<table>
<thead>
<tr>
<th>PROJECT GOALS</th>
<th>TODAY’S GOALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Expand market for solar + storage</td>
<td>• Inform committee on project status and upcoming milestones</td>
</tr>
<tr>
<td>• Increase resiliency in SF’s emergency response plans</td>
<td>• Set stage for future engagement (e.g., project site commitments)</td>
</tr>
<tr>
<td>• Serve as national model</td>
<td></td>
</tr>
</tbody>
</table>
Plan: 3-7 Day Electricity Outage

Potential Service Restoration Timeframes (M7.9 Earthquake)

Data: SF Lifelines Council, April 2014
Severe Weather Blackouts
Microgrids → Individual Systems
Case Studies
DELIVERABLES

• Case Studies - Complete.
• Roadmap and Best Practice Guide - Complete.
• Planning tools - Complete.

BUDGET

• Total Grant Amount: $1.3M

QUESTIONS TO ANSWER

• Are solar + storage systems technically feasibly? Yes!
• Have we considered / started to address policy considerations such as safety and permitting? Yes!
• How do we pay for the systems?
19 buildings
6MW (24MWh) energy storage
4MW of solar generation (20 years)

• Design Bid Build: ~$40M
• Public Private Partnership (P3): ~$26M
  • Yields lower payments from City; federal tax credits
Finance Plan Milestones

1. Capital Planning Mtg #1
   - Sept 11

2. Market Sounding RFI
   - Late Sept.

3. Outline System Performance Requirements
   - Early Oct

4. RFQ/RFP Outline
   - 1st Week of Nov

5. Capital Planning #2
   - Nov TBD

6. Industry Stakeholder Meeting
   - Dec 2017

7. Grant Ends
   - Dec 31, 2017
Jessie Denver
Energy Program Manager
Jessie.Denver@SFGov.org