

# City of Berkeley

## PICG Public Safety Power Shutoff Workstream #1

November 16, 2020



# Microgrids Provide Community Resilience

## Balancing Clean Energy with Energy Assurance



Photo: Emily Raguso, Berkeleyside

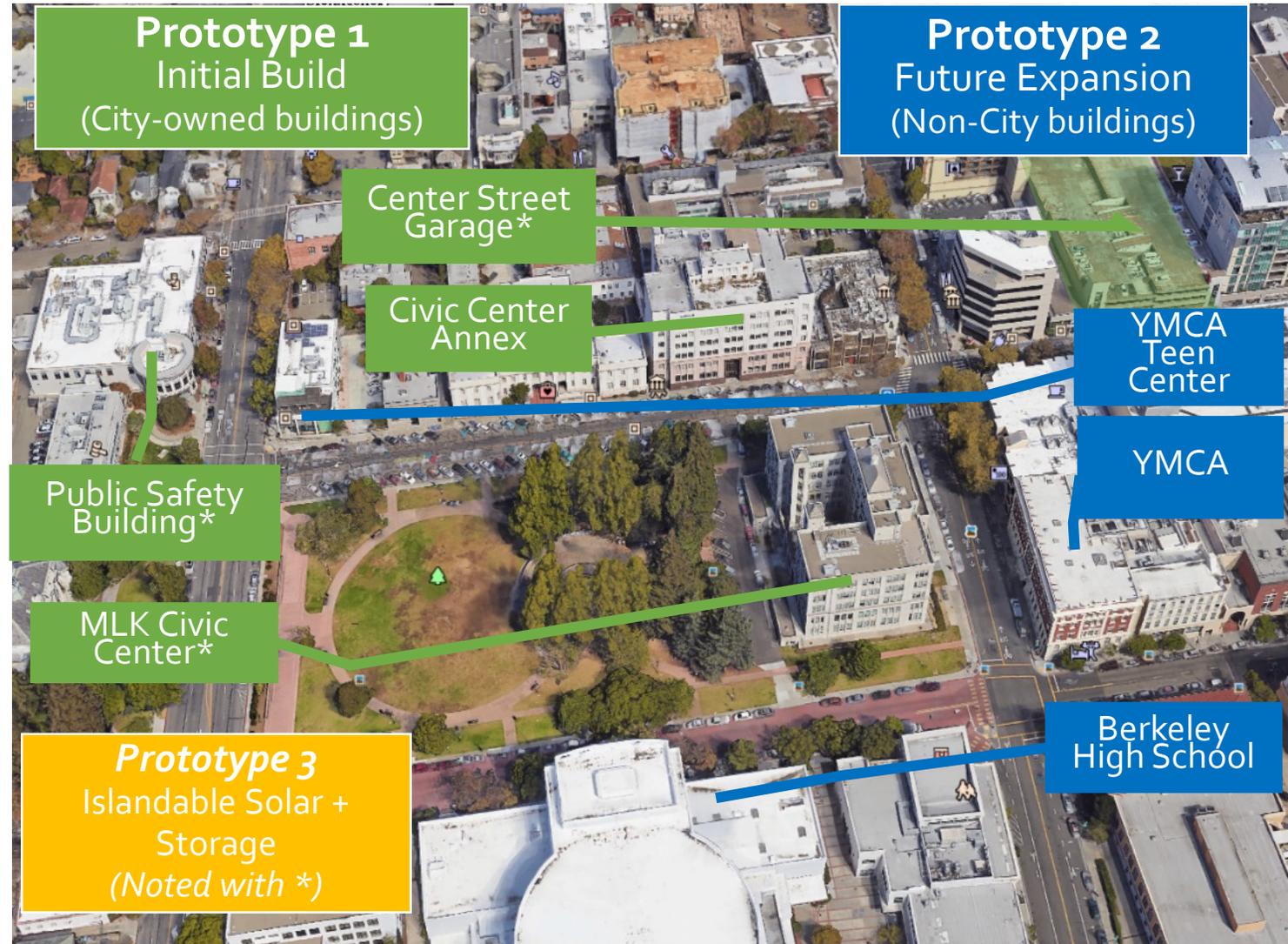
# Berkeley Energy Assurance Transformation (BEAT)



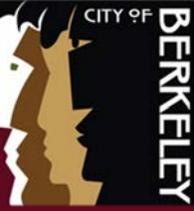
\$1.5 million CEC grant, 2017-2019

Microgrid feasibility for:

- Connecting buildings across blocks
- In a downtown, built-out environment
- With multiple customers



# Current Policies Make Microgrids Expensive



Utilities are reluctant to share infrastructure information.

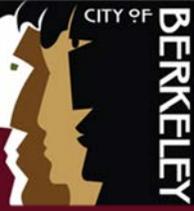
Can't use existing distribution; City must pay for new ones.

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Utility must operate new lines but City pays utility for O&M.

Can't create master meter at point of interconnection, don't value grid services & must pay transmission fees.

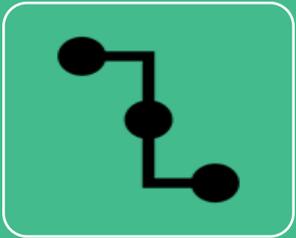
# Microgrid Energy Data Needs



What energy data is valuable for community planning and how do you get it?



Current and planned infrastructure

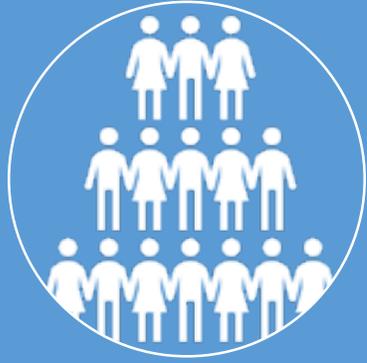


Location and # of customers on a given distribution line

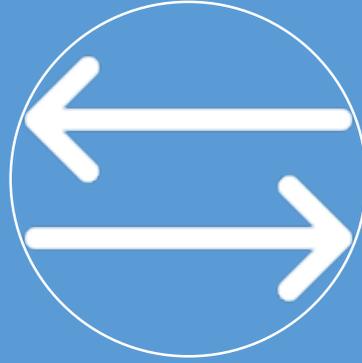


Info on building battery-readiness, standardized process, & interconnection timeline

# Energy Data Needs During PSPS Events



Staff Liaison  
Position  
Appropriately



Keep Liaisons  
Up-to-Date



Ensure Consistency  
of PG&E Outage  
Information



# Key Take-Aways

## Microgrid developers need:

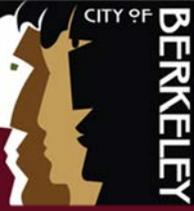
- Infrastructure information
- Standardized, public process
- Estimated interconnection timeline and costs
- Battery readiness specs

## Emergency services staff need:

- Dedicated liaison with up-to-date information
- Consistent information across websites



# Thank You!



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