

## Machine Learning Controls Real Estate Energy Cost - Energy Efficiency & Benchmarking

Energy Efficiency Energy Benchmarking

Energy Asset Score

Energy Consumption & Savings

Energy Cost & Savings

Customer Rate Plan

Energy Efficiency Programs

Asset Score & EUI

EUI Ratio

Energy Asset Score

Energy Costs

Customer Type

Commercial

Customer Name

Andys Market Inc

Building Type

Supermarket

Building Name

Andys Market Inc

Appliance Type

Cooling

Appliance Name

Air Cooled Chillers



### Building Profile

Roof	:	Hipped Roof
Ceiling	:	Dropped
Solar Panel Installation	:	No
Composite Structure	:	Roof
Door	:	Panel
Glazing	:	Internal
Internal Gain	:	Fluorescent Lighting
Air Exchange	:	Infiltration
Cladding	:	Glass

### Building Asset Score Comparison



### Predicted Asset Score

#### Building Physical Characteristics

##### Envelope

Add Roof Insulation

##### Lighting Systems

Upgrade to Compact Fluorescent Lighting

##### Heating

Upgrade to High-Efficiency Fossil Fuel Furnace / Boi

##### Cooling

Upgrade to High-Efficiency Electric Chiller

##### Service Hot Water Systems

Upgrade to High-Efficiency Fossil Fuel Service Hot W

#### Asset Score



71

#### Cost Saving



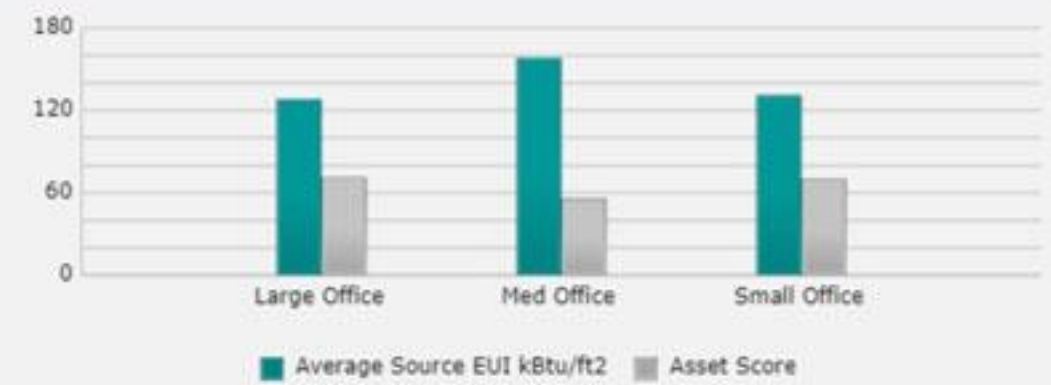
\$160,598

#### Energy Savings (KW)



4644890

### EUI & Asset Score - 2015



### EUI & Asset Score - 2016



### Asset Score - Mixed- Use Buildings

Weighting Factor	Building - 51803		Building - 46955		Building - 51803 W/ 20% Energy Reduction in Office		Building - 46955 W/ 20% Energy Reduction in Office		Building - 51803 W/ 20% Energy Reduction in Retail		Building - 46955 With 20% Energy Reduction in Retail Portion	
Source Energy Use (MBtu)	7000	9000	13000	3000	5600	9000	10400	3000	7000	7200	13000	2400
Total Energy Saving (MBtu)	N/A		N/A		1400		2600		1800		600	
Source EUI (kBtu/ft2)	100	300	186	100	80	300	149	100	100	240	186	80
Asset Score by Use Type	82	55	54	89	87	55	67	89	82	67	54	91
% of Floor Area	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3
Overall Score by Floor Area	74		65		77		74		78		65	
Additional Points After Saving	N/A		N/A		4		9		4		0	
% of Energy Use	0.44	0.56	0.81	0.19	0.38	0.62	0.78	0.22	0.49	0.51	0.84	0.16
Overall Score by Energy Use	67		61		67		72		74		60	
Additional Points After Saving	N/A		N/A		0		11		8		-1	