Greening the City with Better Lighting



Kim Hicks
Data Scientist
DataSF, datasf.org



Lowell Chu
Senior Energy Efficiency Specialist
Department of Environment

You probably only think about your lightbulbs when they burn out



But if you own a large building, you may see lightbulbs as a cost driver

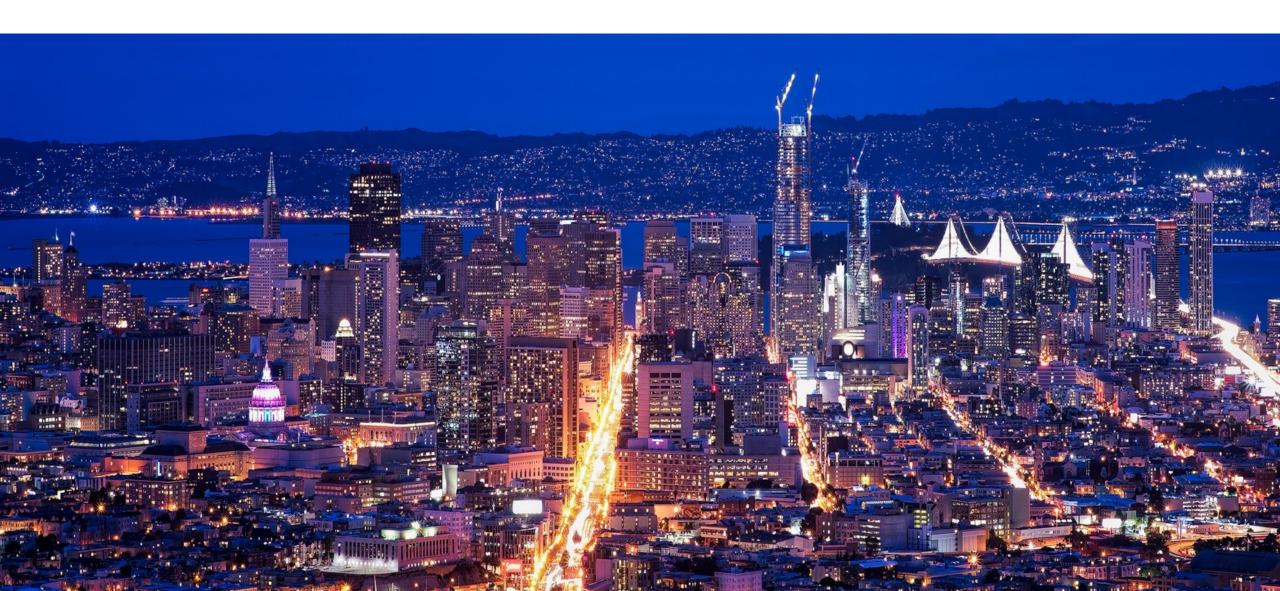




X 1000s =



When we see San Francisco's lights illuminated together, we also think of **Greenhouse Gas emissions**

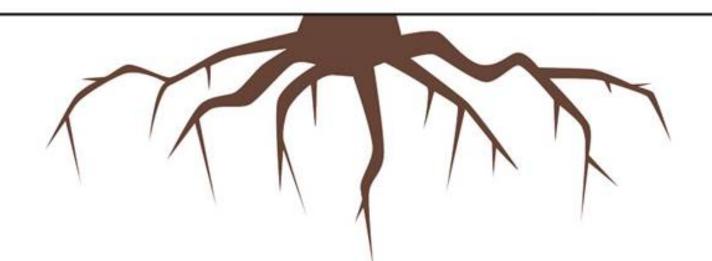


And our Climate
Action goals include
"Roots," Zero Waste,
50% sustainable
transit and 100%
renewable energy

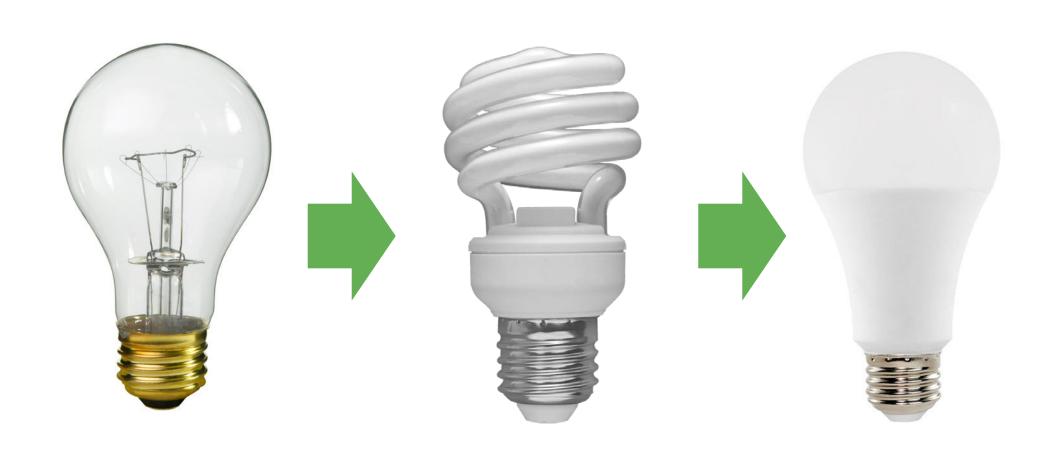


SAN FRANCISCO CLIMATE ACTION

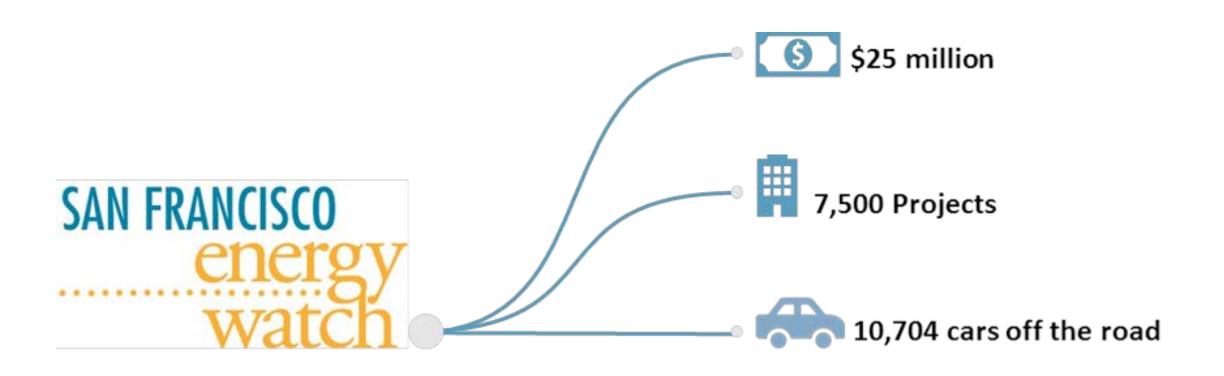
050100



Which is why the Department of Environment helps property owners migrate to newer, more efficient lighting

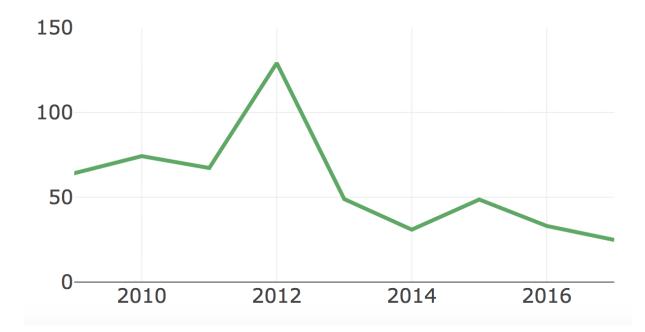


Energy Watch, in partnership with PG&E helps businesses and multifamily buildings reduce energy by installing more efficient lighting

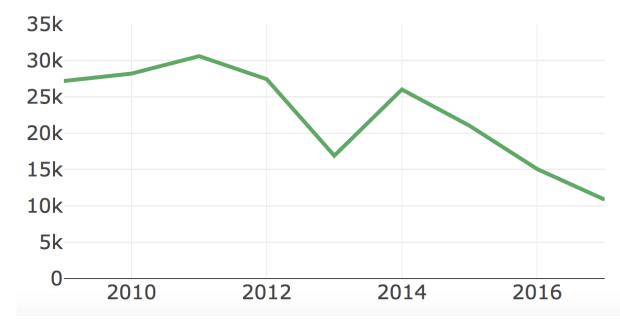


But both the number of projects & energy savings have decreased in recent years

Average monthly projects by year



Average monthly energy savings by year



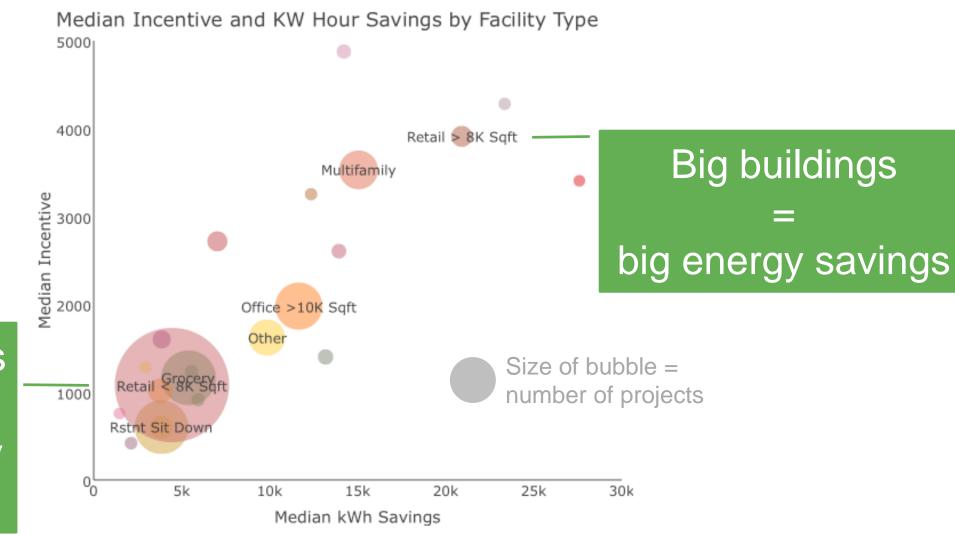
Can we find new leads and identify which leads are good candidates?







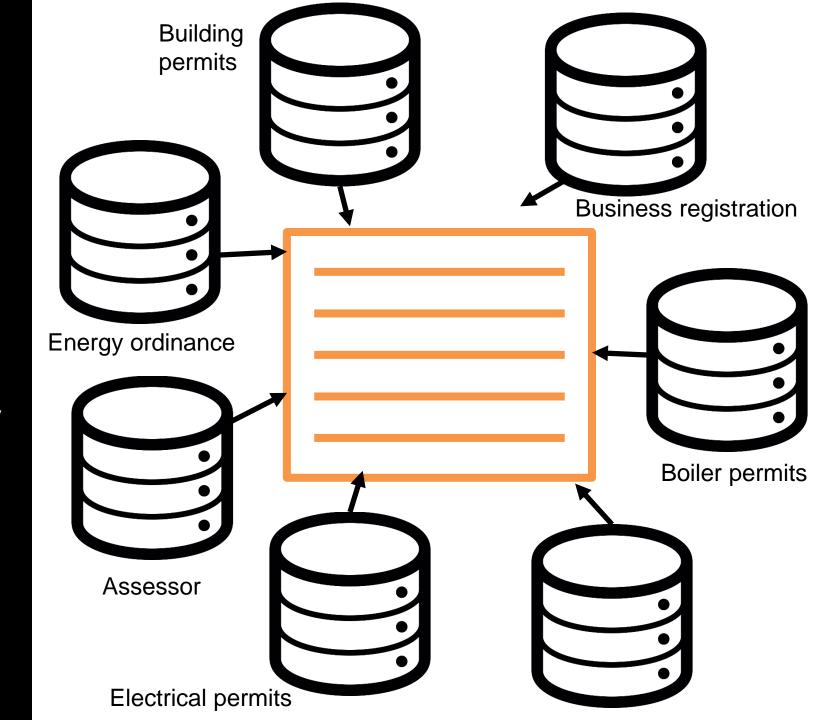
From their pool of completed projects we learned that an opportunity exists to target bigger buildings with greater potential energy savings



Small buildings = smaller energy

savings

We combined multiple open data sources to generate a list of leads that can be prioritized by various characteristics

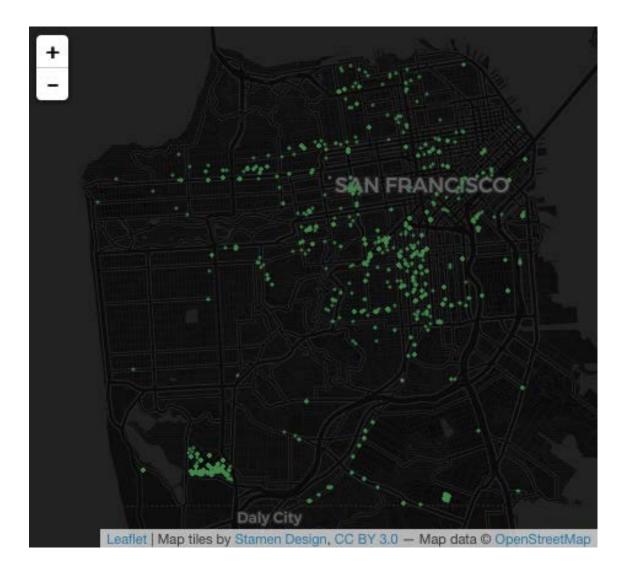


Commercial leads: Before and After +250%



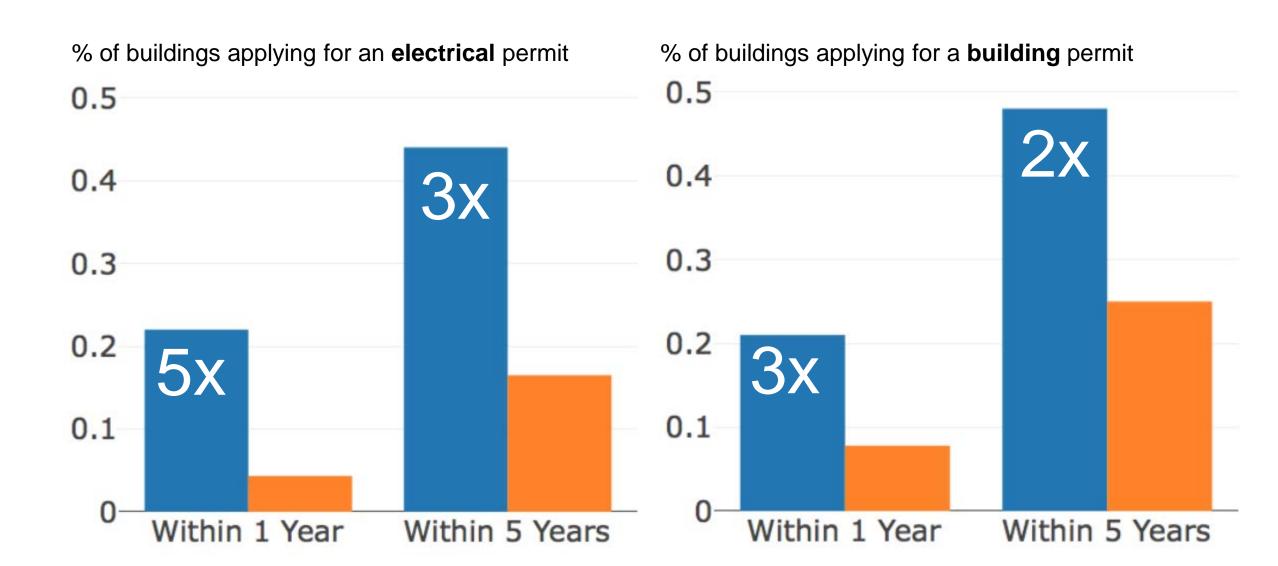


Multifamily leads: Before and After +1000%





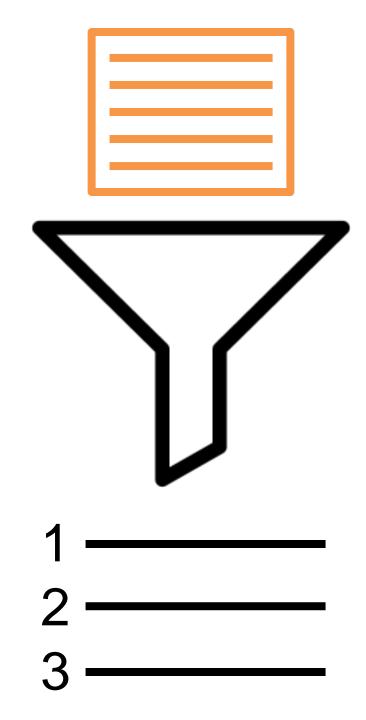
Buildings with completed projects were much more likely to have applied for various permits Buildings with project Other buildings



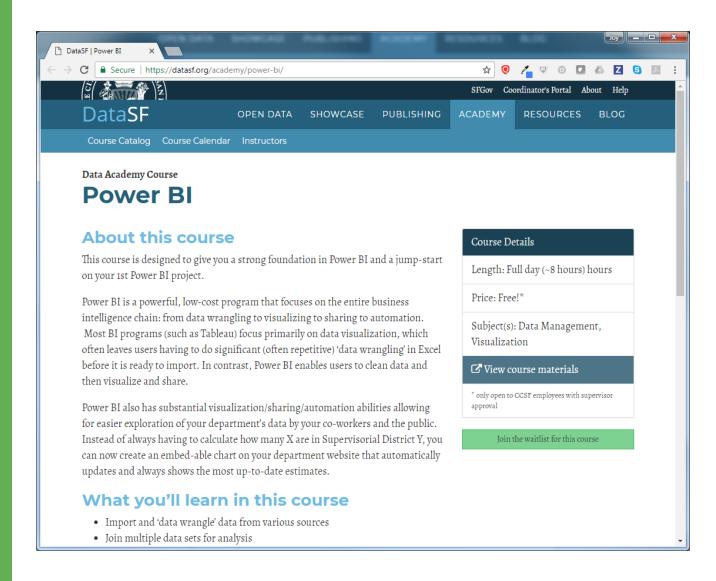


Service Change

Use list to filter and prioritize outreach



Two SFE staffers will use this list to develop a "Customer Dashboard" after taking the PowerBI Course via Data Academy in February





Data, for the love of the City



THANK YOU

@datasf | datasf.org | datasf.org/blog