








Services

-  Energy Audit
-  LED Lighting
-  Lighting Controls
-  High-Efficiency HVAC Installation and Controls
-  Water Conservation and Water Treatment

Serenity Rehab & Health Center

Location: Washington, DC
 Project Type: ASHRAE Level II Audit
 Size: 61,647 sf

DC Building Energy Performance Standards (BEPS) Energy Analysis

Serenity Rehab and Health Center needed to improve their Energy Star score to meet DC-BEPS requirements. Energesco Solutions provided them with several energy efficiency projects to reduce their overall energy consumption by 29% and 61%. In the end, the client and DC-SEU chose from the list of projects to reduce their energy usage by up to 42%.

Energy and water savings projects included VRF heating and cooling, LED lighting and controls, low flow water fixtures, kitchen hood exhaust controls and other improvements to kitchen operations, an energy management system, EC motors on WIC/WIF fans, heat recovery for clothes dryers, and ozone water treatment for the laundry clothes washers. Projects that were reviewed but not chosen include PV solar, geothermal, and electrification of the domestic hot water.

FINANCIAL / PERFORMANCE HIGHLIGHTS

COST OF ENERGY PROJECTS	\$725,305
ANNUAL SAVINGS	\$113,667
GRANT FUNDING	\$644,465
SIMPLE PAYBACK	0.7 years
KWH SAVED	482,575
THERMS SAVED	24,011