

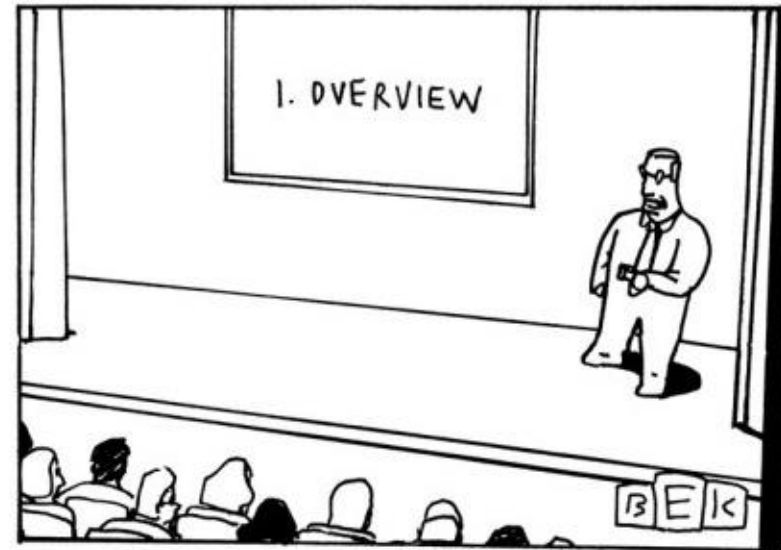
#freehelp4u

BayREN Municipal ZNE/ZNC
Technical Assistance Program

What we'll cover

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- Muni ZNE/ZNC Tech Assistance Program
- Services available
- Limits, timing, steps
- Example projects
- www.bayrencodes.org/services/zne/
- pollard@kw-engineering.com



"First, I want to give you an overview of what I will tell you over and over again during the entire presentation."

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- Municipal Zero Net Energy / Zero Net Carbon Assistance
- www.bayrencodes.org/services/zne/
- pollard@kw-engineering.com



BAYREN

FRONTIER
energy

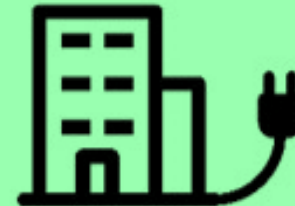
kW
ENGINEERING



*Energy
Efficiency*



*Renewable
Energy*



*Building
Electrification*

Tech Services

www.bayrencodes.org/services/zne/

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Supporting drives *toward* ZNE / ZNC

- Efficiency AND renewables
- Existing buildings OR planned new construction
- Building OR portfolio OR policy levels

- Example Tasks:
 - Facility efficiency audits
 - Renewable generation assessments
 - Electrification feasibility
 - Energy modelling, design strategies
 - Portfolio assessments
 - Procurement strategy, performance specs
 - Policy advice

Limits, timing, steps

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- ALL BayREN municipalities
- Free
- Efficiency + renewables
- Sooner = better
- Starts with a call



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Ex.1: New Town Center

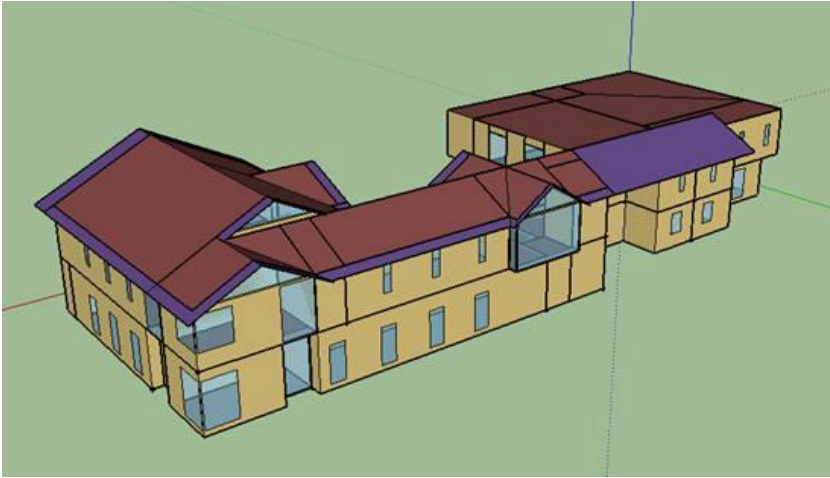
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- Planned new construction
- Overall architecture defined only



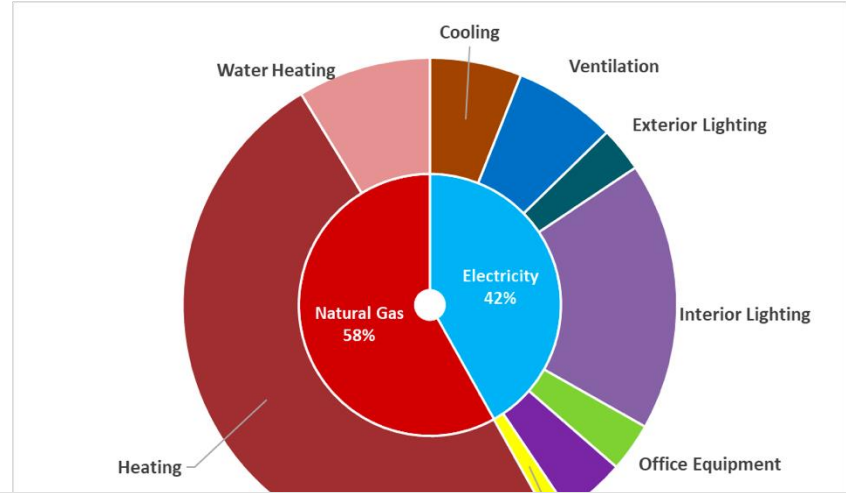
Ex.1: New Town Center

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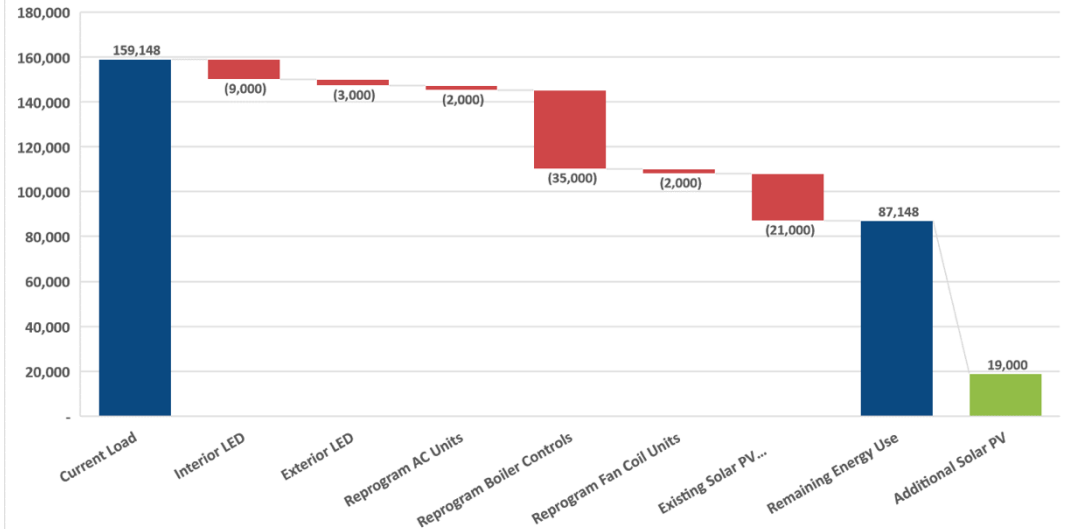


	Current Plan	ZNE Upgrade (from Current Plan)	ZNC Upgrade (from ZNE)
Total Energy Consumption (kWh equivalent per yr)	220,000 ¹	136,000 ²	97,000
Total Energy Cost (\$/yr)³	\$35,000	\$30,000	\$27,000

Ex.2: Existing Library

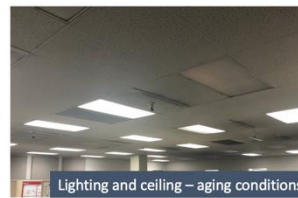
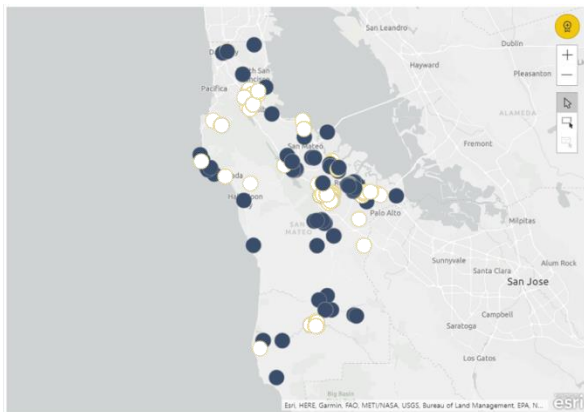
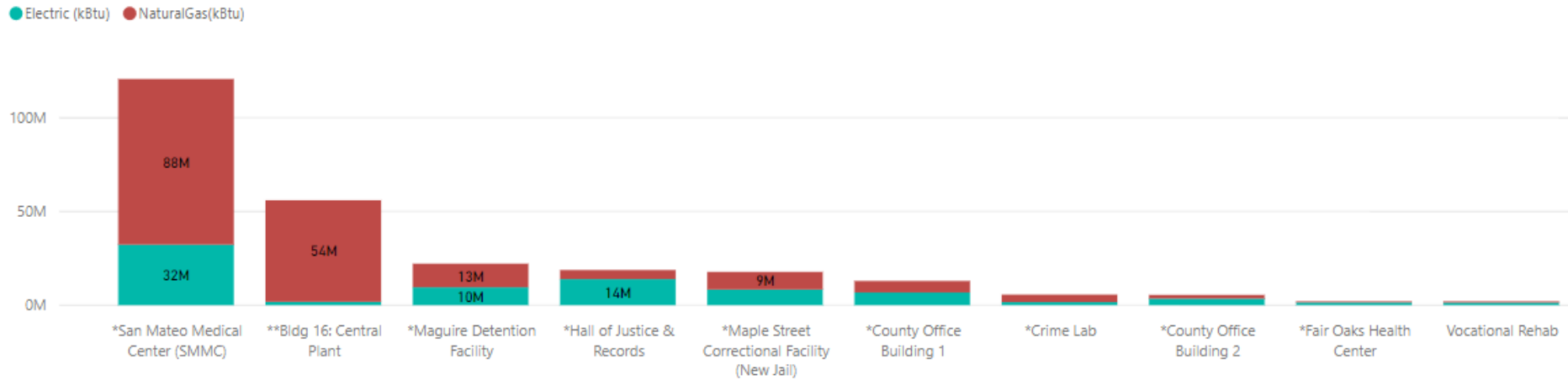


South Library Energy Consumption (kBTU/yr)



Ex.3: Portfolio

TOP 10 Sites with Highest Energy Consumption (kBtu) FY2016



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