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# UNA Maui Energy Data Analysis - Simplified
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Set styling for visualization
sns.set_style('whitegrid')
plt.rcParams['figure.figsize'] = (10, 6)

# Load your CSV file - UPDATED with the correct filename
df = pd.read_csv('../input/una-maui-energy/una_maui_energy_data_2025.csv - Sheet1.csv')

# Display the data
print("Dataset Preview:")
print(df)

# Calculate the average Green Infrastructure Fee
avg_green_fee = df['Green Infrastructure Fee'].mean()
print(f"\nAverage Green Infrastructure Fee: ${avg_green_fee:.2f}")

# Create a bar chart for Green Infrastructure Fee by month
plt.figure(figsize=(10, 6))
sns.barplot(x='Month', y='Green Infrastructure Fee', data=df, palette='viridis')
plt.title('Green Infrastructure Fee by Month (2025)', fontsize=16)
plt.xlabel('Month', fontsize=14)
plt.ylabel('Fee Amount ($)', fontsize=14)
plt.axhline(y=avg_green_fee, color='r', linestyle='--',
            label=f'Average: ${avg_green_fee:.2f}')
plt.legend()
plt.tight_layout()

# Save and show the graph
plt.savefig('green_fee_by_month.png')
plt.show()

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Dataset Preview:

	Year	Month	Green Infrastructure Fee	Total Bill
0	2025	Jan	1.21	459.23
1	2025	Feb	1.31	404.64
2	2025	March	1.21	441.58

Average Green Infrastructure Fee: \$1.24

