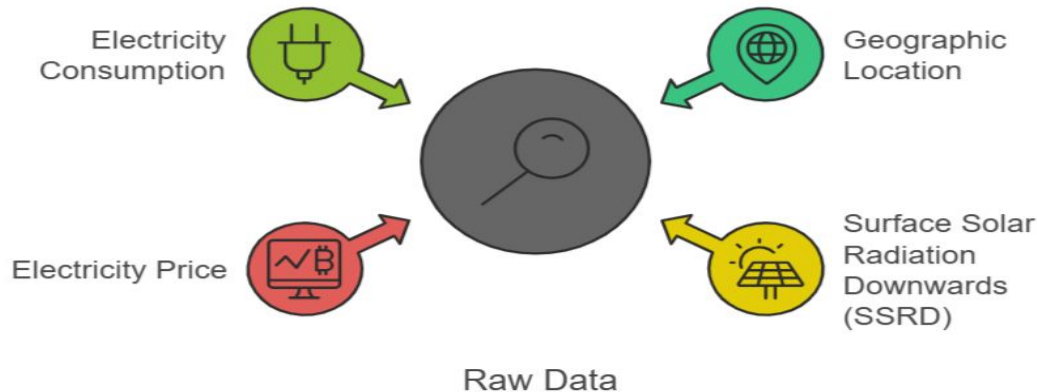


Solar Energy Efficiency: A Comparative Analysis Based on Location and Household Usage



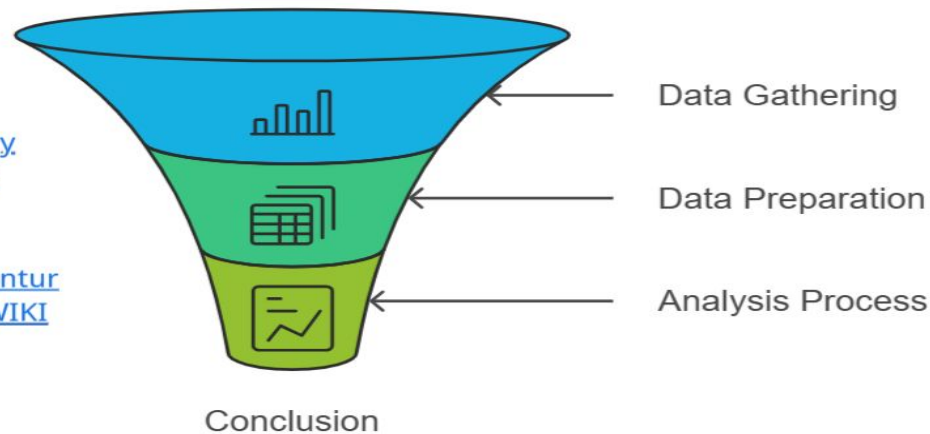
By Anna and Helen

Data Analysis Workflow



Reference :

- ⚡ [Solar Panel Area -- Power Technology](#)
- ⚡ [Solar Panel Efficiency -- Energy Sage](#)
- ⚡ [Electricity Consumption -- Destatis](#)
- ⚡ [Electricity Price -- Destatis](#)
- ⚡ [Feed-in Tariff Rate -- Bundesnetzagentur](#)
- ⚡ [Cities in Germany by Population -- WIKI](#)
- ⚡ [SSRD -- Cds Climate Copernicus](#)



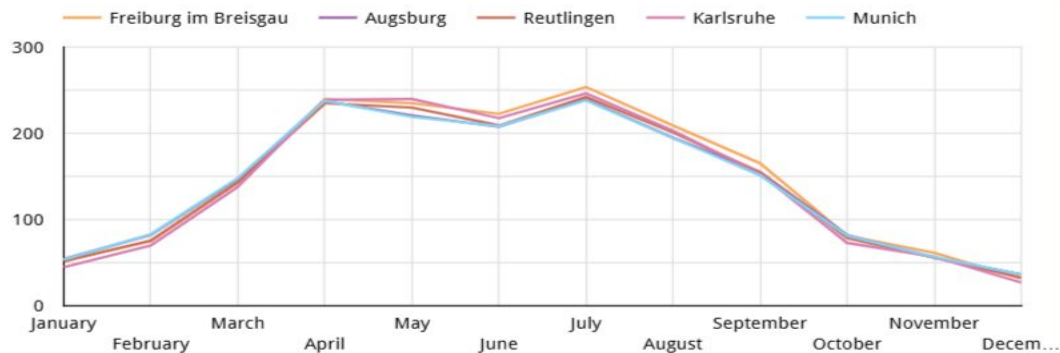
City



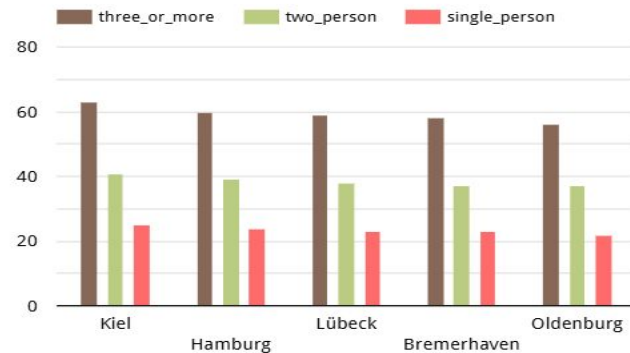
Household Type



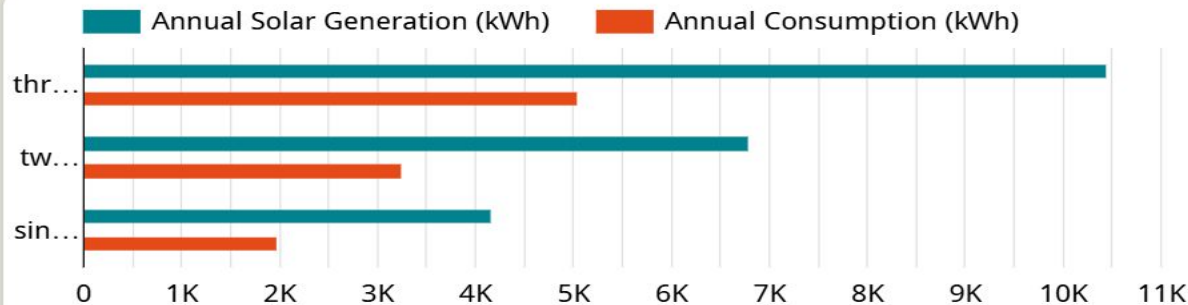
Monthly Solar Radiation Trend (kWh/m²)



Panel Area (m²)



Comparison of Solar Generation and Household Consumption



Total Annual Benefit(€)

1,324.37

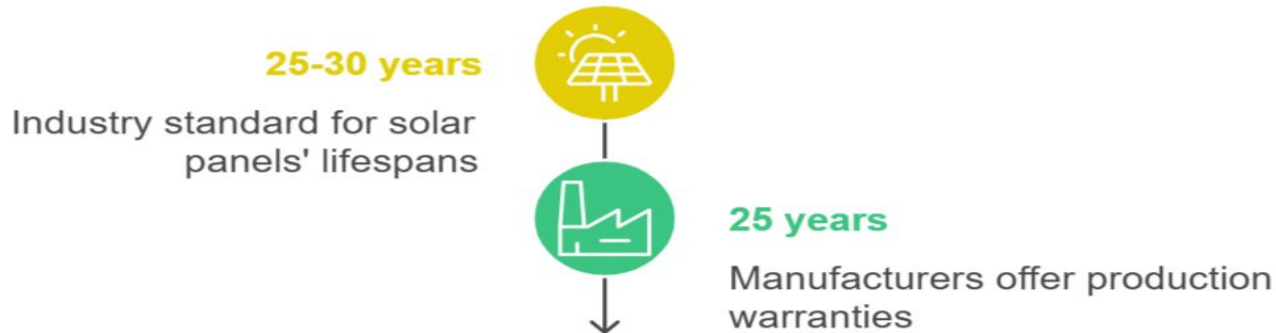
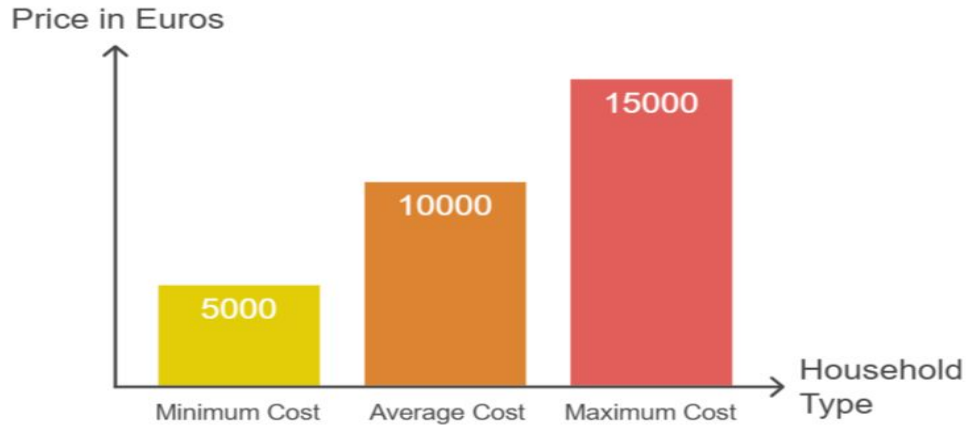
Saving from Self-Consumption(€)

1,027.7

Feed-In Earnings(€)

296.68

Solar System Installation Overview



Conclusion Highlights

