DUCT STATIC PRESSURE RESET

No/Low Cost Opportunity

SION60
END EMISSIONS IN 60 MONTHS

OVERVIEW

Excess fan energy is often spent over pressurizing the building supply ducts when all downstream zones are satisfied. Typically, an air handling unit (AHU) will modulate the variable speed supply fan to maintain a fixed static pressure set point, which is set based on the system needs during a design day condition (very hot or very cold). Resetting this setpoint down during periods of low load will save fan energy and prolong equipment lifetimes.

CONSIDERATIONS

- Must be a variable volume system with variable speed supply fans.
- Must have direct digital control (DDC) building automation for the airside equipment.
- Programmed based on downstream variable air volume (VAV) box damper positions; customized thresholds should be investigated by a controls vendor and airside balancer.

KEY PERFORMANCE INDICATORS (KPIS)

- **1-2 point energy use intensity (EUI) reduction potential**
- **1-2% sitewide electric savings**
- **<1 year simple payback**