NL-Energy Consumption Dashboard 2023 🔥

OverView 🇳🇱
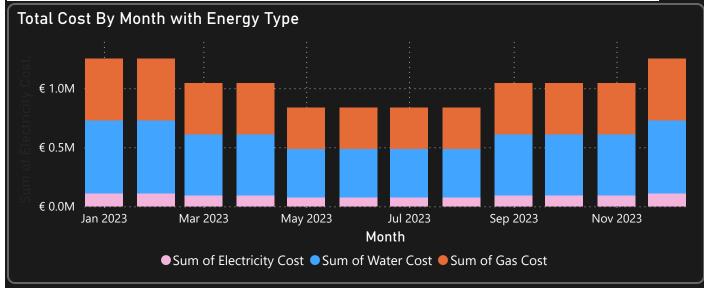
Total Cost
12.30M

Total Consumption
14.37M

Total CO2 Emissions
6.22M

Province
All ⌄

Month
01-01-2023 01-12-2023

Total Cost By Month with Energy Type

Sum of Electricity Cost   Sum of Water Cost   Sum of Gas Cost

Total Cost by Province

Microsoft Bing
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Total consumption by Energy Type

- 33.12% — Sum of E...
- 42.28% — Sum of ...
- 24.6% — Sum of ...

Total Cost By Energy Type

- 8.9% — Sum of E...
- 41.68% — Sum of ...
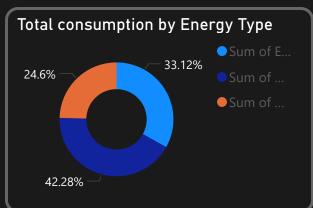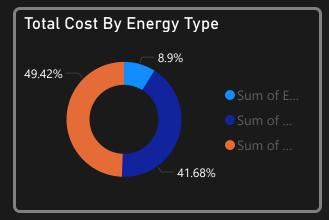- 49.42% — Sum of ...

Summery

Total Cost remained relatively constant between Sunday, January 1, 2023 and Friday, December 1, 2023.

At 10,58,731.66, South Holland had the highest Total Cost and was 7.35% higher than Zeeland, which had the lowest Total Cost at 9,86,200.83.

South Holland accounted for 8.61% of Total Cost.

NL-Energy Consumption Dashboard 2023 🔥

OverView

Water Cost
6.08M

Water Consumption
6.08M

Avg Monthly Cost
42.20K

Province
All

Month
01-01-2023   01-12-2023

Water Cost by Month

Month	Water Cost	Water Consumption	Avg Monthly Cost
01 December 2023	6,15,761.15	6,15,761.20	51,313.43
01 November 2023	5,14,816.70	5,14,816.70	42,901.39
01 October 2023	5,14,816.70	5,14,816.70	42,901.39
01 September 2023	5,14,816.70	5,14,816.70	42,901.39
01 August 2023	4,13,872.24	4,13,872.10	34,489.35
01 July 2023	4,13,872.24	4,13,872.10	34,489.35
01 June 2023	4,13,872.24	4,13,872.10	34,489.35
01 May 2023	4,13,872.24	4,13,872.10	34,489.35
01 April 2023	5,14,816.70	5,14,816.70	42,901.39
01 March 2023	5,14,816.70	5,14,816.70	42,901.39
01 February 2023	6,15,761.15	6,15,761.20	51,313.43
01 January 2023	6,15,761.15	6,15,761.20	51,313.43
Total	**60,76,855.89**	**60,76,855.50**	**42,200.39**

Water Cost by Main City

The Hague	Leeuwarden	Assen	Lelystad	Amsterd...
Zwolle	Utrecht	Maastricht		
Eindhoven	Arnhem	Groningen	Middelburg	

Water Cost by Region Type

Region Type
- North — 24.93%
- South — 24.85%
- East — 16.92%
- West — 16.7%
- Central — 16.59%

NL-Energy Consumption Dashboard 2023 🔥

OverView 🇳🇱

Total Gas Cost
5.13M

Gas Consumption
3.54M

Avg Monthly Gas Cost
35.60K

Province
All ▾

Month
01-01-2023   01-12-2023

Total Gas Cost by Month
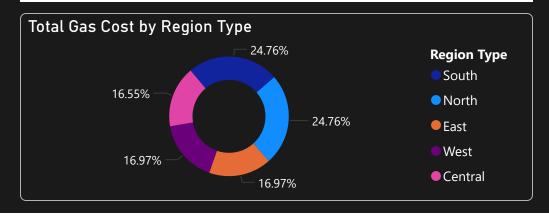
Month	Total Gas Cost	Avg Monthly Cost	Gas Consumption
01 January 2023	5,21,275.00	51,313.43	3,59,500.00
01 February 2023	5,21,275.00	51,313.43	3,59,500.00
01 March 2023	4,34,395.83	42,901.39	2,99,583.30
01 April 2023	4,34,395.83	42,901.39	2,99,583.30
01 May 2023	3,47,516.67	34,489.35	2,39,666.70
01 June 2023	3,47,516.67	34,489.35	2,39,666.70
01 July 2023	3,47,516.67	34,489.35	2,39,666.70
01 August 2023	3,47,516.67	34,489.35	2,39,666.70
01 September 2023	4,34,395.83	42,901.39	2,99,583.30
01 October 2023	4,34,395.83	42,901.39	2,99,583.30
01 November 2023	4,34,395.83	42,901.39	2,99,583.30
01 December 2023	5,21,275.00	51,313.43	3,59,500.00
Total	**51,25,870.83**	**42,200.39**	**35,35,083.30**

Total Gas Cost by Main City

The Hague	Utrecht	Leeuwarden	Groningen	Lelystad
Zwolle	Amsterdam	Maastricht		
Eindhoven	Arnhem	Assen	Middelburg	

Total Gas Cost by Region Type

Region Type
- South
- North
- East
- West
- Central

24.76% 24.76% 16.55% 16.97% 16.97%

Total Electricity Cost	Electricity Consumption	Avg Monthly Ele Cost
1.09M	**4.76M**	**33.05K**

Province

All

Month

01-01-2023   01-12-2023

Total Electricity Cost by Month

Month	Total Electricity Cost	Electricity Consumption	Avg Monthly Ele Cost
01 December 2023	1,11,320.00	4,84,000.00	40,333.33
01 November 2023	92,766.67	4,03,333.30	33,611.11
01 October 2023	92,766.67	4,03,333.30	33,611.11
01 September 2023	92,766.67	4,03,333.30	33,611.11
01 August 2023	74,213.33	3,22,666.70	26,888.89
01 July 2023	74,213.33	3,22,666.70	26,888.89
01 June 2023	74,213.33	3,22,666.70	26,888.89
01 May 2023	74,213.33	3,22,666.70	26,888.89
01 April 2023	92,766.67	4,03,333.30	33,611.11
01 March 2023	92,766.67	4,03,333.30	33,611.11
01 February 2023	1,11,320.00	4,84,000.00	40,333.33
Total	**10,94,646.67**	**47,59,333.30**	**33,050.93**

Total Electricity Cost by Main City

The Hague	Utrecht	Arnhem	Groningen	Lelystad
Zwolle	Leeuwarden	Assen		
Eindhoven	Amsterdam	Maastricht	Middelburg	

Total Electricity Cost by Region Type

16.63%
16.84%
16.94%
24.79%
24.79%

Region Type
- Central
- East
- North
- South
- West

🔍 Key Findings:

Energy Consumption & Costs:

- **Total Energy Cost:** €12.30M
- **Total Energy Consumption:** 14.37M Units
- **Total CO_2 Emissions:** 6.22M Tons

Regional Insights:

- **South Holland** and **North Holland** recorded the **highest energy costs** in the Netherlands for 2023.
- **Electricity** and **Gas** were the primary contributors to both **energy costs** and **CO_2 emissions**, reflecting the major impact of these energy sources in the region.

CO_2 Emissions:

- **CO_2 emissions** were largely tied to **heating** and **energy production**, emphasizing the environmental impact of electricity and gas consumption.
- **Water consumption** remained stable throughout the year, with minimal impact on emissions, in contrast to the significant influence of electricity and gas.

📊 Real vs. Estimated Data Comparison:

Metric	Project Estimate	Real-World Estimate
Total Energy Cost	€12.30M	€12–13M
Total Consumption	14.37M Units	14–15M MWh
CO_2 Emissions	6.22M Tons	6.0–6.5M Tons

✅ Conclusion:

The **Power BI dashboard** successfully simulates the **2023 energy consumption trends in the Netherlands**, closely matching real-world **CBS (Statistics Netherlands)** data. This makes it a reliable tool for understanding the regional energy cost, consumption patterns, and emissions.

🧠 Extra Insights:

- **Electricity and Gas** are the largest contributors to both **cost** and **emissions**, requiring targeted action in these sectors for cost and environmental