



**Pacific Northwest**  
NATIONAL LABORATORY

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# Large Commercial Buildings: Re-tuning for Efficiency

## Collect Initial Building Information

# Six Primary Steps of Re-Tuning

- ▶ **Collecting Initial Building Information:** Basic building information
- ▶ **Pre-Re-Tuning Phase:** Trend-data collection and analysis
- ▶ **Building Walk Down:** Getting to know the building
- ▶ **Re-Tuning:** Identifying and correcting operations problems
- ▶ **Post Re-Tuning:** Reporting re-tuning findings
- ▶ **Savings Analysis:** Determining and reporting the impacts



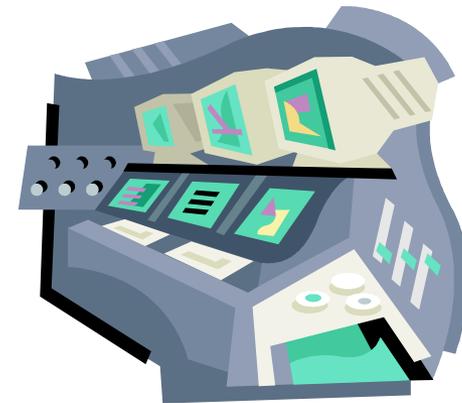


# Information to Collect

- ▶ Overall building geometry
  - Approximate gross square feet
  - Number of floors
  - General building shape
- ▶ Type of heating ventilation and air conditioning (HVAC) system(s)
- ▶ Approximate number of zones
- ▶ Approximate number of each major type of equipment
  - Boilers
  - Chillers
  - Air handlers
- ▶ Type of building automation system (manufacturer, model, version)

# Collecting Basic Building Information

- ▶ If you manage the building, you probably have all or most of this information at your fingertips
- ▶ Gather information to guide selection of trend logs to set up in the next phase
- ▶ Determine the overall design of the building and its mechanical systems





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*Environmental Sciences Division*

# QUESTIONS?

[www.pnnl.gov/buildingretuning](http://www.pnnl.gov/buildingretuning)