



John H. Stroger, Jr. Hospital of Cook County **Energy Efficiency Upgrades**

**ASHRAE
ILLINOIS CHAPTER
2016 EXCELLENCE IN
ENGINEERING AWARD**

Consultant
Primera Engineers, Ltd.
Owner
Cook County Health & Hospitals System



John G. Stroger, Jr. Hospital is the flagship facility of the Cook County Health and Hospitals System. The hospital has over 450 beds, nearly 100 outpatient clinics and a Level 1 Trauma Center.

Primera was contracted by Johnson Controls to design a heat recovery system to capture the maximum amount of available waste heat from the Stroger campus steam boiler plant flue gases and return that heat to campus systems. The recovered heat is used to increase condensate return loop temperature, preheat city makeup water to boiler plant, and preheat domestic hot water. The new system captures not only sensible but also latent heat of the boiler flue gas. The implementation of this high-efficiency, condensing heat recovery system improves boiler efficiency and provides the Hospital with significant energy savings, reducing its overall impact on the environment.