While I can't perform a comprehensive literature survey, I can provide you with a brief overview of some key research areas and topics related to a reliable energy consumption analysis system for energy-efficient appliances. These areas can serve as a starting point for your literature review:

1. Energy Consumption Monitoring and Analysis:
   * Techniques for collecting and monitoring energy consumption data from energy-efficient appliances.
   * Methods for data preprocessing, cleansing, and filtering to improve data quality.
   * Algorithms and models for analyzing energy consumption patterns and identifying anomalies or inefficiencies.
   * Approaches for energy disaggregation to separate appliance-level energy consumption from aggregated measurements.
2. Energy Efficiency Evaluation:
   * Metrics and indicators for evaluating energy efficiency in appliances and households.
   * Techniques for benchmarking energy consumption and efficiency against industry standards or similar households.
   * Models and algorithms for estimating potential energy savings and optimizing energy usage.
3. Predictive Modeling and Forecasting:
   * Machine learning and data mining techniques for predicting energy consumption patterns and trends.
   * Time-series analysis and forecasting methods for short-term and long-term energy consumption predictions.
   * Integration of external factors such as weather data or occupancy patterns for accurate energy forecasting.
4. Real-time Data Analytics and Visualization:
   * Real-time stream processing and analytics techniques for processing and analyzing high-frequency energy consumption data.
   * Visualization methods and tools for presenting energy consumption patterns and insights to users.
   * User interfaces and interactive dashboards for monitoring and managing energy consumption in real-time.
5. Integration with Smart Grid and IoT:
   * Integration of energy consumption analysis systems with smart grid infrastructure and smart meters.
   * Leveraging Internet of Things (IoT) technologies for real-time data collection, communication, and control of energy-efficient appliances.
   * Energy management techniques and protocols for demand response programs and load balancing.
6. Energy Cost Analysis and Management:
   * Models and algorithms for calculating and optimizing energy costs based on real-time consumption data and utility tariffs.
   * Techniques for cost analysis, budgeting, and tracking of energy expenses.
   * Strategies for demand-side management and cost-saving recommendations.
7. Integration with Renewable Energy:
   * Integration of renewable energy generation data into energy consumption analysis systems.
   * Models and algorithms for analyzing the impact of renewable energy sources on overall energy consumption and cost savings.
   * Techniques for optimizing energy usage and maximizing the utilization of renewable energy.
8. Security and Privacy:
   * Security mechanisms and protocols for protecting energy consumption data and ensuring privacy.
   * Privacy-preserving data aggregation and analysis techniques.
   * Techniques for secure data transmission, authentication, and access control.

When conducting your literature review, consider searching academic databases, research journals, conference proceedings, and relevant industry publications. Also, explore research papers, articles, and case studies related to smart homes, energy management systems, IoT, and energy efficiency. These resources should provide valuable insights into existing research, methodologies, and best practices for a reliable energy consumption analysis system for energy-efficient appliances.