost GSC €0,0158/kWh
- Cost WKK €0,0026/kWh
- Net manager €0,0434/kWh
- Taxes € 0,0019/kWh
- More Taxes € 0,0475/kWh
- **TOTAL: €0.1112/kWh (excluding energy price)**

Energy Price

Dynamic	Variable	Fixed
Last months from me between 3 en 5 ct/kWh month average	13,79ct/kWh	15,62ct/kWh
Changes every hour	Changes every month	Stays the same for 1 year
1,02 * EPEX DA + 4 euro/MWh EPEX DA = day ahead price, you know at 2PM the day before	(0,107* Belpex_RLP_VL+1,5) Belpex_RLP_VL = price based on consumption on the average Flamish customer)	

Energy pricing for multiple providers

	Tarief-formula (*)	Price Per Year
Ebem Groen Dynamic	$(0,108 \times \text{index} + 1,75) \times 1,06$	74,99 euro
Ecopower Dynamische Burgerstroom	$(0,102 \times \text{index} + 0,4) \times 1,06$	63,60 euro
Eneco Zon & Wind Dynamisch	$(0,1020 \times \text{index} + 1) \times 1,06$	100,00 euro
Engie Dynamic	$(0,1000 \times \text{index} + 1,395) \times 1,06$	100,70 euro
Frank Energie Dynamisch	$(0,1068 \times \text{index} + 1,5) \times 1,06$	60,00 euro
Luminus Dynamic	$(0,1054 \times \text{index} + 1,12) \times 1,06$	74,99 euro
Octa+ Dynamic	$(0,1038 \times \text{index} + 0,393) \times 1,06$	74,99 euro
Octa + Eco Dynamic	$(0,1045 \times \text{index} + 1,24) \times 1,06$	130,00 euro
Power2You Dynamic	$(0,1 \times \text{index} + 1,0) \times 1,06$	60,00 euro
Power2You Flow (3 jaar)	$(0,105 \times \text{index} + 0,8) \times 1,06$	120,00 euro
Trevion Groene Energie Dynamisch	$(0,107 \times \text{index} + 1,3) \times 1,06$	39,00 euro

Capacity tarif

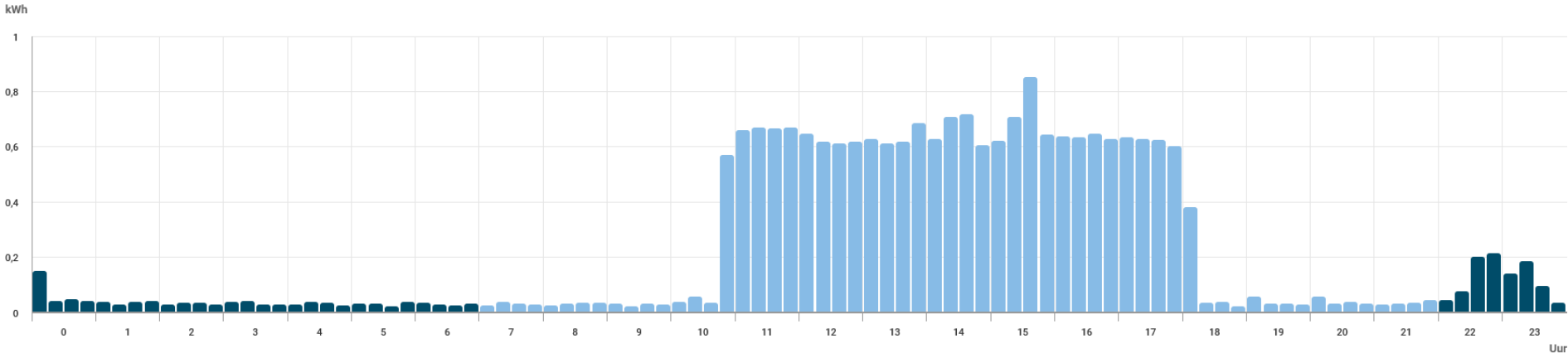
- Pay to the net manager
- Pay for the highest usage 15 minutes in the month
 - €2/kW/month
 - Minimal 2,5kW

How I figured out Dynamic is beneficial for me

1. Monitoring current usage
2. See if it would be beneficial if I didn't make any behavior change
3. Getting scared by my energy supplier
4. Going for it anyway

Monitoring current usage

- <https://mijn.fluvius.be/verbruik/>
- Usage every 15 minutes
- 3 day delay



Live Monitoring

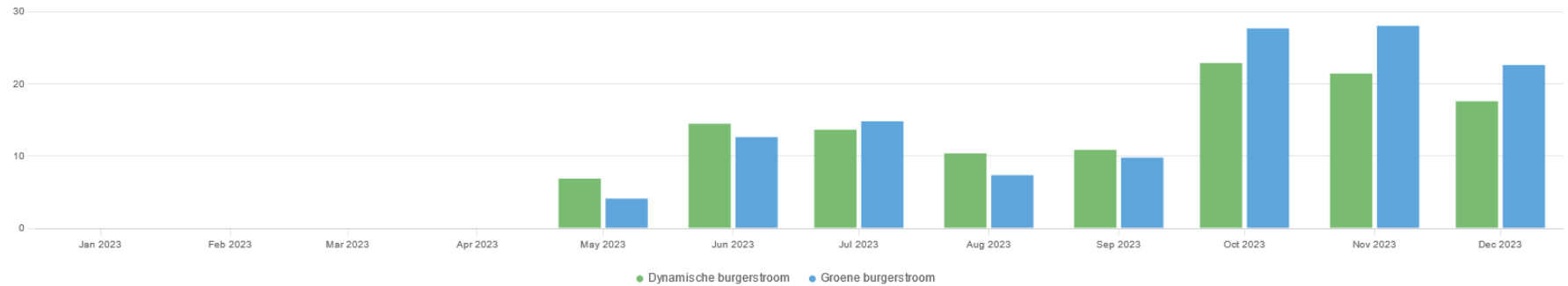
- Connect a device to digital meter
- Live reading



Costs without changing any habits

Price comparison based on your digital measurement data

This chart shows the result of both Ecopower price formulas, both for your consumption and for your injection.



Dynamische burgerstroom
118 €

Groene burgerstroom
127 €

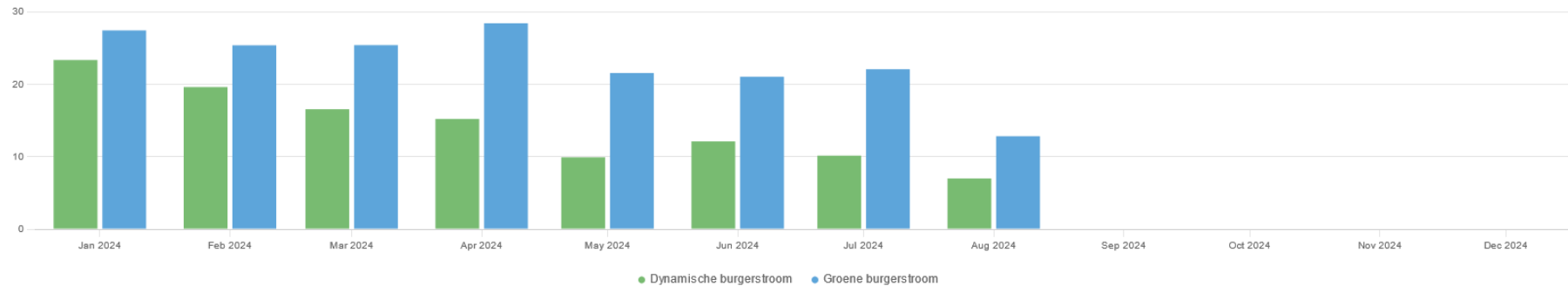
<https://app.energyid.eu>

Trying a bit more to get a good price

Price comparison based on your digital measurement data



This chart shows the result of both Ecopower price formulas, both for your consumption and for your injection.



Dynamische burgerstroom	Groene burgerstroom
114 €	184 €

Scary warning from my electricity provider

- **WARNING:** this says nothing about the future! This information does say something about the competitiveness of Green Citizen Power compared to the market price, but nothing about whether or not your personal profile is suitable for a dynamic price. A tool that compares your personal profile with the RLP-weighted profile that is used for each customer in the market is still being worked on. This comparison may provide useful insights in the future.

Going for it anyway

- I can switch back, but will not be allowed to switch back to dynamic for 6 months

Price change during day / week / year...

- Summer has more renewable energy
 - Cheaper
- Weekend has less (industrial) energy demand
 - Cheaper
- 6-9PM everyone is cooking
 - More expensive

Pricing today

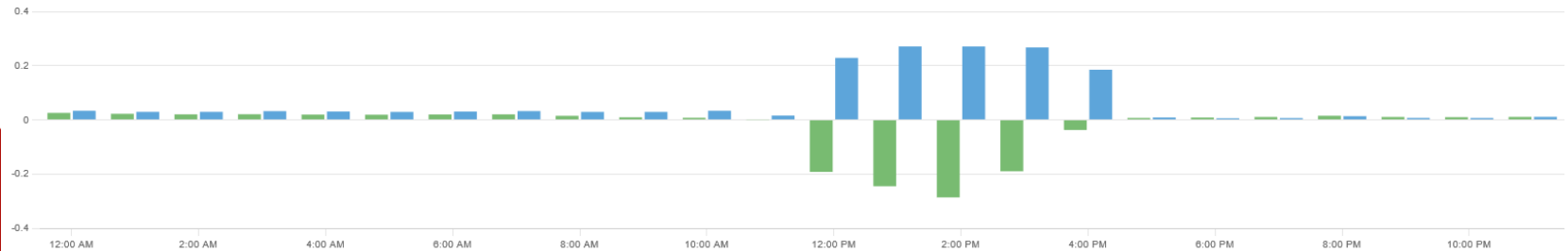


Price on a very cheap day

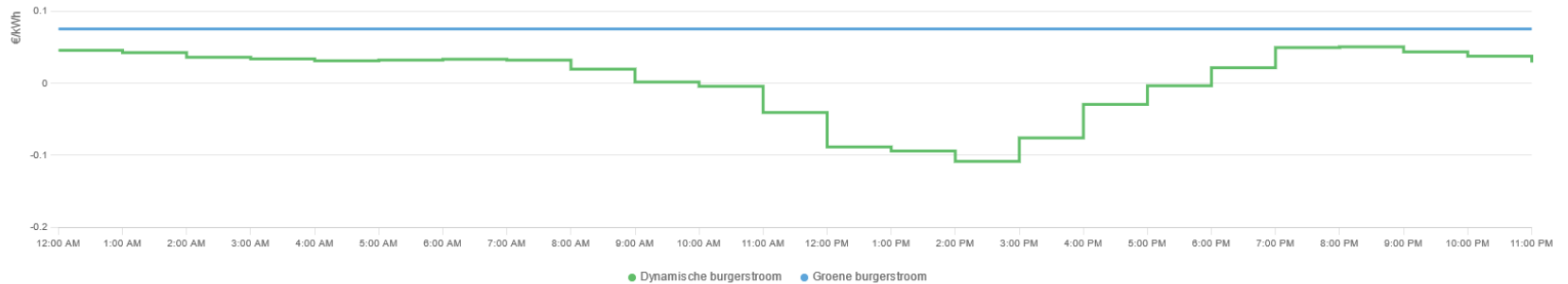


Price comparison based on your digital measurement data

This chart shows the result of both Ecopower price formulas, both for your consumption and for your injection.



Injection on very cheap day



Result (month of July)

Energiekost (het gedeelte voor Ecopower)

Abonnementkost	01.07.2024 - 31.07.2024	1 maand	€ 5,0000/maand	€ 5,00	6%
Dynamische burgerstroom	01.07.2024 - 31.07.2024	195,96 kWh	€ 0,0262/kWh	€ 5,14	6%
Kost GSC	01.07.2024 - 31.07.2024	195,96 kWh	€ 0,0110/kWh	€ 2,16	6%
Kost WKK	01.07.2024 - 31.07.2024	195,96 kWh	€ 0,0039/kWh	€ 0,77	6%

Nettarieven (het gedeelte dat Ecopower doorstort aan de netbeheerder)

Future plans

- Add 5kWh home battery
 - No way to really earn it back right now
 - But getting close after 10 years (EOL of battery)
 - Save something on power and on capacity tarif
 - A home UPS is nice to have
- Add smart car charger
 - I can automate even more
- Create an AI prediction model
 - Have a rough idea a couple of days before