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| Use Case: *Record energy generation and consumption* |
| ID: *1* |
| Goal: *The system records energy generation and consumption* |
| Primary actor: *System* |
| Secondary actor(s): *Central Monitoring Unit* |
| Preconditions:  *1. The System is operational*  *2. The Central Monitoring Unit is operational* |
| Postconditions: *1. The System gets data from Central Monitoring Unit* |
| Main flow:  *1. The system requests for real time energy generation and consumption data from Central Monitoring Unit.*  *2. The Central Monitoring Unit sends response with energy data*  *3. The system receives response with energy data* |
| Alternative flows:  *3a. The system does not receive response with energy data*  *1. Return to main flow step 1* |

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| Use Case: *Display Recommendations* |
| ID: *2* |
| Goal: *The System displays energy usage recommendations* |
| Primary actor: *User* |
| Secondary actor(s): *Backend Server* |
| Preconditions:  *1. The Backend server is operational*  *2. The Backend server has generated recommendations* |
| Postconditions: *1. The system displays energy usage recommendations* |
| Main flow:  *1. The User accesses recommendations tab*  *2. The system sends request to the Backend for recommendations*  *3. The Backend server sends response with data*  *4. The system receives response from Backend server*  *5. The system formats and displays energy usage recommendations* |
| Alternative flows:  *4a. The system does not receive response from Backend server*  *1. Return to main flow step 2* |

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| Use Case: *Display Energy Data Charts* |
| ID: *3* |
| Goal: *The system displays energy data charts* |
| Primary actor: *User* |
| Secondary actor(s): *Backend Server* |
| Preconditions:  *1. The Backend server is operational* |
| Postconditions: *1. The system displays energy data charts* |
| Main flow:  *1. The system receives request from user*  *2. The system requests Backend server for energy data*  *3. The Backend server sends response with energy data*  *4. The system receives response with energy data*  *5. The system analyses energy data and creates charts*  *6. The system displays energy data charts* |
| Alternative flows:  *4a. The system does not receive response with energy data*  *1. Return to main flow step 2* |

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| Use Case: *Display Daily Summary Report* |
| ID: *4* |
| Goal: *The system displays daily summary report* |
| Primary actor: *User* |
| Secondary actor(s): *Backend Server* |
| Preconditions:  *1. The Backend server is operational*  *2. The Backend server has recorded energy data* |
| Postconditions: *1. The system displays Daily Summary Report* |
| Main flow:  *1. The system receives request from user*  *2. The system requests backend server for energy data*  *3. The Backend server sends response with energy data*  *4. The system receives response with energy data*  *5. The system analyses energy data and creates Summary Report*  *6. The system displays Daily Summary Report* |
| Alternative flows:  *4a. The system does not receive response with energy data*  *1. Return to main flow step 2* |