



**ENERGY STAR Automated Benchmarking Initiative:
Hosting the US EPA's Energy Performance Rating System**

**Web Services Available for Submitting and Receiving Data and
Associated Response Metrics**

February 2005

Due to the growth and success of the Automated Benchmarking Pilot Initiative in 2004, EPA is now concentrating on moving the automated benchmarking initiative from pilot to an anticipated formal launch of this effort in late-2005. Part of this launch will include enhanced Web services. These two new Web services are described briefly below along with the associated metrics that are provided to hosts when the specific Web service is used.

Data Management Service (DMS)

The Data Management Service (DMS) allows participant hosts to update, edit, and delete facility data.

DMS Response Metrics Provided to Hosts

- **[Building] ID** (echo) – To identify particular Facility: The unique identifier provided by the Participant Host used to identify a particular Facility. This value, originally provided by the Participant Host, is simply returned as the same value in the response file.
- **periodEnding** (as requested by user) – The current month and year ending date requested by the user to determine the single point-in-time Rating. This value, originally provided by the Participant Host, is simply returned as the same value in the response file.
- **totalFloorSpace** – Total floor area, expressed in square feet for a given space within a facility.
- **rating** – The Facility Rating generated for the particular Month and Year End Dates if provided in the request file. If a Period Ending Date was not provided, the Facility Rating provided is the current Facility Rating.
- **errorCode** – Unique identifier used to identify a particular error.
- **errorText** – Text description of the error.
- **kbtuTotalIWN** – The weather-normalized annual energy consumption in a Facility.
- **kbtuTotalINWN** – The non-weather normalized annual energy consumption in a Facility
- **kbtuSFWN** – The weather-normalized annual energy intensity, or energy consumption per square foot, in a Facility.
- **kbtuSFNWN** – The non-weather normalized annual energy intensity, or energy consumption per square foot, in a Facility.
- **useDefault** – Flag to indicate if a Space is using default values.

Rating Exchange Service (RES)

The Rating Exchange Service (RES) provides participant hosts the ability to request multiple ratings for multiple time periods.

RES Response Metrics Elements

- **[Building] ID** (echo) – To identify particular Facility: The unique identifier provided by the Participant Host used to identify a particular Facility. This value, originally provided by the Participant Host, is

simply returned as the same value in the response file.

- **periodEnding** (as requested by user) (echo): The Period Ending date relating to the set of metrics. This value, originally provided by the Participant Host, is simply returned as the same value in the response file.
 - month – The ending month for which to calculate a range of metrics. Month must be used in conjunction with Year.
 - year – The ending year for which to calculate a range of metrics. Year must be used in conjunction with Month.
- **rating** – The Facility Rating generated for the Period Ending date.
- **kbtuTotalIWN** – The weather-normalized annual energy consumption in a Facility.
- **kbtuTotalNWN** – The non-weather normalized annual energy consumption in a Facility
- **kbtuSFWN** – The weather-normalized annual energy intensity, or energy consumption per square foot, in a Facility.
- **kbtuSFNWN** – The non-weather normalized annual energy intensity, or energy consumption per square foot, in a Facility.
- **KbtuSFScoreOf50** – The non-weather normalized site energy intensity for this particular Facility for a Rating of 50.
- **KbtuSFScoreOf75** – The non-weather normalized site energy intensity for this particular Facility for a Rating of 75.
- **useDefault** – Flag to indicate if a Facility is using default values.
- **totalFloorSpace** – The total floorspace for the entire Facility. The Total Floor Space is defined as the sum of all floorspace in the building, not including Garages or Open Parking Lots.
- **applyForLabelEligible** – Flag to indicate if a Facility is eligible for a Label or not.
 - The Facility rating (score) must be at least 75.
 - None of the Spaces in the Facility can be using default values for user-entered attributes.
 - If Facility has been previously approved for a Label, one year must elapse before the facility can be eligible again.
- **yearLabeled** – The year or years in which the Facility was Labeled. Will only display if a Facility has been labeled.
 - If the Facility was never labeled, will not display.
- **lastLabeledDate** – the period ending date associated with the last (i.e. most recent) Label received.
- **lbsCO2Emissions** – the estimated CO₂ emissions for this building, based on its energy use.