# Statistical Analysis and Visualization of Input-Data
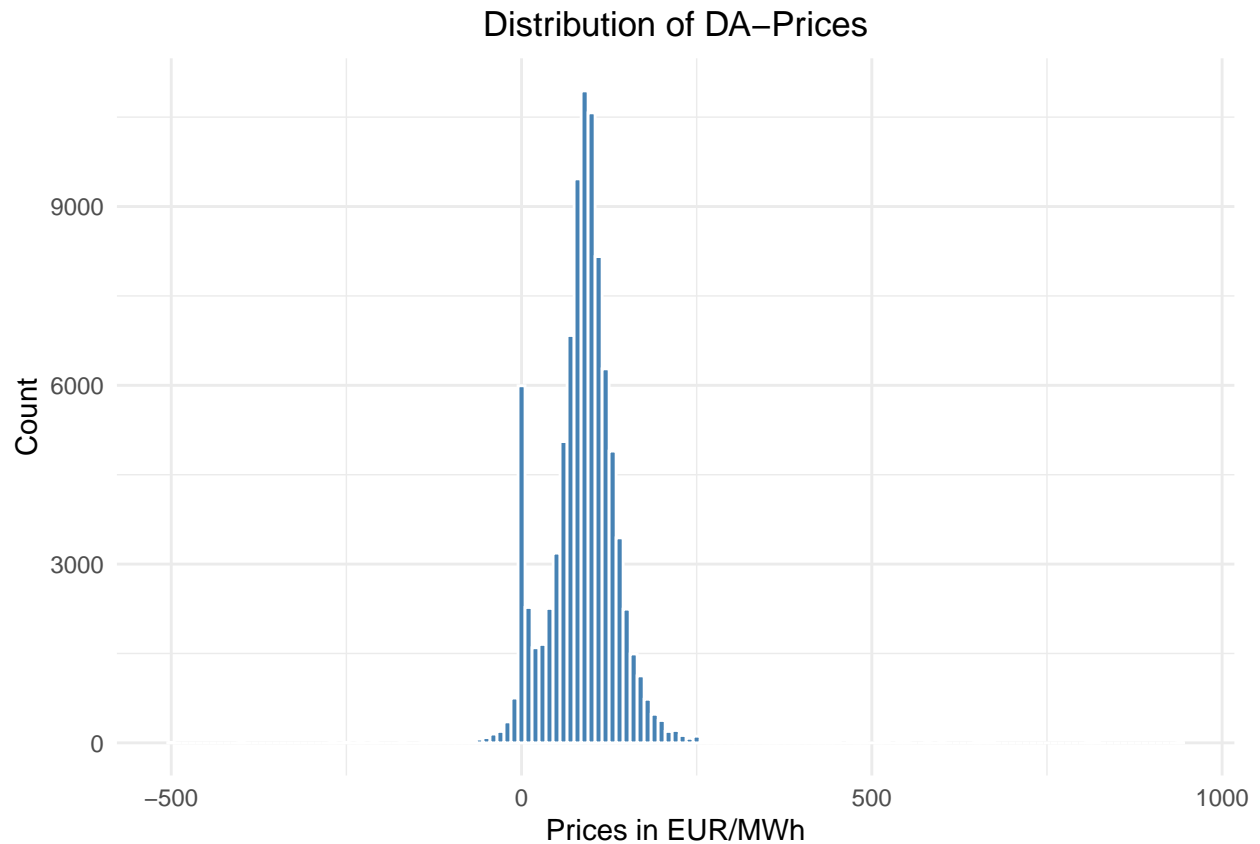
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2025-08-19

First impression of dataset

```
##                    datetime DA.Preis.in.Euro.MWh
## 1 2023-01-01 23:00:00                      57.91
## 2 2023-01-01 23:15:00                      57.91
## 3 2023-01-01 23:30:00                      57.91
## 4 2023-01-01 23:45:00                      57.91
## 5 2023-01-02 00:00:00                      51.67
## 6 2023-01-02 00:15:00                      51.67
```

Histogramm: First impression of value distribution



–> wenige Ausreißer

Summary Statistics

```
##      datetime                     DA.Preis.in.Euro.MWh
##  Min.    :2023-01-01 23:00:00   Min.    :-500.00
##  1st Qu.:2023-08-29 10:56:15    1st Qu.:  63.92
##  Median :2024-04-24 22:52:30    Median :  90.21
##  Mean    :2024-04-24 22:52:06   Mean    :  87.40
##  3rd Qu.:2024-12-20 09:48:45    3rd Qu.: 113.99
##  Max.    :2025-08-16 21:45:00   Max.    : 936.28
##  NA's    :12


##   Missing_Values Negatives Null_Values Positives
## 1              0      5356         588     87196
```

–> Keine Missing Values im Dataset



DA–Prices over Time