C&I 2025 Energy Efficiency Program Guidelines

Eligibility Requirements for Induction Unit Projects

Induction Air Valve (IAV): programmable control valves that are placed in perimeter induction unit inlets and converts constant air flow to more efficient variable air volume flow.

Program requirements & guidelines:

- The application submitted must provide a detailed summary of the project scope that outlines both the existing and proposed sequence of operation.
- Cut sheets for the upgraded equipment (i.e. control systems, induction air units, induction air valves and VFDs.)
- A control strategy optimization/BMS upgrade (i.e., addition of DCVs, sensors, controllers, etc.) MUST be part of scope. The BMS must integrate:
    - VFDs for the supply and return fans of the perimeter units.
    - Induction Air Valves, which regulate the air flow and control space temperatures.
- Project can be eligible for additional steam savings if proper calculations are provided. The calculations should use a 1.2 conversion factor to convert mlbs to mmbtu.
- The calculation shall not include a reduction in the system capacity or "right-sizing". Rather, the calculation shall use the proposed condition's sizing capacity to develop a counterfactual baseline and then, incorporate the control system load variation and associated calculations. This can be in the form of a custom bin analysis.

If the project installation plan is done in phases, there needs to be a clear evidence of a full building upgrade. There is a concern for balancing for partially upgraded systems. A project implementation plan outlining the scope for each phase and the estimated time of completion for the upgrades is required.

Accounting for reduction in outside air:

- Claiming savings for outside air reduction in induction air unit projects are ONLY eligible if:
    - There's sufficient documentation to support the proposed ventilation rates.
    - A detailed summary of the control system strategies that will ensure ventilation rates are maintained as fan speeds are modulated in response to the new induction unit system.
- If the proposed system is seeking to implement DCV, we will need a detailed summary of the control system strategies. Additionally, we will need details on the location and quantity of the sensors being installed to support the DCV controls. The savings claimed for implementing DCV can be incorporated into the calculations following the requirements outlined above.

Other requirements: For any custom calculations, the relationship between cooling load/heating load and outside air temperature shall be supported by an accredited industry reference (such as ASHRAE, DOE, EPA, etc.), by building specific information (trend data) or supported by a load calculation. Additionally, if the project seeks to implement DCV, the relationship between occupancy and time of day/day of the week should be supported by an industry reference such as ASHRAE 90.1-2004 User Manual Part G or by building specific information (occupancy tracking). Additional custom calculation guidelines can be found in the following link: Custom Measures.