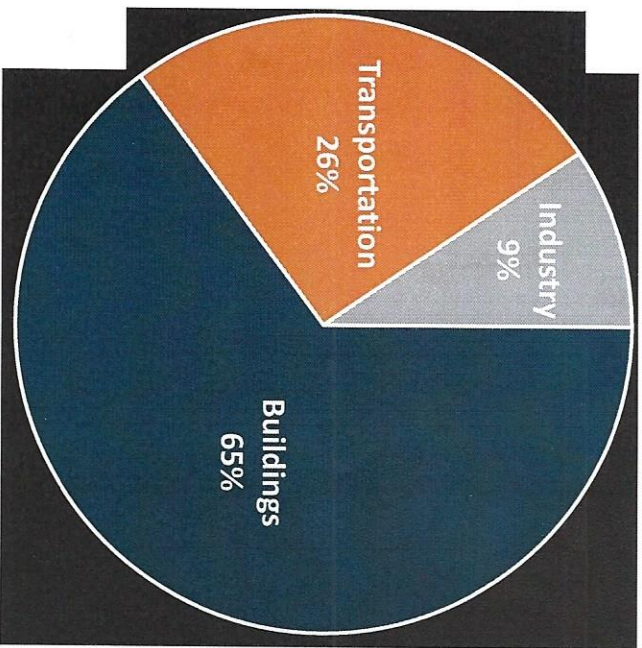
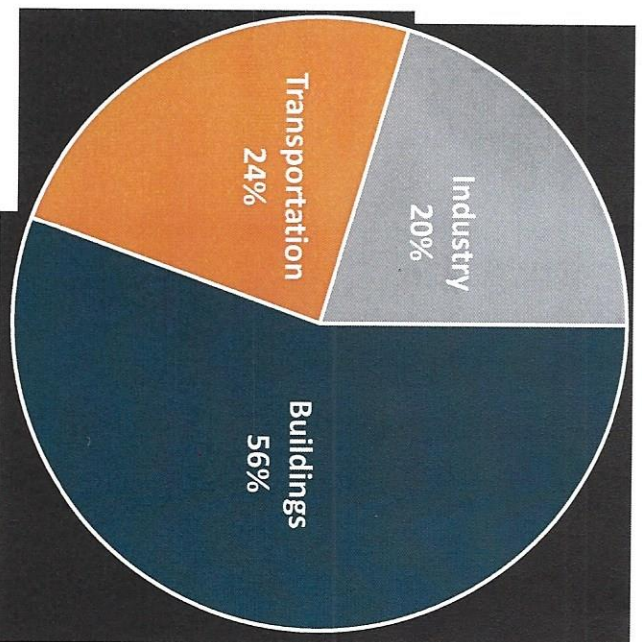


Energy Consumption by Sector

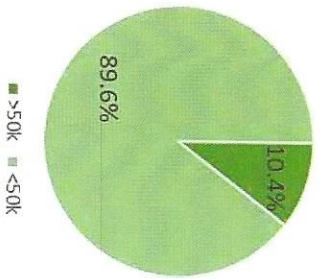


CO<sub>2</sub> Emissions by Sector



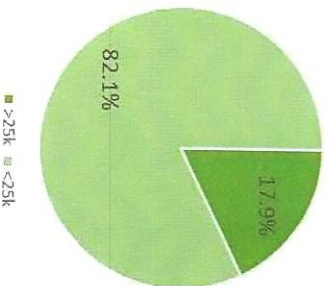
# Policy Threshold: 50K vs 25K square feet

50,000 sq. ft. = 478 buildings



62.2% of commercial building stock

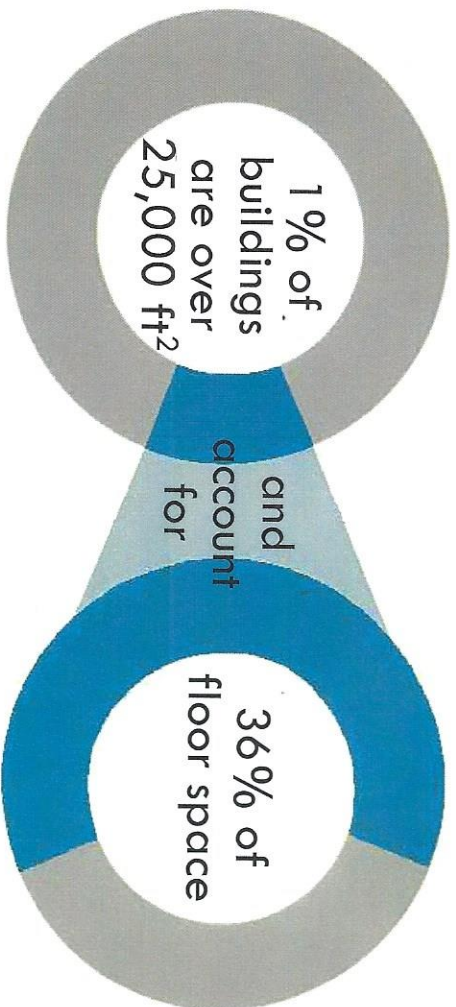
25,000 sq. ft. = 819 buildings



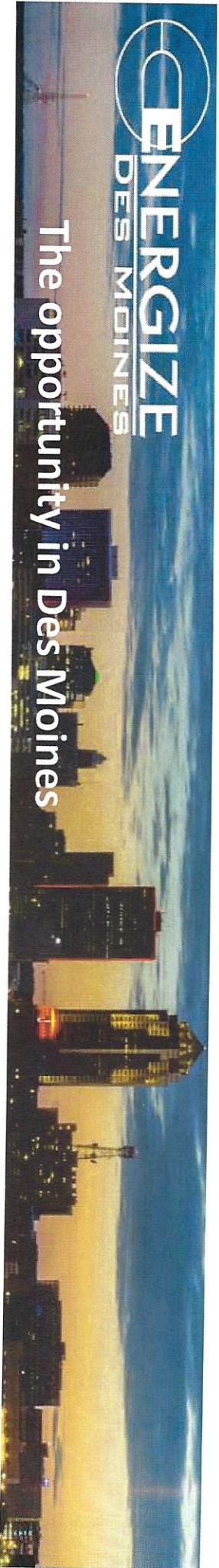
73.1% of commercial building stock



## Focus on large existing buildings, maximize impact

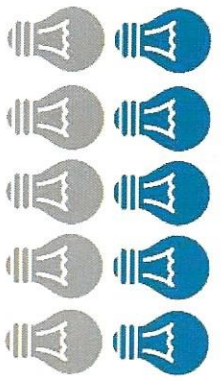


By focusing on buildings over 25,000 sq. ft., we can address over a third of the square footage in the city (including single family homes) while affecting only the largest 1% of buildings

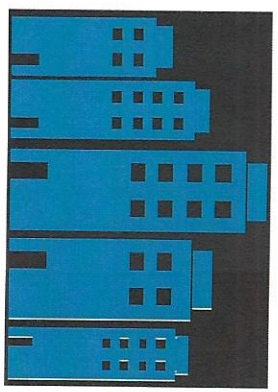


# ENERGIZE DES MOINES

## The opportunity in Des Moines



**56%**  
of Des Moines' climate pollution comes from energy usage in our buildings

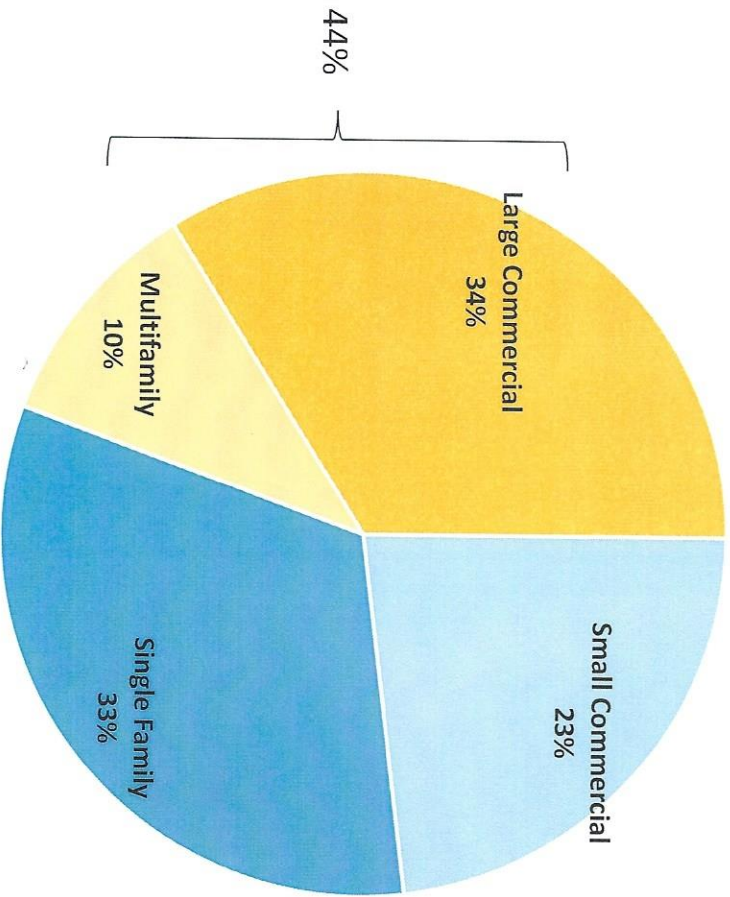


On average, buildings waste **30%** of their energy and water due to inefficiencies and poor operation

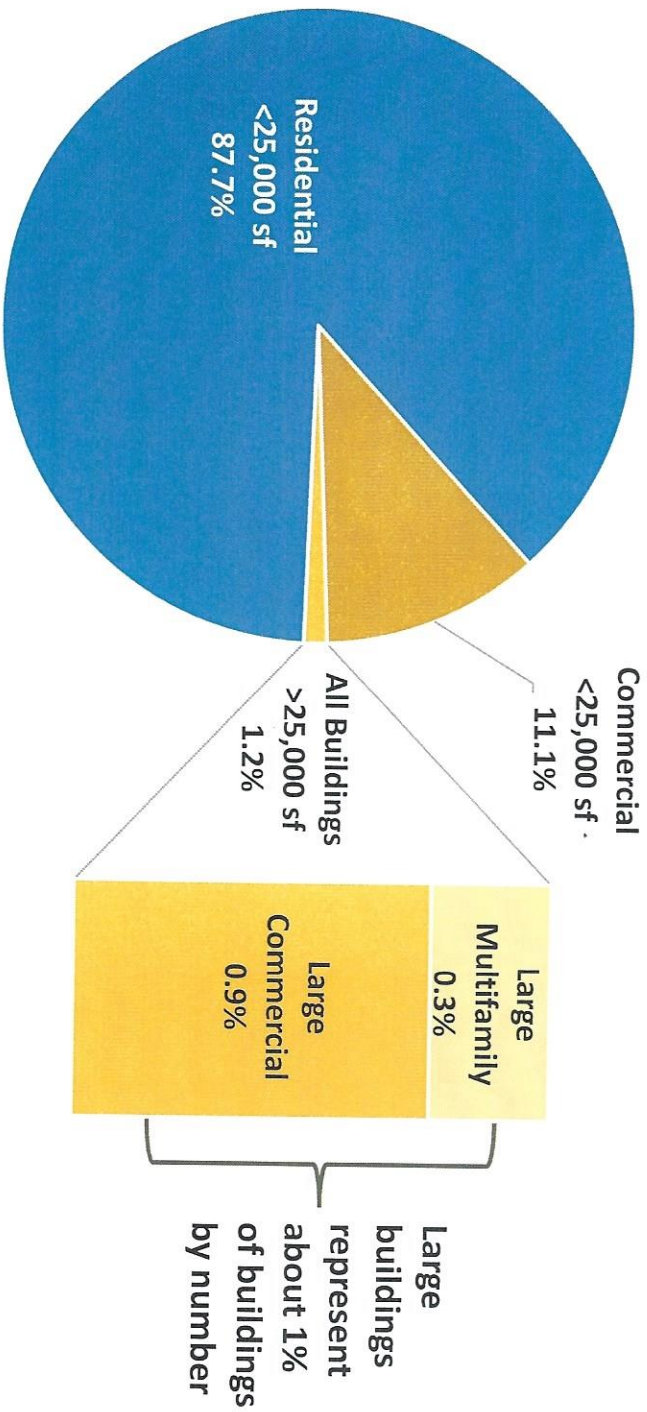


## Energy Consumption – Large vs. Small Buildings

Buildings over 25,000 sq. ft. represent 44% of Des Moines' building energy use



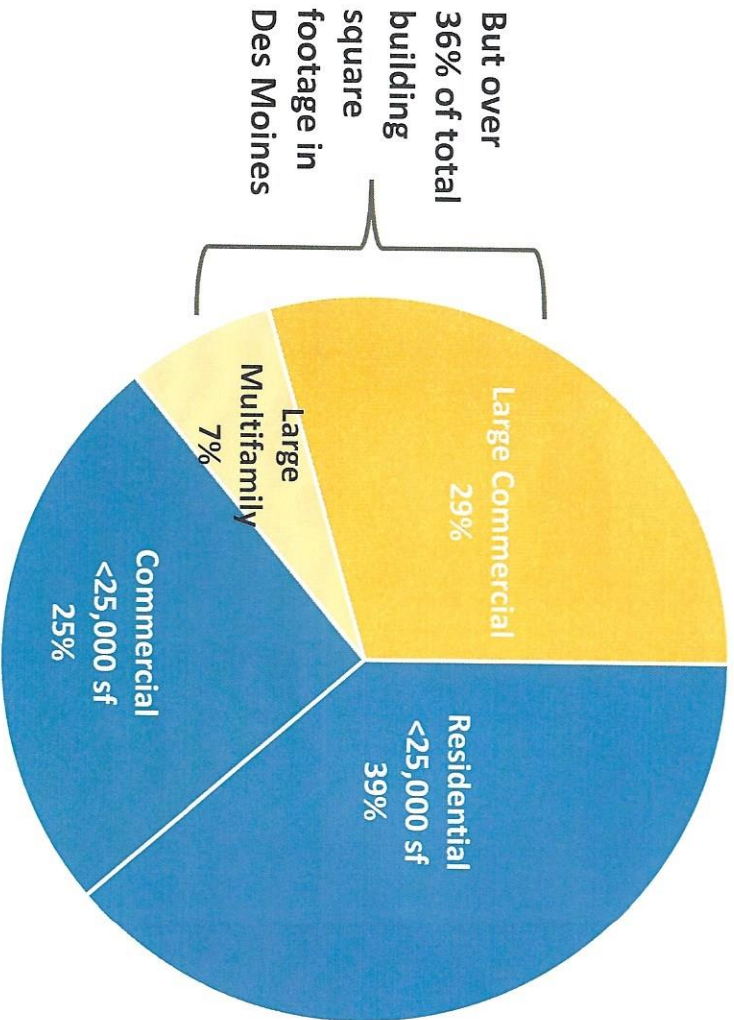
# Building Stock Breakdown - by number of buildings



\*including single family residential buildings

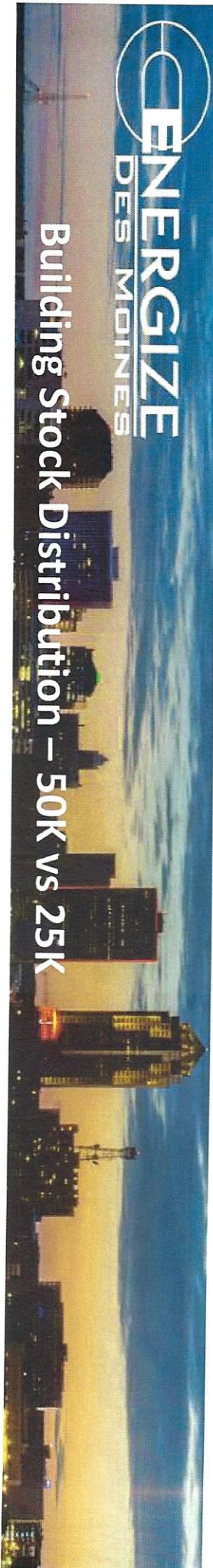


## Building Stock Breakdown – by square footage

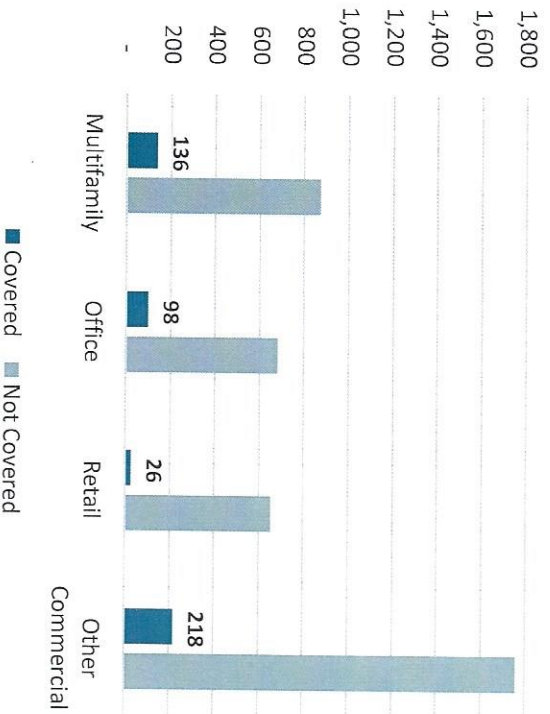


\*including single family residential buildings

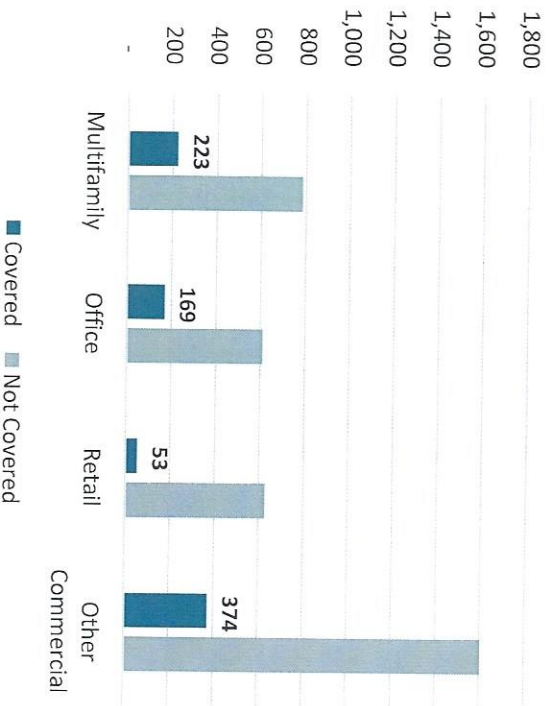
# Building Stock Distribution – 50K vs 25K



Number of Buildings By Type, 50K



Number of Buildings By Type, 25K

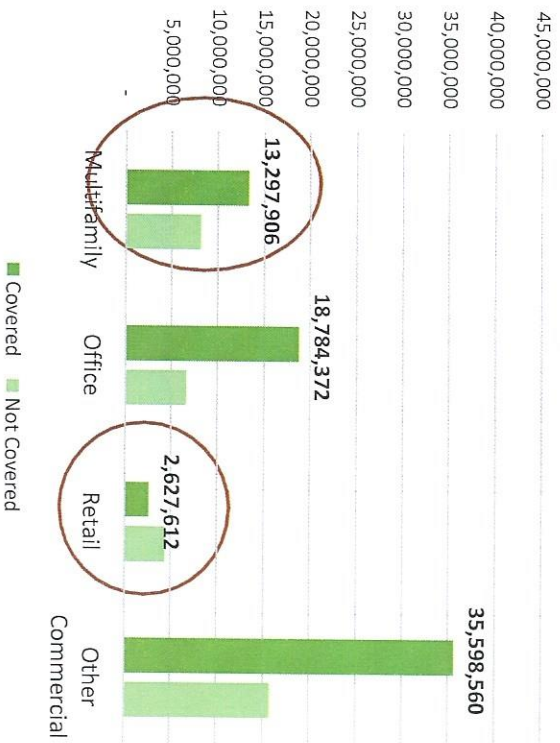


\*excluding single family residential buildings

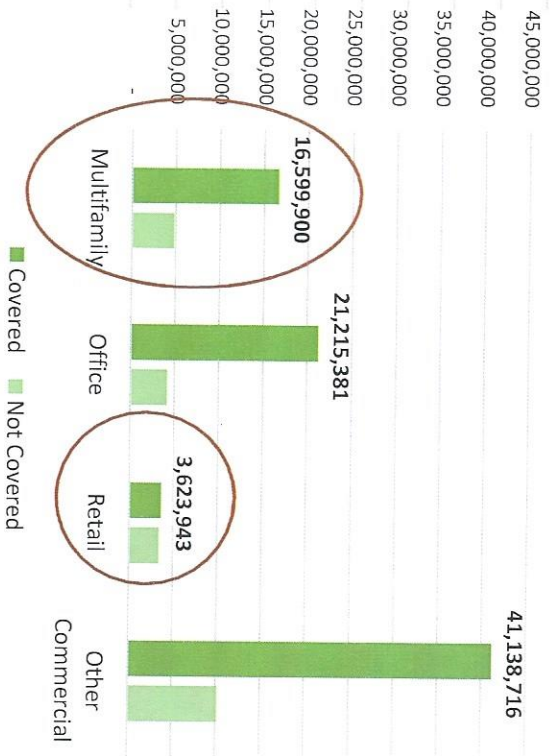


# Building Stock Distribution – 50K vs 25K

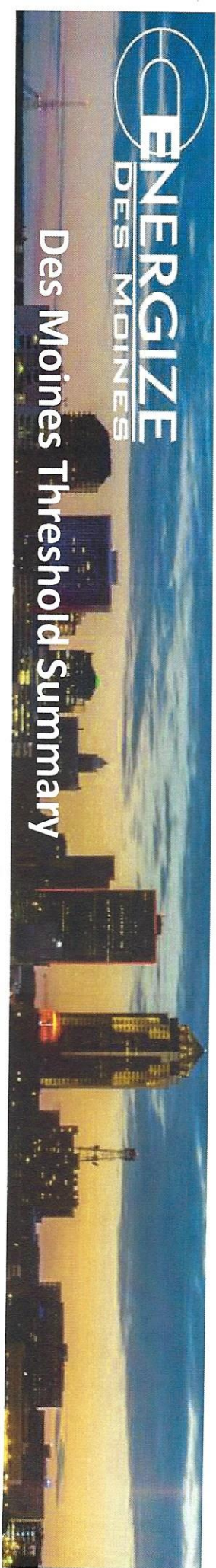
### Gross Sq Feet by Type, 50K



### Gross Sq Feet by Type, 25K



\*excluding single family residential buildings



## Des Moines Threshold Summary

Threshold (sqft)	Number of Buildings	%	Total Square Footage	%
10,000 and greater	1,508	32.9%	93,688,455	82.9%
20,000 and greater	977	21.3%	86,132,385	76.2%
25,000 and greater	819	17.9%	82,577,940	73.1%
30,000 and greater	727	15.9%	80,066,563	70.8%
50,000 and greater	478	10.4%	70,308,450	62.2%
<b>Total</b>	<b>4,585</b>	<b>-</b>	<b>113,030,934</b>	<b>-</b>



# Des Moines 2017 GHG Inventory Data

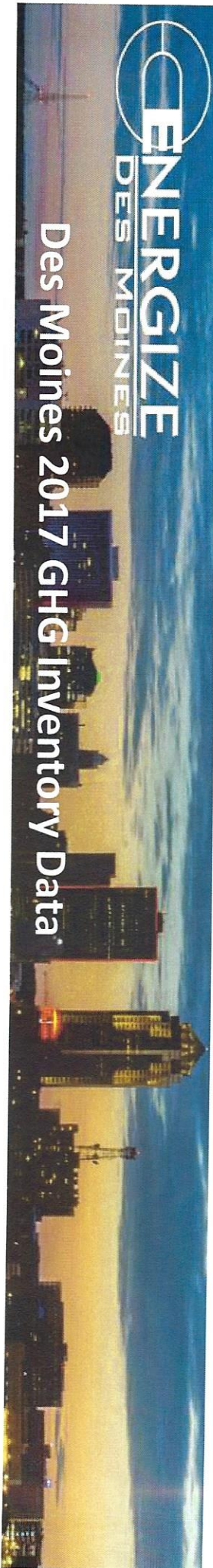
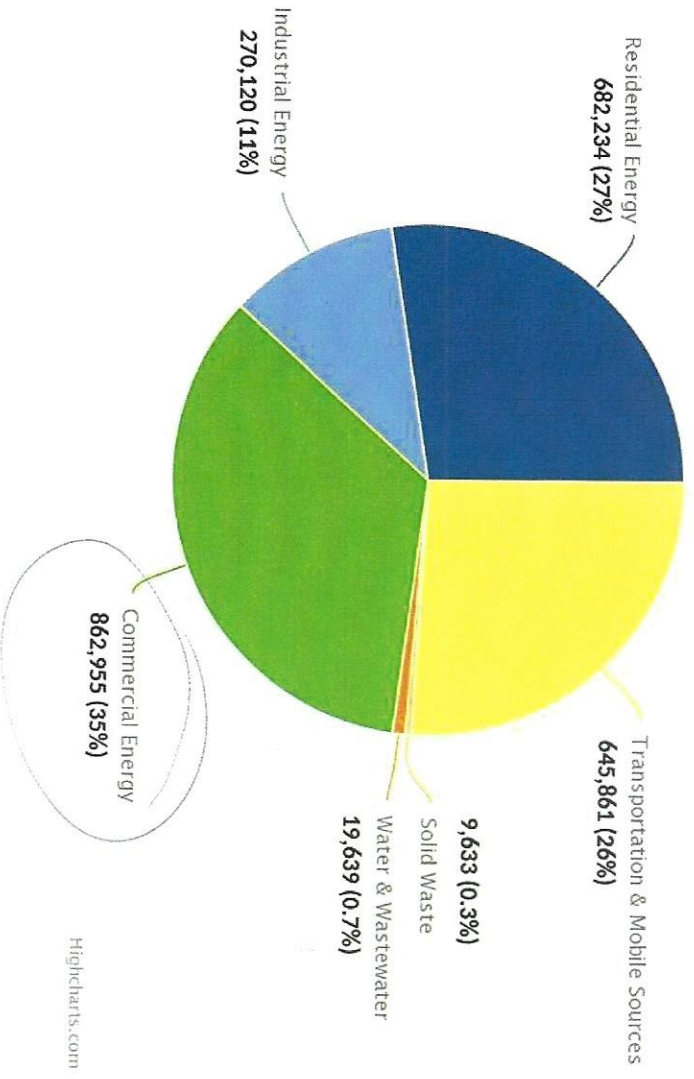


Figure ES 1: 2017 GHG Inventory for Community of Des Moines, IA  
(MT CO<sub>2</sub>e)



\* Eric@UNI  
Hiddens



**Des Moines Commercial Building Analysis – Benchmarking & Reporting 25,000 sq. ft.**  
2020-2023; Performance Verification 50,000 sq. ft. beginning 2024 (once every five years)

**Buildings above 25,000 sq. ft. 889 Total less 70 classified Industrial = 819**

**Government Buildings City of Des Moines – 16**

**Polk County – 11**

**State of Iowa – 15**

**Total – 42**

**Covered non-government buildings = 777**

**Buildings above 50,000 sq. ft. 522 Total less 44 classified Industrial = 478**

**Government Buildings City of Des Moines – 9**

**Polk County – 8**

**State of Iowa – 12**

**Total – 29**

**Covered non-government buildings = 449**

