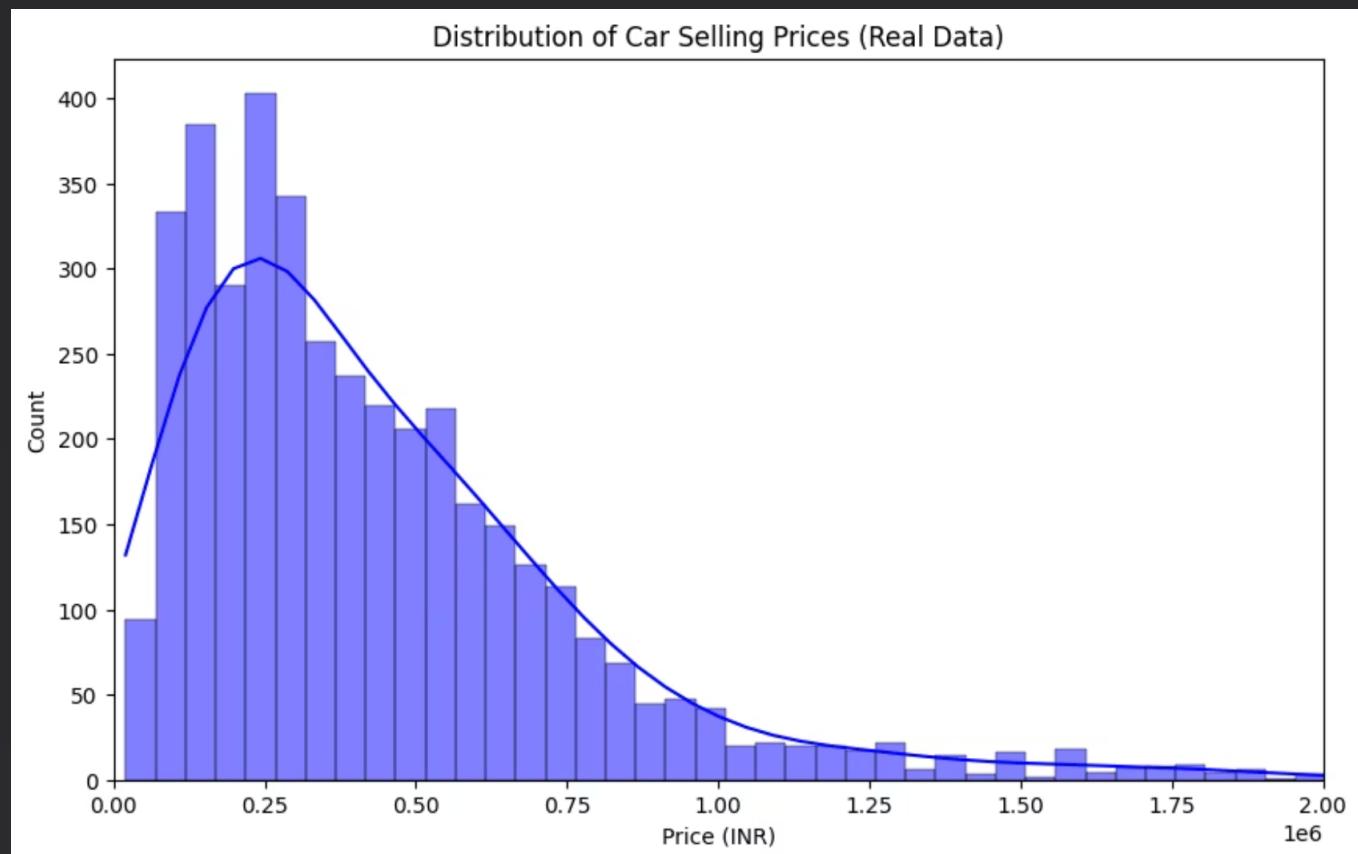




# Analysis of Factors Affecting Used Car Selling Prices

# Overview of the Dataset

- **Total Records:** 4,134 cars (after cleaning).
- **Features:** Year, KM Driven, Fuel Type, Transmission, Owner, Seller Type.
- **Target Variable:** Selling Price.
- **Key Insight:** The data is skewed; most cars are affordable, with a few luxury outliers.



# Data Cleaning Strategy

Ensuring data accuracy for reliable analysis.



**Spelling Corrections:** Corrected spelling errors in 'Fuel' and 'Seller Type' fields to standardize entries.



**Creating "Car Age" Feature:** Calculated "Car Age" from the "Year" field to provide an important temporal metric.

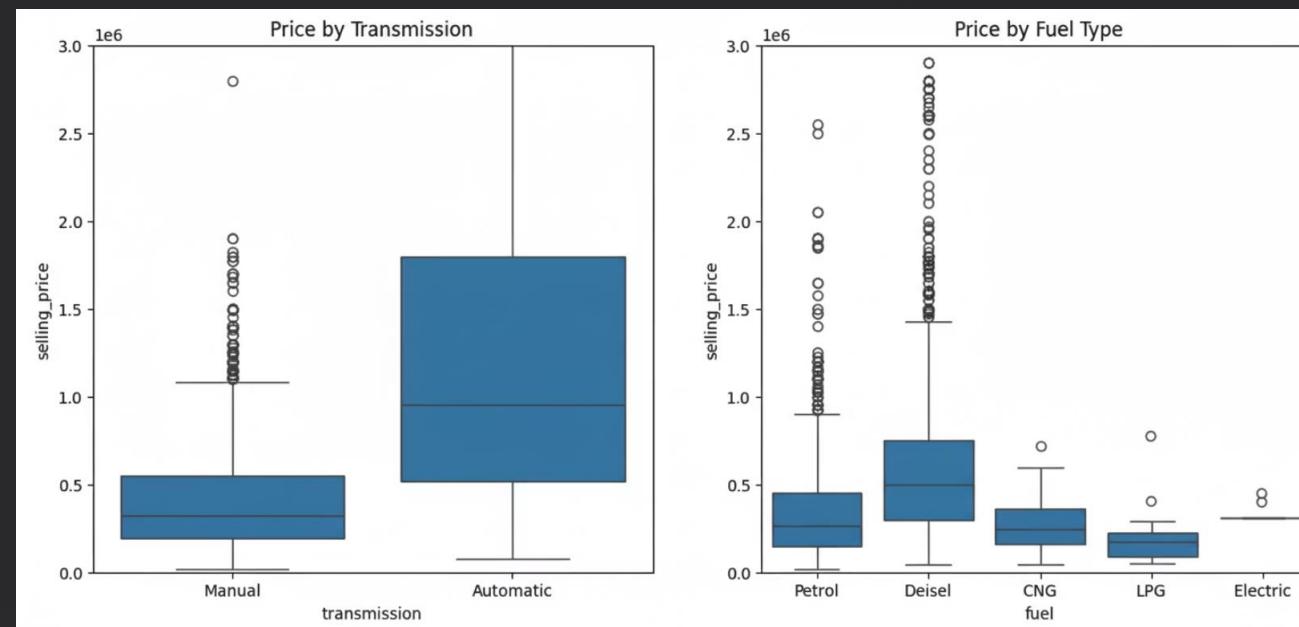


**Handling Missing Values:** Used Mode or Median imputation for missing values to ensure data completeness.



**Removing Outliers:** Eliminated extreme outliers to ensure analysis accuracy and avoid misleading effects.

# Key Results: Transmission and Fuel Type



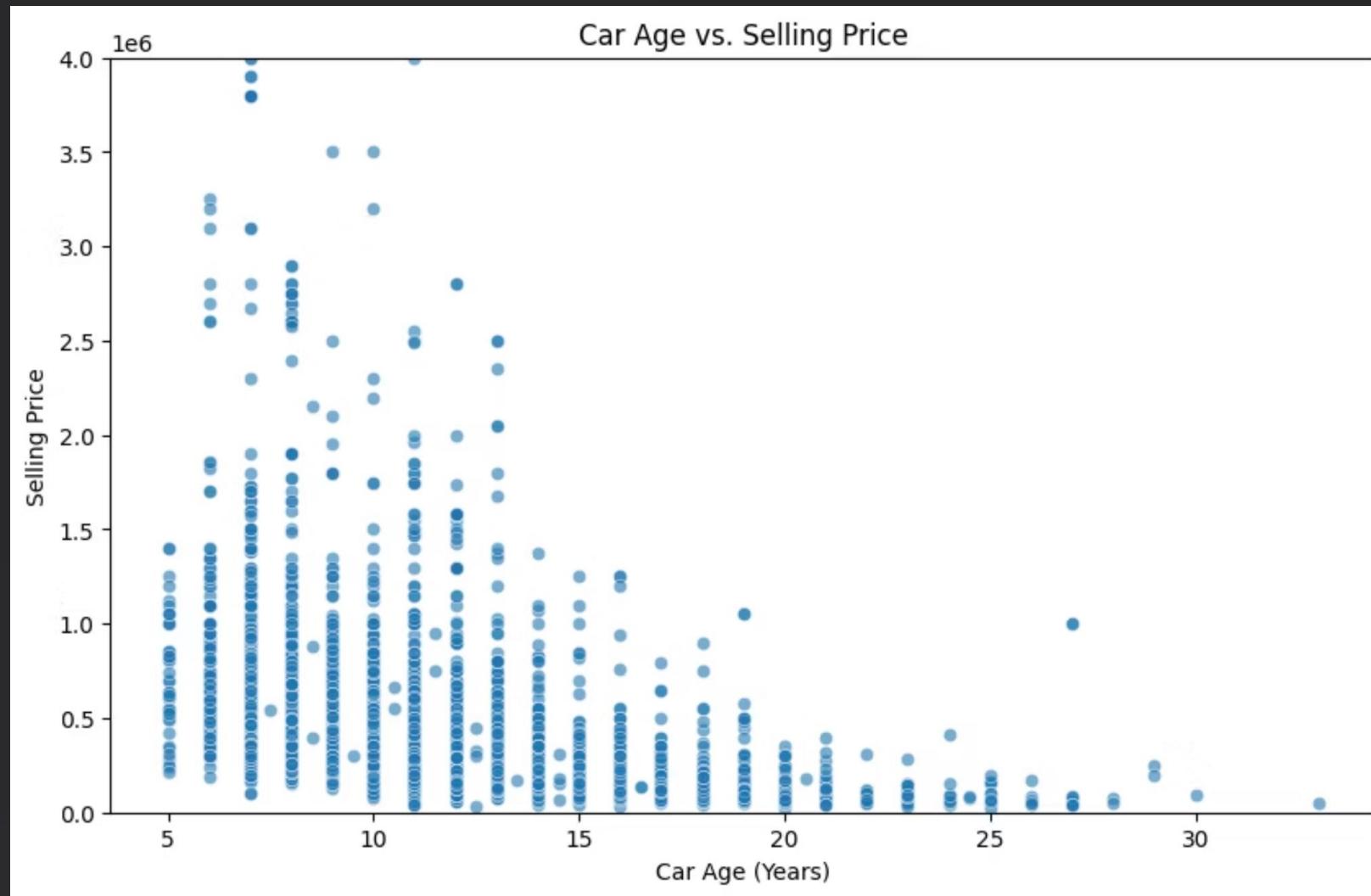
## Automatic and Diesel Cars are the Most Expensive

Our analysis reveals that cars with automatic transmission and those running on diesel represent the most expensive segments in the used car market. Automatic Transmission: Reflects comfort and modern technology. Diesel Fuel: Indicates fuel efficiency and performance power.

# Key Results:(Depreciation)

How does car age affect its price?

The data shows a sharp decline in car value as its age increases. This trend confirms the importance of age as a major factor in used car pricing.





# Factors Influencing Car Price

**Fuel Type:** Diesel and petrol are the most common, with price variations based on efficiency.

**Kilometers Driven:** The lower the mileage, the higher the car's value.

**Transmission:** Automatic cars are usually more expensive than manual ones.

**Car Age:** Newer cars retain higher value for longer.

# Recommendations for Sellers and Buyers

Use our analysis to get the best deal.

**For Sellers:** Focus on low mileage and recent manufacturing years when marketing. Regular maintenance and keeping service records enhances value.



**For Buyers:** For limited budgets, look for manual petrol cars over 5-7 years old. Consider high-mileage cars if maintenance is good.





# Summary of Key Insights



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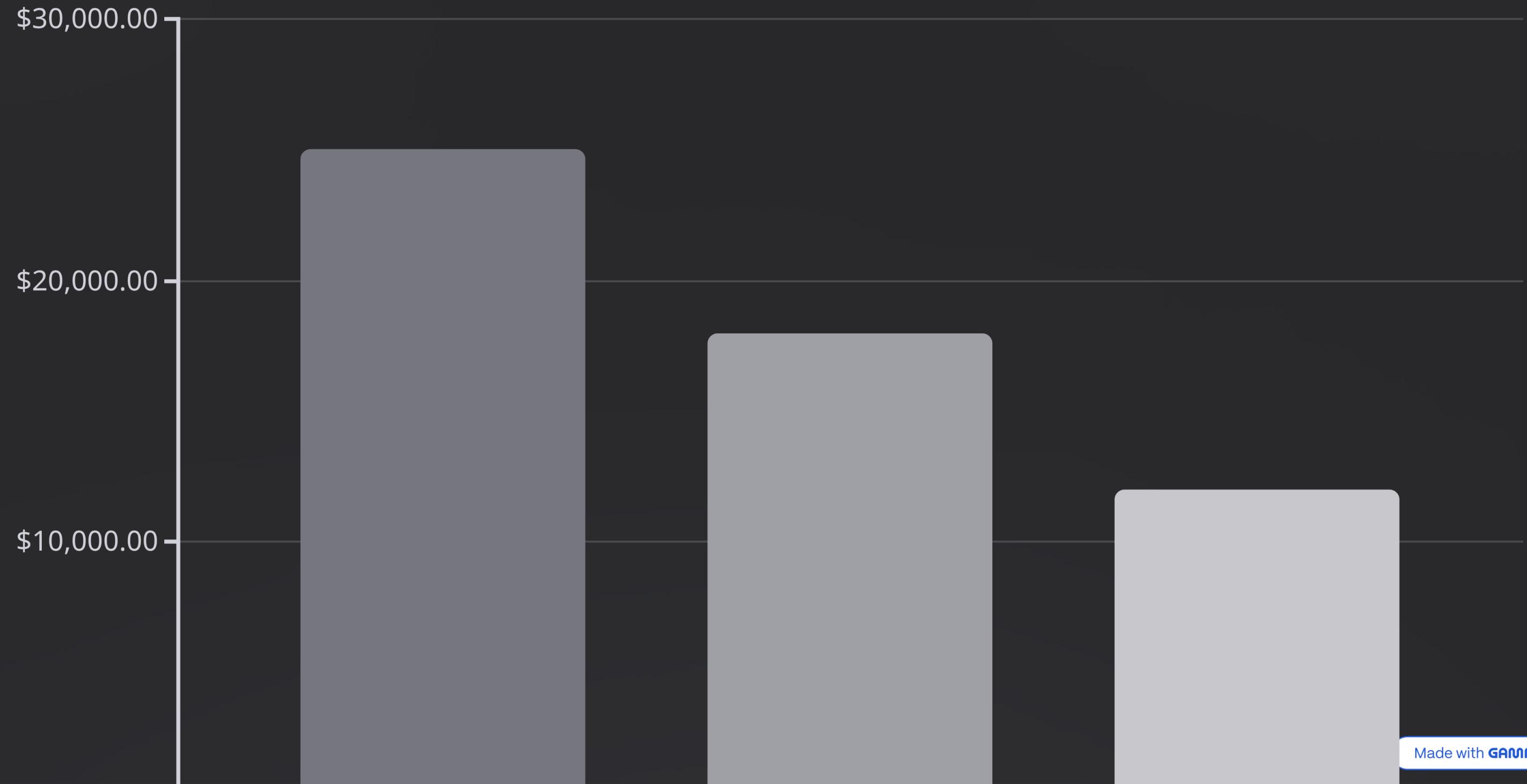
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**Impact of Specifications:**  
Car characteristics such as transmission and fuel type significantly affect selling price.

**Continuous Depreciation:** Cars lose value quickly with age, making purchases in older age categories more economical.

**Market Targeting:** Sellers and buyers can use these insights to make informed decisions in the used car market.

# Analysis of Fuel Types and Their Impact on Prices



Thank YouWe look forward  
to your questions and  
comments.

