To construct a predictive model for forecasting future power consumption, I'll follow these steps:

1. Data Exploration: First, I'll explore the dataset to understand its structure, features, and any potential cleaning or preprocessing that might be necessary.
2. Data Cleaning and Preprocessing: Based on the exploration, I'll clean and preprocess the data, which may include handling missing values, converting data types, and normalizing or scaling the data.
3. Feature Selection: I'll identify which features are most relevant to predicting power consumption.
4. Model Selection: I'll choose a suitable machine learning model or models for forecasting. This might include time series models like ARIMA, machine learning models like Random Forests, or deep learning models like LSTM.
5. Model Training: I'll train the model on the preprocessed data, tuning any hyperparameters as necessary.
6. Model Evaluation: I'll evaluate the model's performance using appropriate metrics, such as Mean Absolute Error (MAE), Root Mean Squared Error (RMSE), or Mean Absolute Percentage Error (MAPE).
7. Forecasting: Finally, I'll use the trained model to make forecasts on future data points.