

Analysis of fuel prices in Germany

December 2025

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Data source:

Tankerkönig API – Spritpreis- und Tankstellen-Informationsservice

Data provided by Tankerkönig UG, based on data from the German Market Transparency Unit for Fuels (MTS-K).

[Geschäftsbedingungen - Tankerkönig API](#)

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Usage note:

This project was created **for educational and portfolio purposes only**.

No raw data is redistributed.

The project is non-commercial and complies with Tankerkönig API terms of service.

Data note:

The analysis is based on real-world fuel price data obtained via the Tankerkönig API for the specified period.

Data accuracy, completeness, and availability are not guaranteed by the data provider.

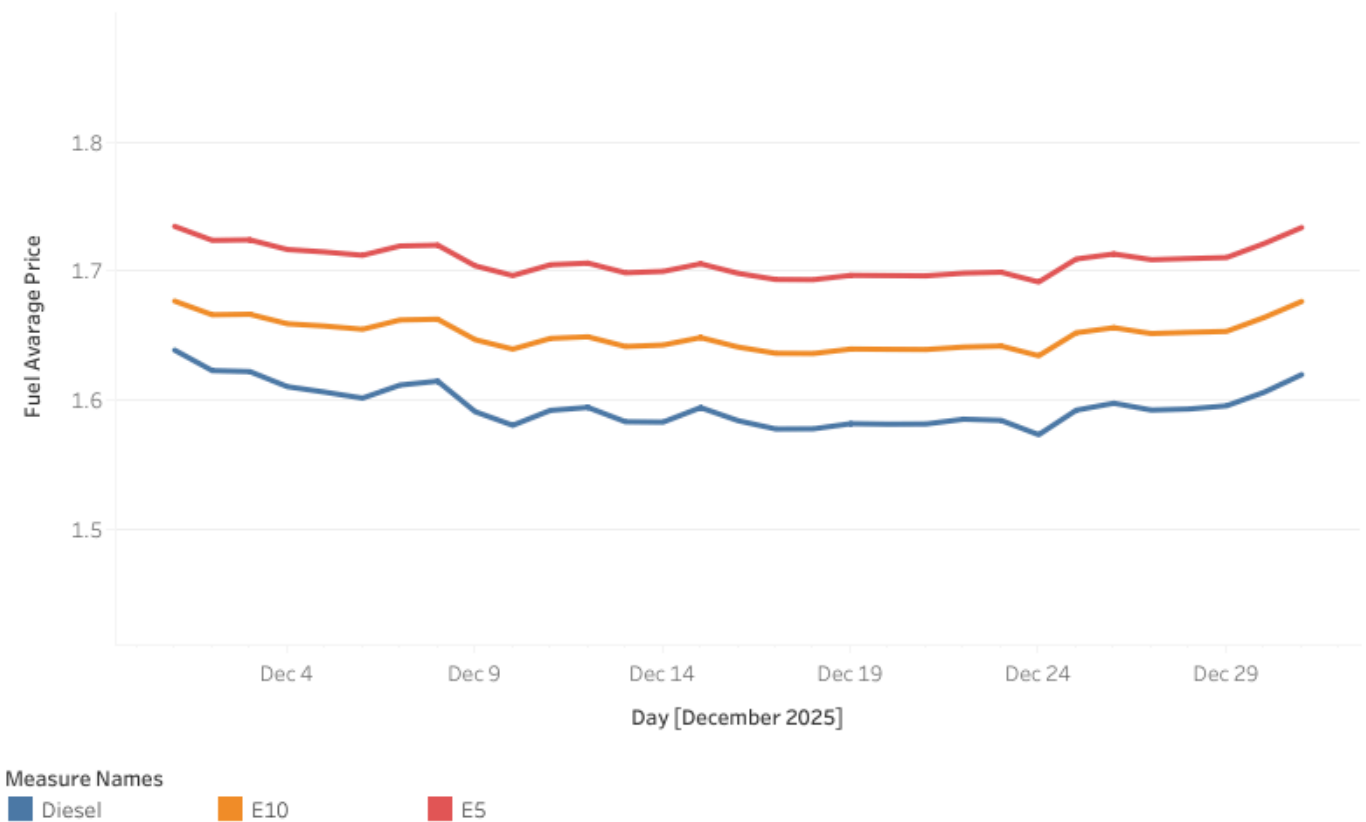
Data period:

December 1, 2025 – December 31, 2025

Monthly Dynamics

All data from the next chart is averaged from all refueling stations in Germany

Average prices for each type of fuel



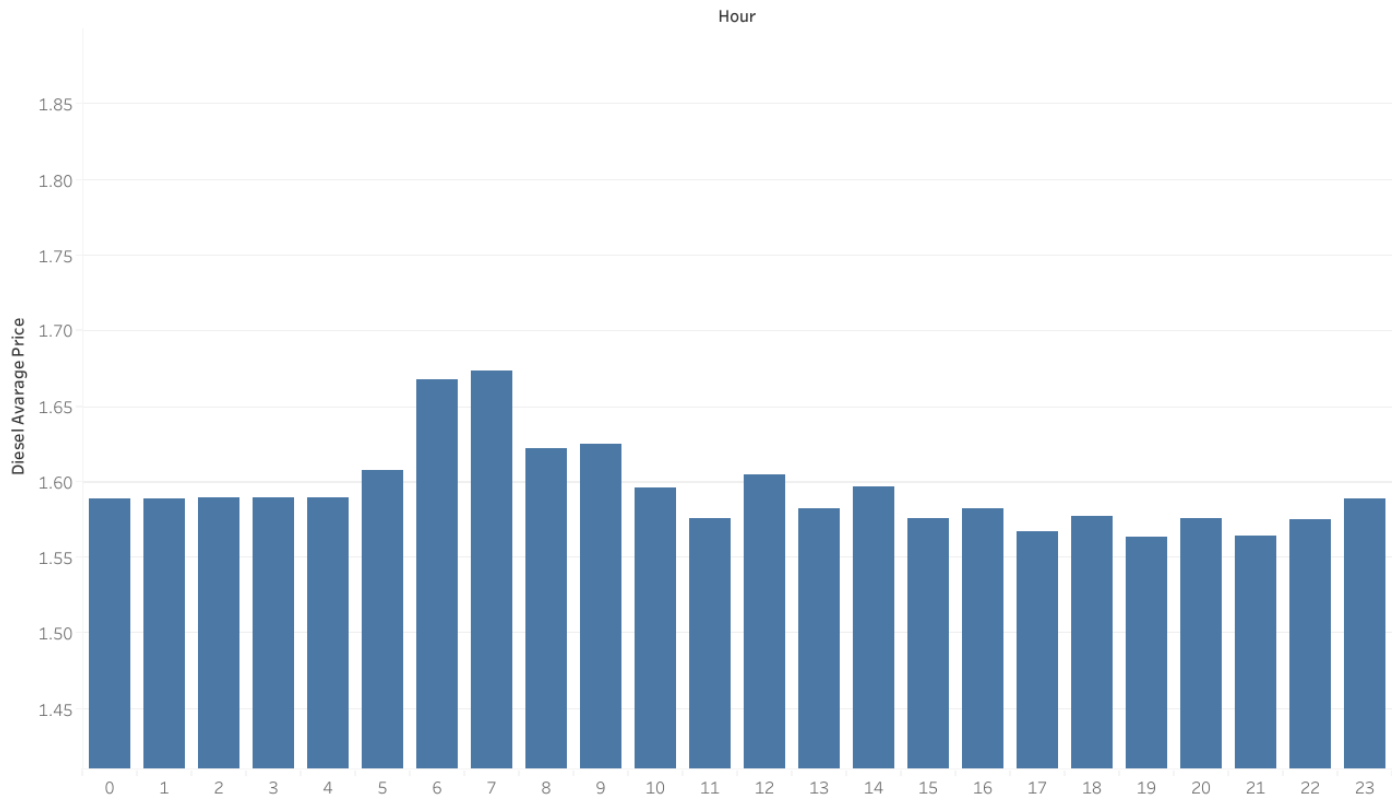
Diesel, E5, and E10 exhibit synchronized price movements, with **E5 consistently being the most expensive fuel**, followed by E10, while Diesel remains the cheapest. Overall, **fuel prices fluctuate within a narrow range of approximately €0.05**.

Prices are **slightly higher at the beginning of December** and gradually decline during the first half of the month. A **brief increase occurs on December 8**, while the **lowest prices are recorded on December 24**, just before Christmas. **In the final week of December, prices rise again**, indicating a year-end increase.

Daily Price Dynamics

All data in the following 3 graphs are averaged across all filling stations in Germany

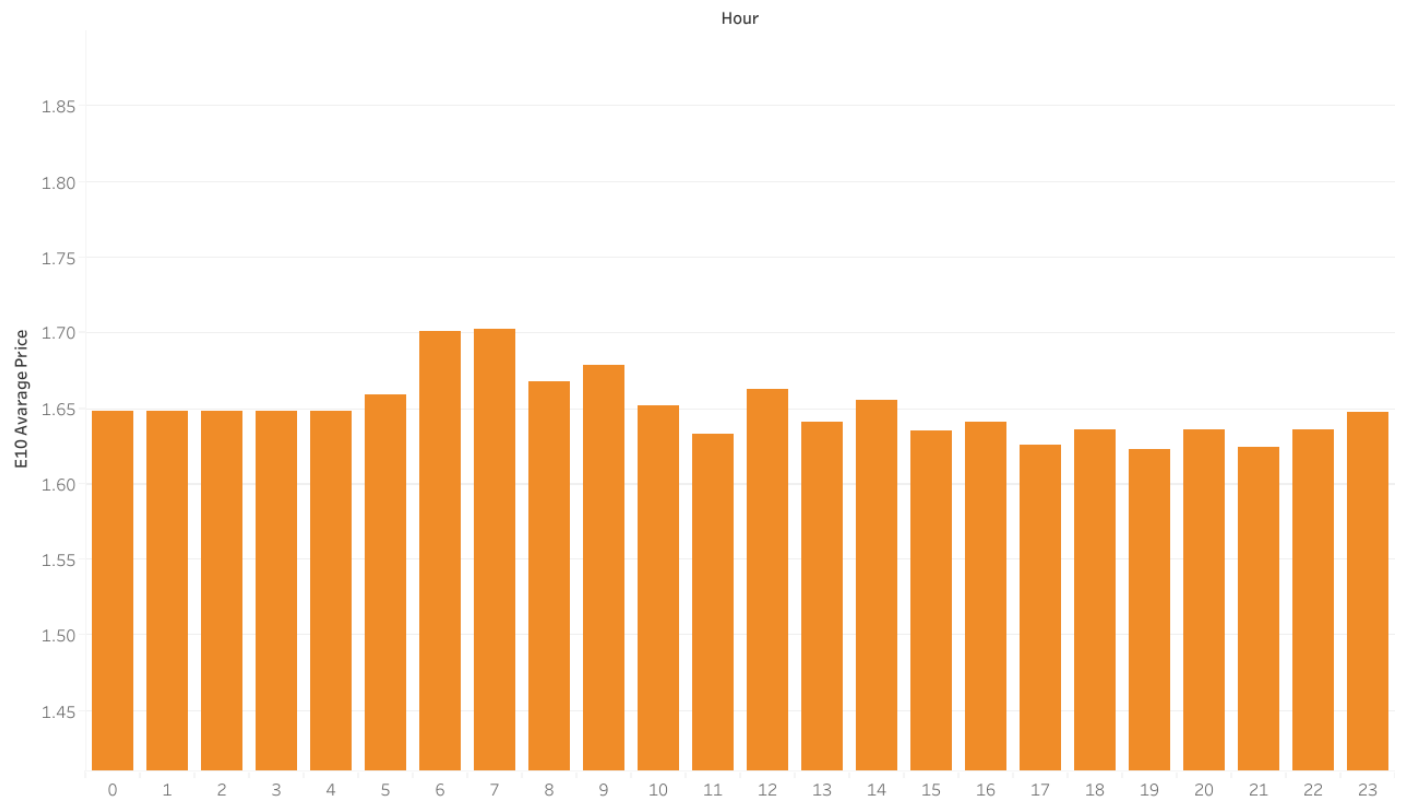
Average diesel price per hour of the day



Diesel

- **Highest prices:** 6-7 AM (1.67 euros)
- **Lowest:** 19 PM (1.56 euros)
- Difference between peak and minimum is approximately 0.10 euros

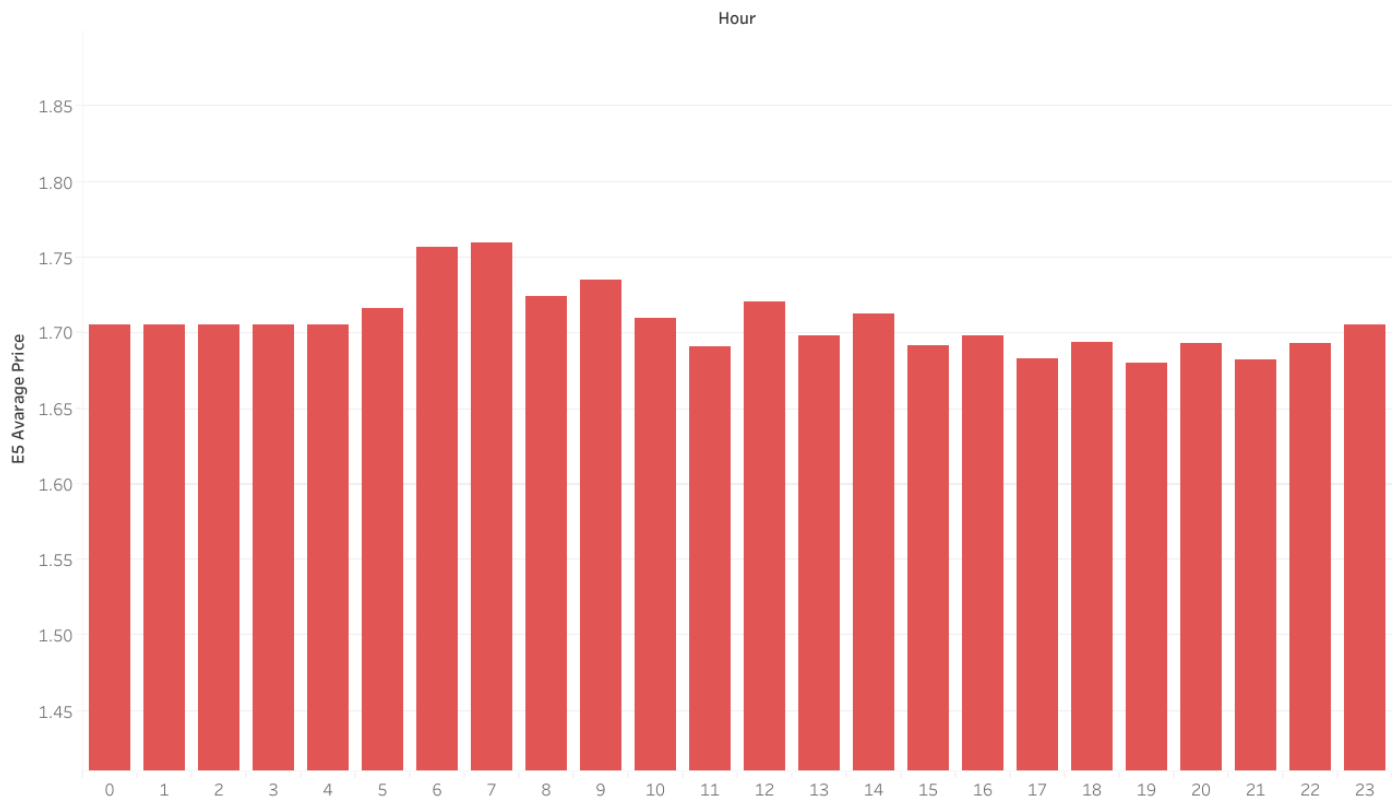
Average E10 price per hour of the day



E10

- **Peak:** 6-7 AM (1.70 euros)
- **Minimum:** evening hours 5-9 PM (1.62-1.63 euros)
- The price ranges from 1.63 to 1.70 euros (range is 0.07 euros)

Average E5 price per hour of the day



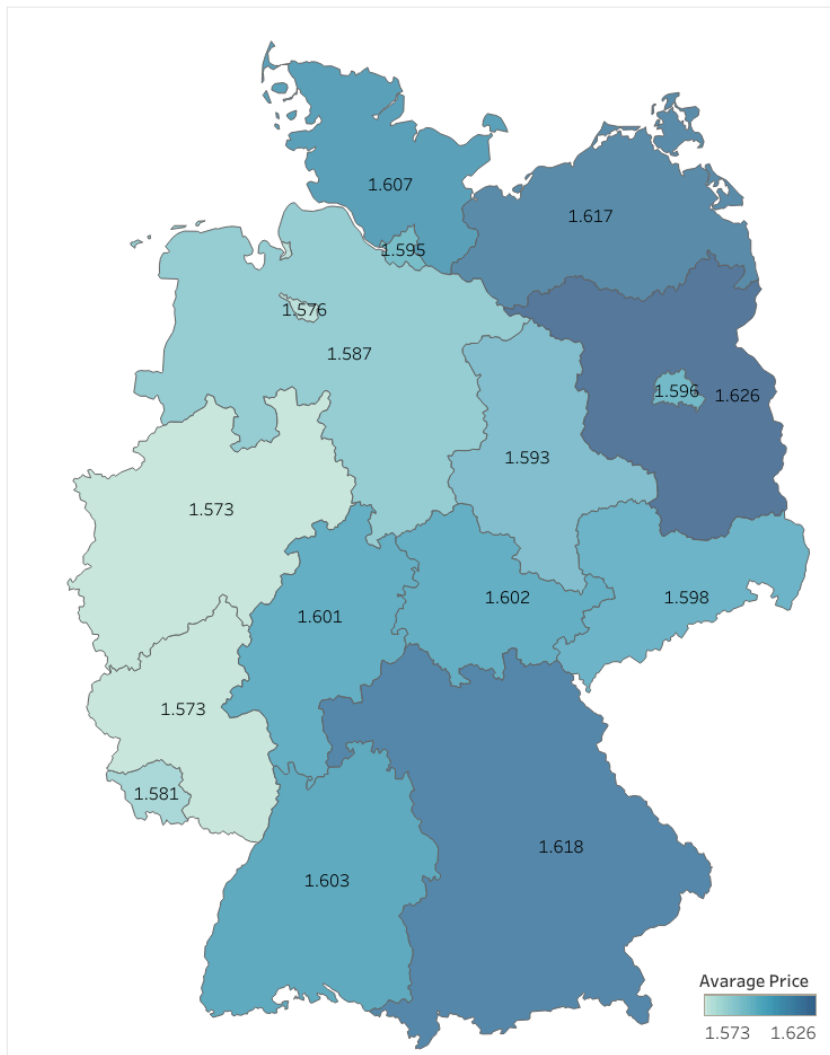
E5

- **Peak hours:** 6-7 AM (1.76 euros), 9 AM and 12 AM
- **Lowest prices:** 5-9 PM (1.68-1.69 euros)
- The price ranges from 1.68 to 1.76 euros (range is 0.08 euros)

Regional Price Differences

All data in subsequent 3 maps are aggregated by the average refueling price in each state during December 1 - December 31, 2025.

Average **diesel** price at stations in each state



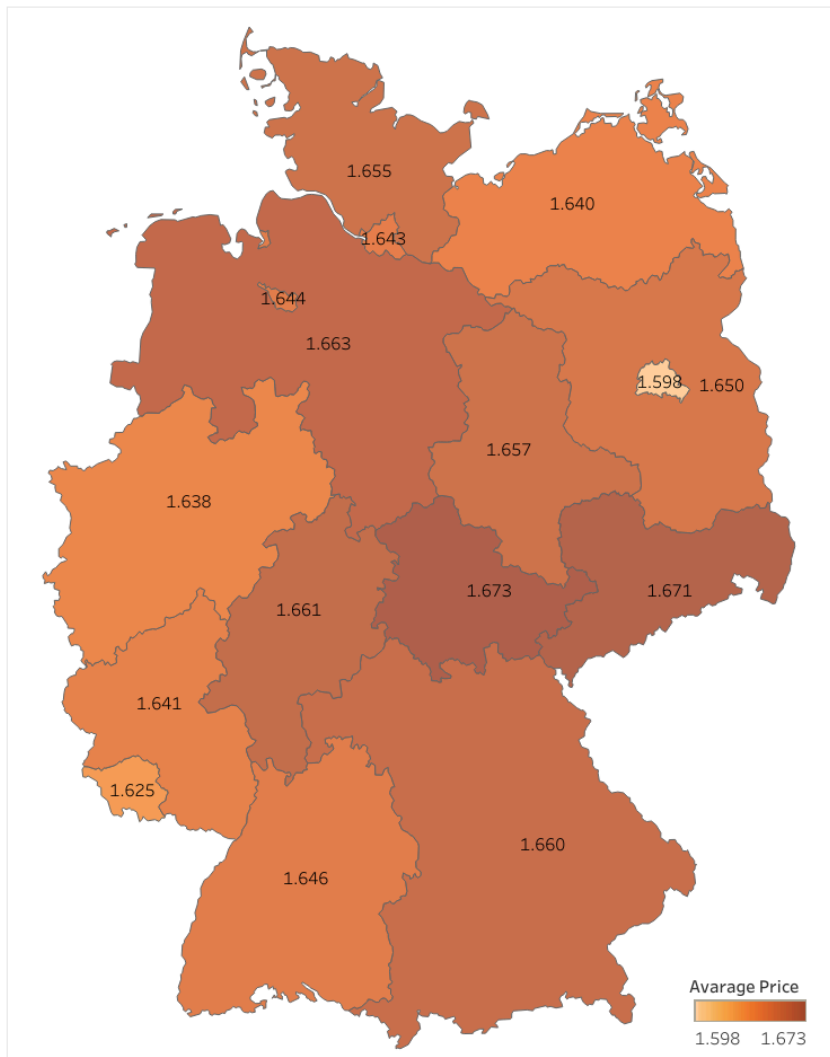
Diesel Fuel

The highest average price for **diesel** is in **Brandenburg** (1.626 €), as well as in **Bayern**(1.618 €) and **Mecklenburg-Vorpommern** (1.617 €).

The lowest average price for diesel is registered in states: **Rheinland-Pfalz**(1.573 €), **Nordrhein-Westfalen**(1.573 €) and state-city **Bremen**(1.576 €).

It can be noted that western states are slightly cheaper than eastern ones (**the difference is ~5 cents/liter**).

Average E10 price at stations in each state



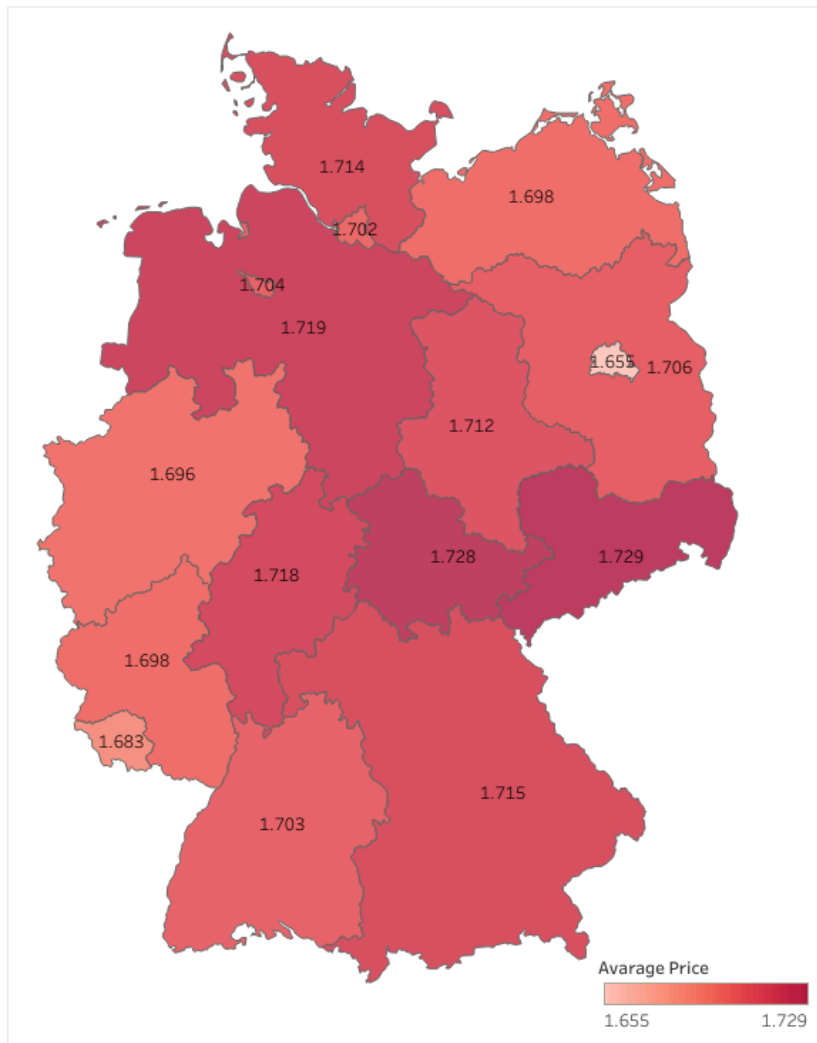
E10 (Gasoline with 10% Bioethanol)

The highest average price for **E10** is in **Thüringen** (1.673 €), **Sachsen** (1.671 €) and **Niedersachsen** (1.663 €).

The lowest price for E10, surprisingly in **Berlin**(1.598 €), and also in **Saarland** (1.598 €)

Prices are slightly higher in the east than in the west, but there are exceptions. The difference between the lowest and highest prices is ~7 cents/liter.

Average E5 price at stations in each state



E5 (95 Octane Gasoline)

The highest average price for E5 is in **Sachsen** (1.729 €), **Thüringen** (1.728 €) and **Niedersachsen** (1.719 €).

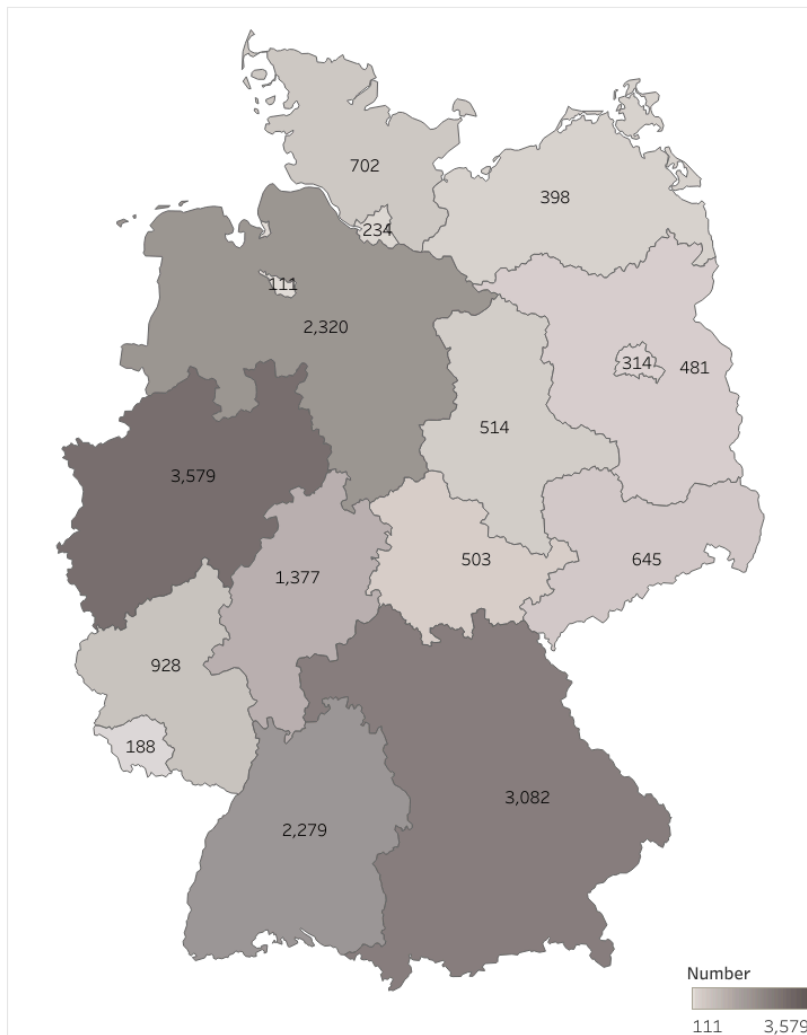
The lowest price for E10, in **Berlin** (1.655 €) too, and also in **Saarland** (1.598 €).

Prices are slightly higher in the east than in the west, but there are exceptions. The difference between the lowest and highest prices is ~7 cents/liter, the same as for E10.

Prices for E5 in each region behave in much the same way as prices for E10. **Prices for E5 are always 3-4% higher than for E10.**

Gas Station Network Overview

Number of gas stations in each state



This map demonstrates the distribution of gas stations across German federal states. The highest concentration is observed in:

- **North Rhine-Westphalia** (3,579 stations) - the largest number of gas stations, corresponding to the highest population density
- **Bavaria** (3,082 stations) - second highest
- **Baden-Württemberg** (2,279 stations)
- **Lower Saxony** (2,320 stations)

The lowest number of stations is registered in states: Saarland (398), Hamburg (234) and Bremen (111).

Conclusions:

Monthly Dynamics

- Diesel, E5, and E10 exhibit synchronized price movement.
- Fuel prices fluctuate within a narrow range of approximately 0.05 €.
- The month starts with a high price, declines, and rises again in the last week.
- Highest price on December 8, lowest price on December 24.

Daily Price Dynamics

- The highest prices are observed at 6-7 AM.
- The cheapest prices are available between 5 and 9 PM.
- Prices vary between 0.05 € and 0.10 € throughout the day.

Regional Price Differences

- In general, prices in the east are slightly higher than in the west.
- Diesel prices differ slightly from gasoline prices, i.e., in some regions, diesel prices are higher when gasoline prices are lower, and vice versa.
- In the case of gasoline, E5 prices are always ~10 cents higher than E10 prices in the same region.