Proposed Solution:

1. System Design:
   - Define the architecture and components of the automated system.
   - Determine how data will be collected, stored, and processed.

2.Data Collection:
   - Identify sources of energy consumption data (e.g., IoT devices, sensors).
   - Ensure data accuracy and reliability.

3. Data Analysis:
   - Develop algorithms/models to analyze energy consumption data.
   - Identify patterns, trends, or anomalies.

4. Visualization:
   - Create user-friendly visualizations (dashboards, reports).
   - Enhance decision-making through clear representation of energy consumption metrics.

5. Decision Support:
   - Implement features for decision-making support.
   - Include alerting systems, efficiency improvement recommendations, and scenario analysis tools.

6. Scalability:
   - Ensure the system can scale to manage energy consumption data across various sectors.
   - Make it adaptable to different environments and requirements.

7. User Training and Support:
   - Provide training for users interacting with the system.
   - Ensure the system is intuitive and user-friendly.

8. Security:
   - Implement robust security measures to protect data integrity and confidentiality.
.