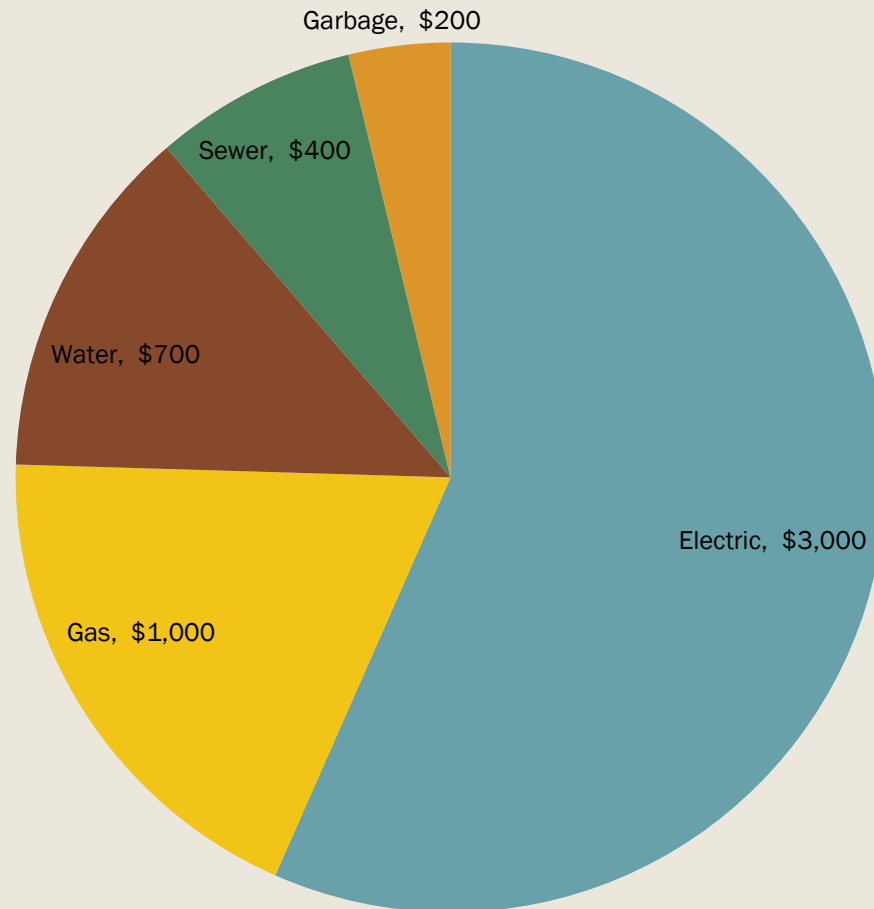




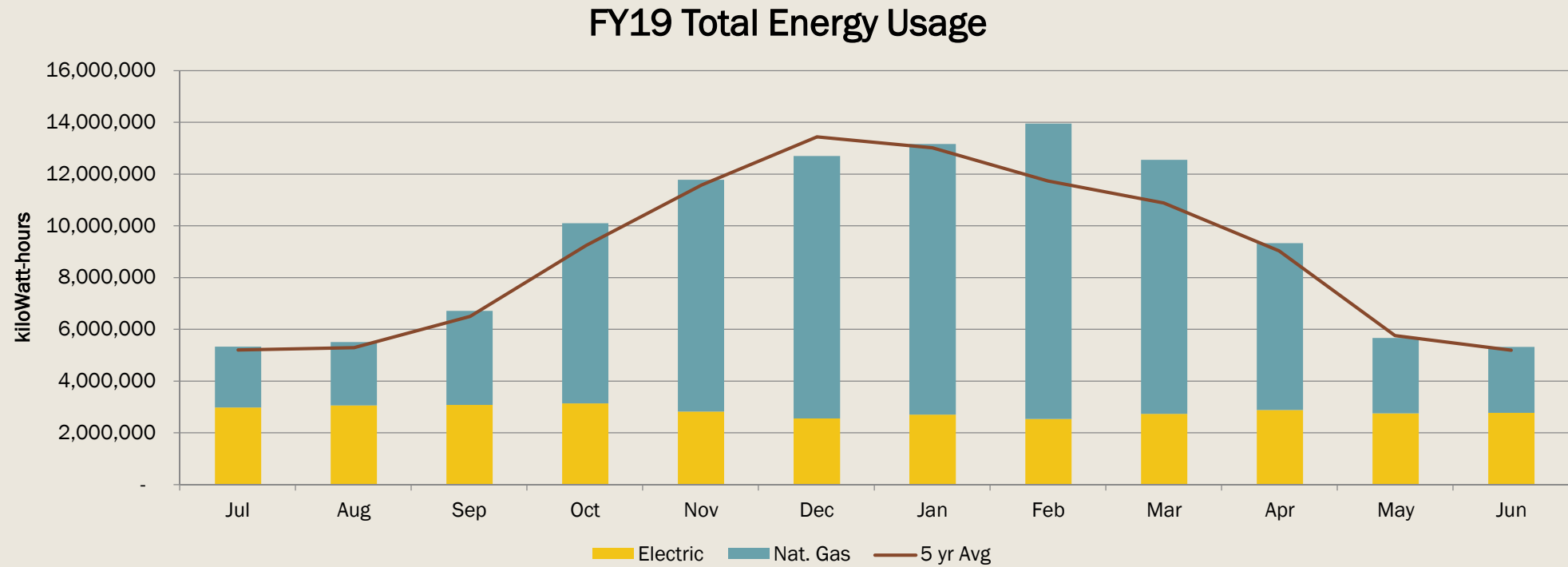
# SUSTAINABILITY LECTURE SERIES

Energy Efficiency

# UM Utilities

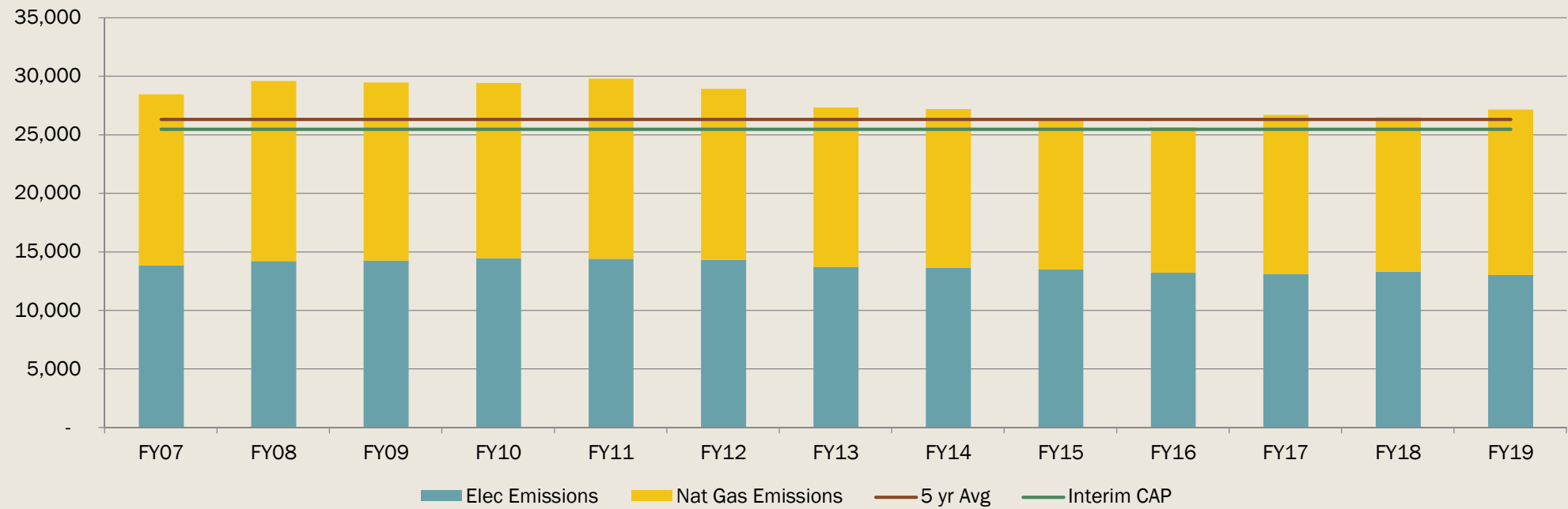


# UM Energy Usage



# Scope 1 & 2 Emissions

Annual Utility Carbon Emissions



# Energy Projects

- 20+ big projects
- \$6M
- \$500k/yr savings
- 3.6 ktonnes/yr CO<sub>2</sub>e
- Continuous Upgrading



# Upcoming Projects

- Adams Center Lighting
- Library Lighting
- Library PV
- Urey Lighting
- Eck Hall PV
- Smart Meters
- “No Net New”
- Combined Heat & Power

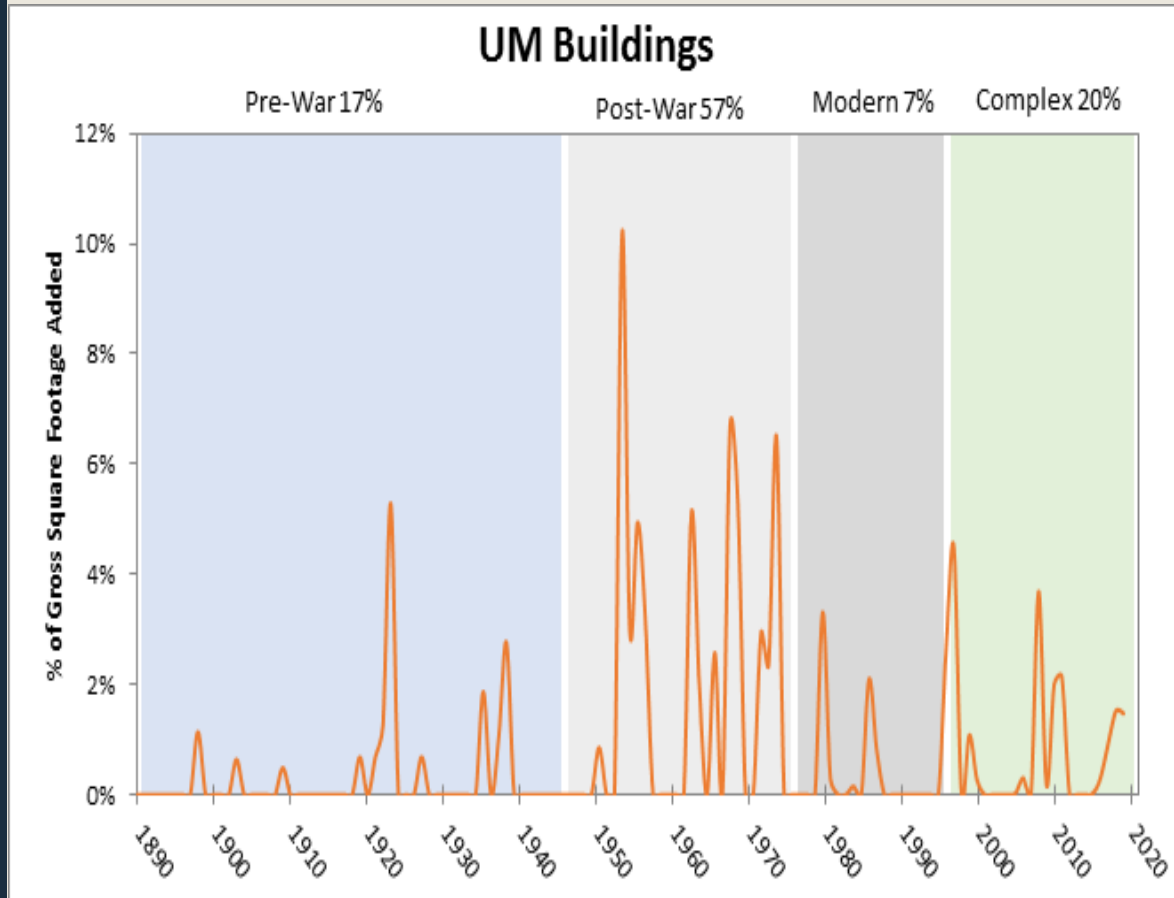


# Energy Audit



- Energy Master Plan
- Audit of Buildings
- Aiming for >25% savings
- Guaranteed Savings!

# Challenges?



- Building vintages
- Deferred Maintenance
- Ability to keep & re-invest savings
- LEED for Existing Buildings