



The Big Picture of Auditing Big Buildings



Lee Bolling, PE, CEM, CEA
Mechanical Engineer

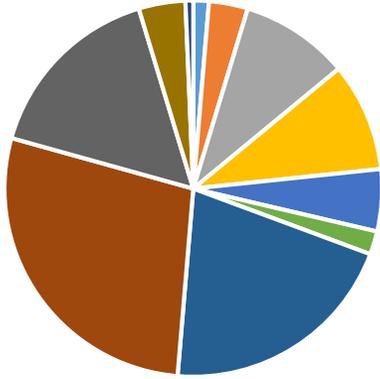


**Building Owner or
Facility Manager?**

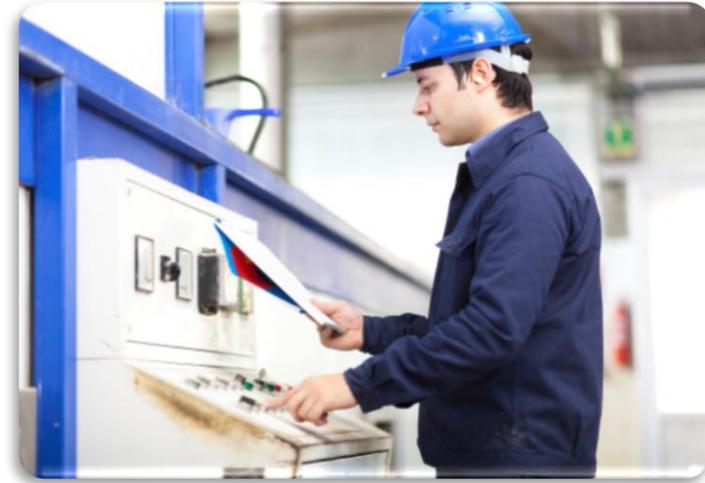
Energy Professional?

Governmental or Non-Profit?

Interested in Commercial Buildings?



**Energy Audit
(Lee)**



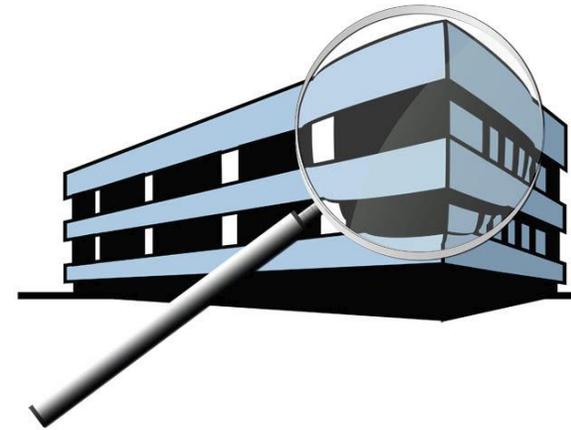
**Facility Management
(Hugh)**



Virtual Energy Project



**Building Controls
(Will)**



**Commissioning
(Ezra)**

What is the Client's Goal?



**All about
the Benjamins**



**Tenants are
number one**

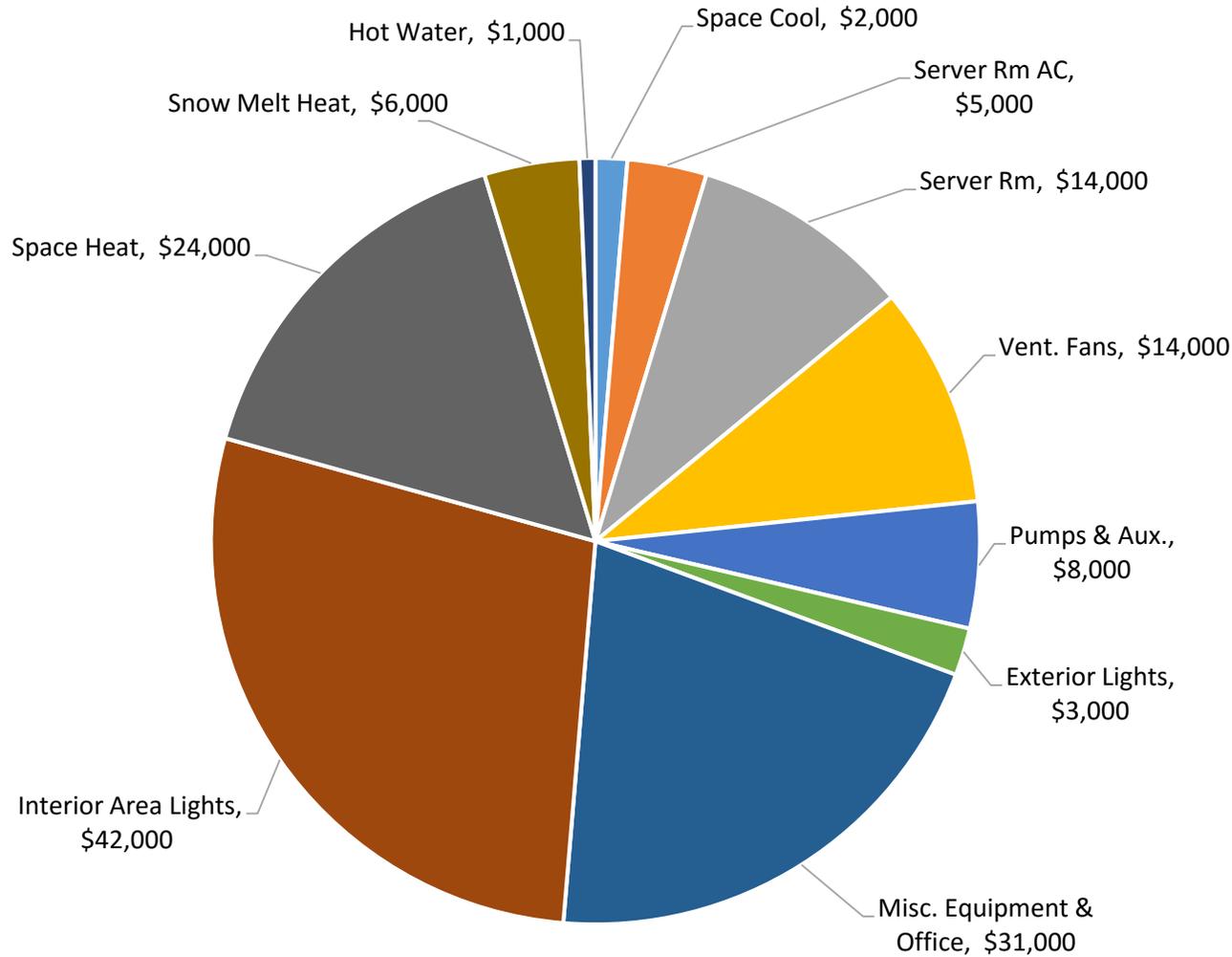


**Long-term
Spaceship**



**Just
STOKED!!!**

Break it down...

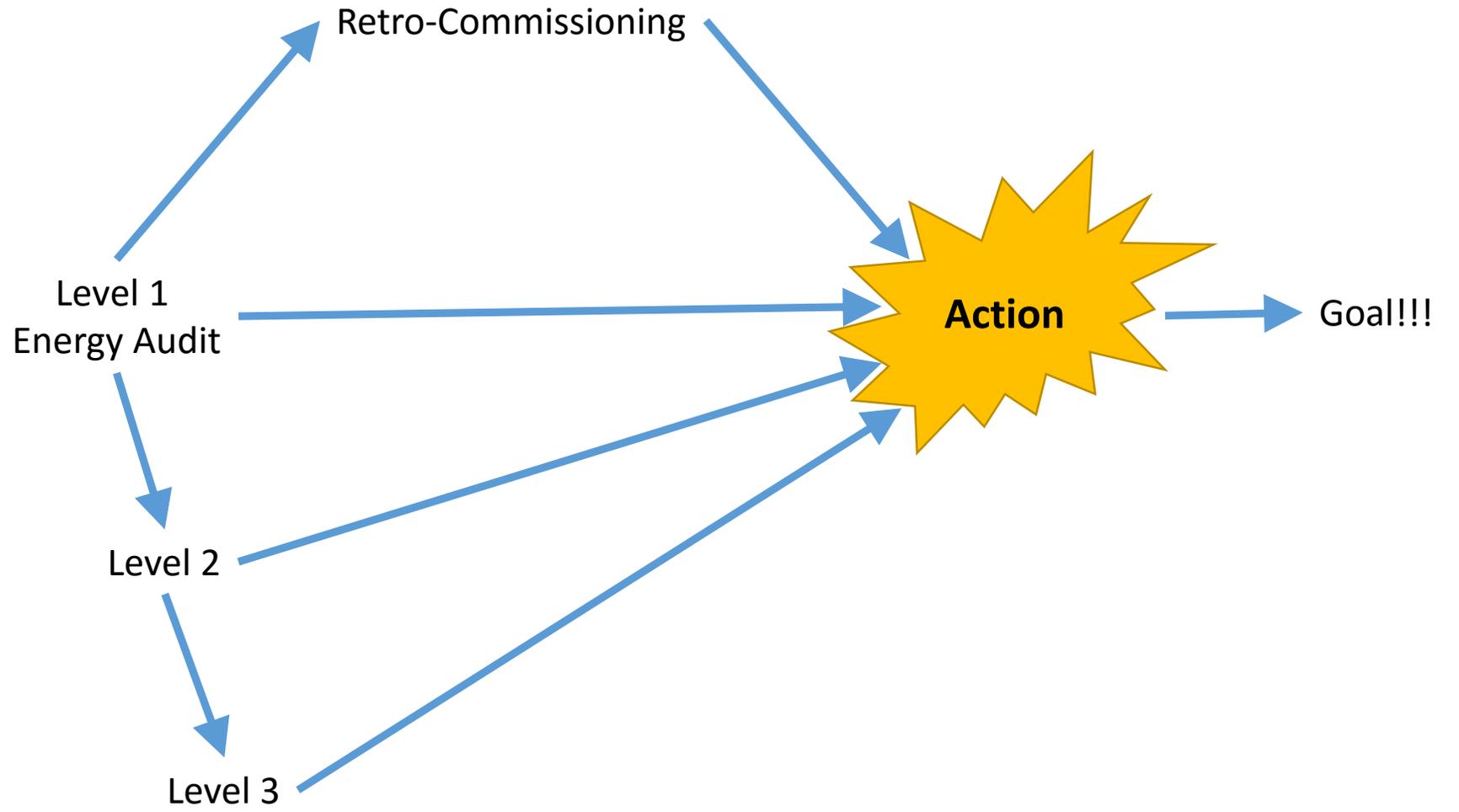


Name: Big Building Number 1
Where: Anchorage
Age: 25 years old
Size: 50,000 SF

Electricity: \$119,000 /yr
Natural Gas: \$31,000 /yr
Grand Total: \$150,000 /yr



Client's Goal



Barriers...



Waiting for someone else to pay for it



Pay for waste



Pay for improvement



It's an investment
(Internal Rate of Return)
(Net Present Value)