

# **Energize Fresno**

## **Local Technical Advisory Committee**

February 27, 2018  
10:30 AM – 12:00 PM  
Manchester Center, Fresno, CA



Local Government Commission  
*Leaders for Livable Communities*

# Agenda

- |       |   |
|-------|---|
| 10:30 | Welcome, Goals, Introductions   |
| 10:40 | Energize Fresno Results   |
| 11:00 | Results Discussion  |
| 11:20 | Energize Fresno Resources <ul style="list-style-type: none"><li>- Funding Platform</li><li>- Fresno Green</li></ul> |
| 12:00 | Adjourn   |

# Energize Fresno Partners



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# Introductions

*Name*

*Title*

*Organization*



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# California Energy Commission EPIC AEC Grant:

- **Contractor:** Local Government Commission
- **Partners:** Tierra Resource Consultants, City of Fresno, CALSTART, Fresno Metro Ministry
- **Amount:** \$1,500,000
- **Co-funding:** \$12,445 in-kind support
- **Term:** May 2016 – March 2018



# What is an Advanced Energy Community?



Minimize new infrastructure



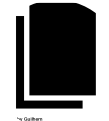
Zero Net Energy Community status



Support grid reliability and resiliency



Easier integration and alignment with CPUC procurement



Replicable and scalable



Financially attractive



Affordable access to renewable energy and energy efficiency



Incorporate smart-grid technologies



Align with other state energy and environmental policies



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# City of Fresno



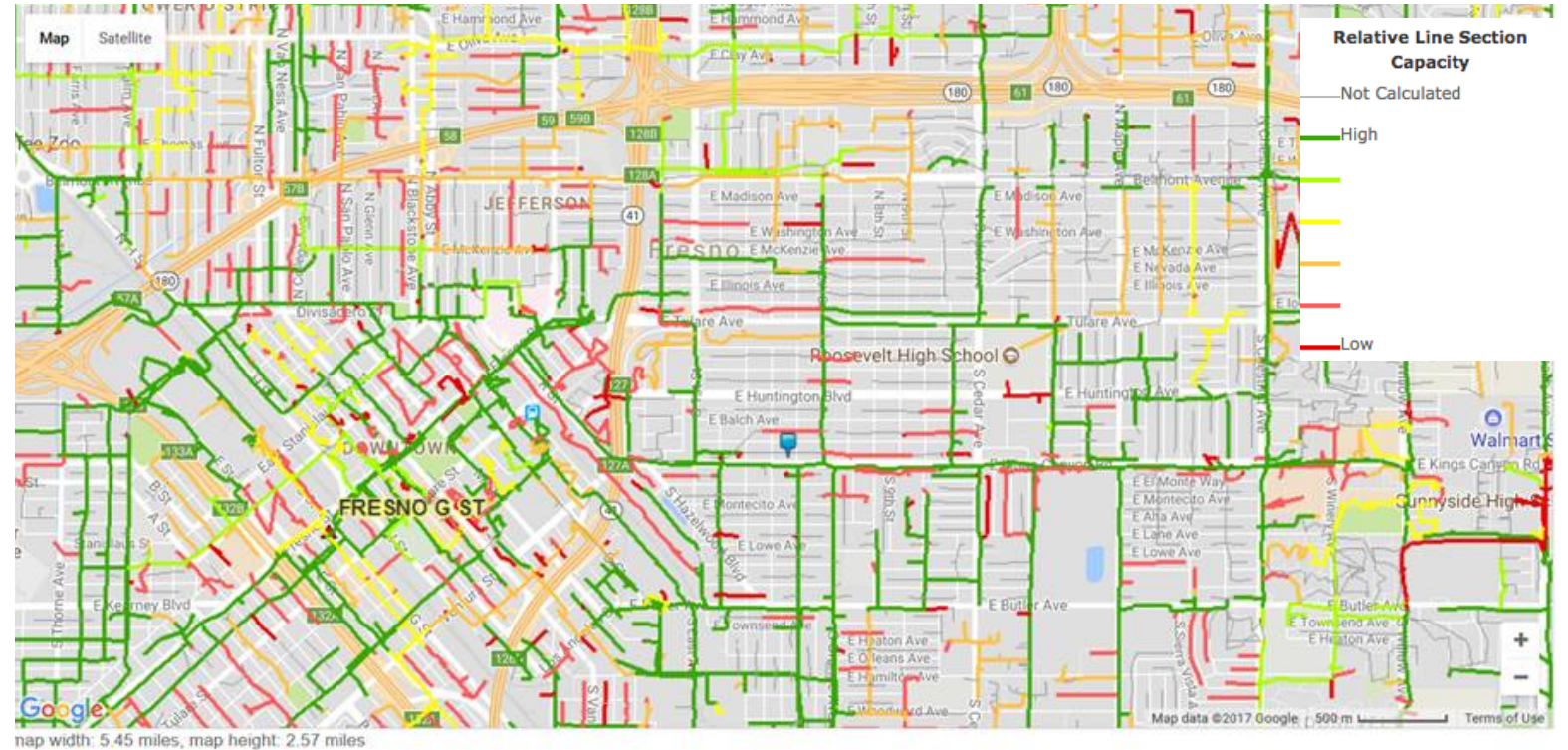
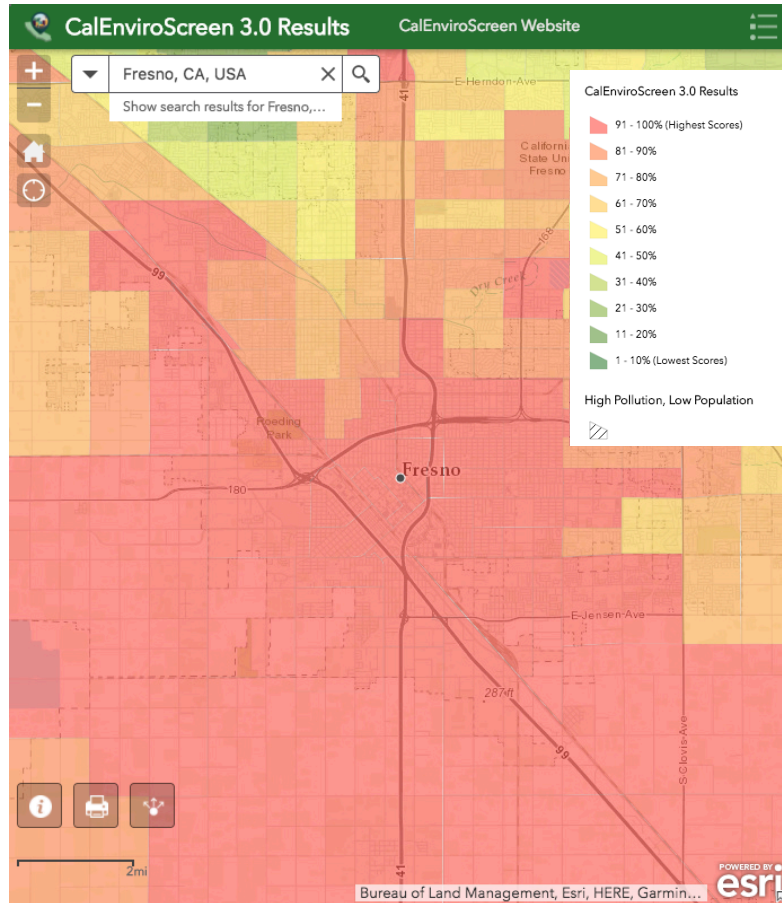
Source: LGC



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# City of Fresno



# Energize Fresno

Rolling Portfolio  
of Projects

Alignment with  
Local & State  
Policies

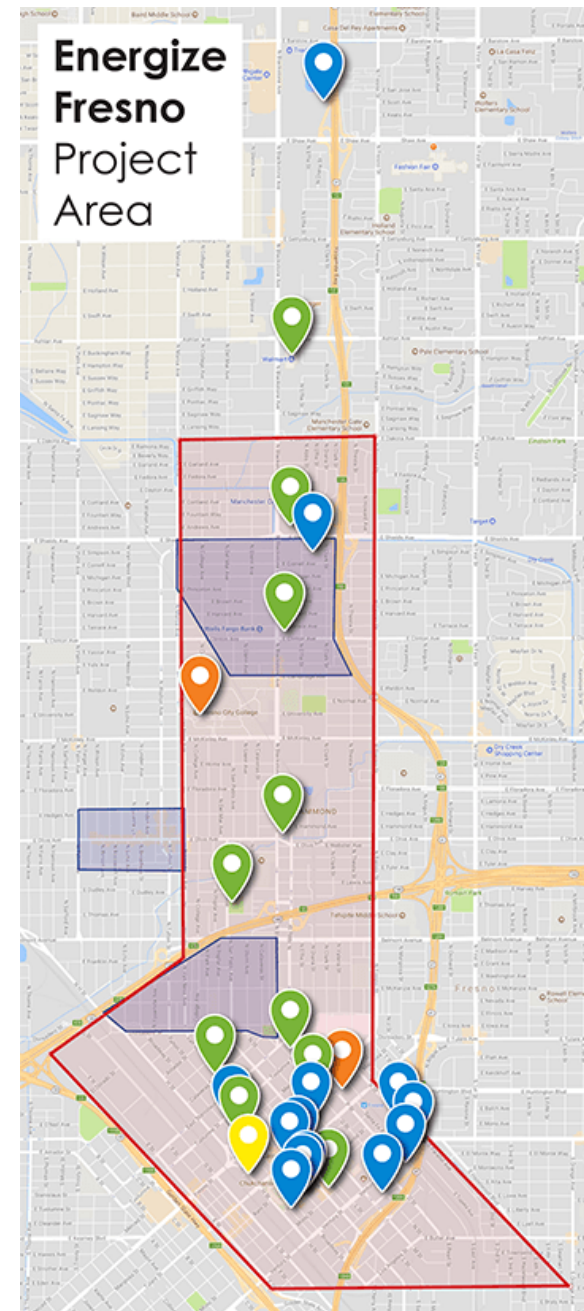
Stakeholder  
Engagement

Comprehensive  
Resource Savings  
Opportunities

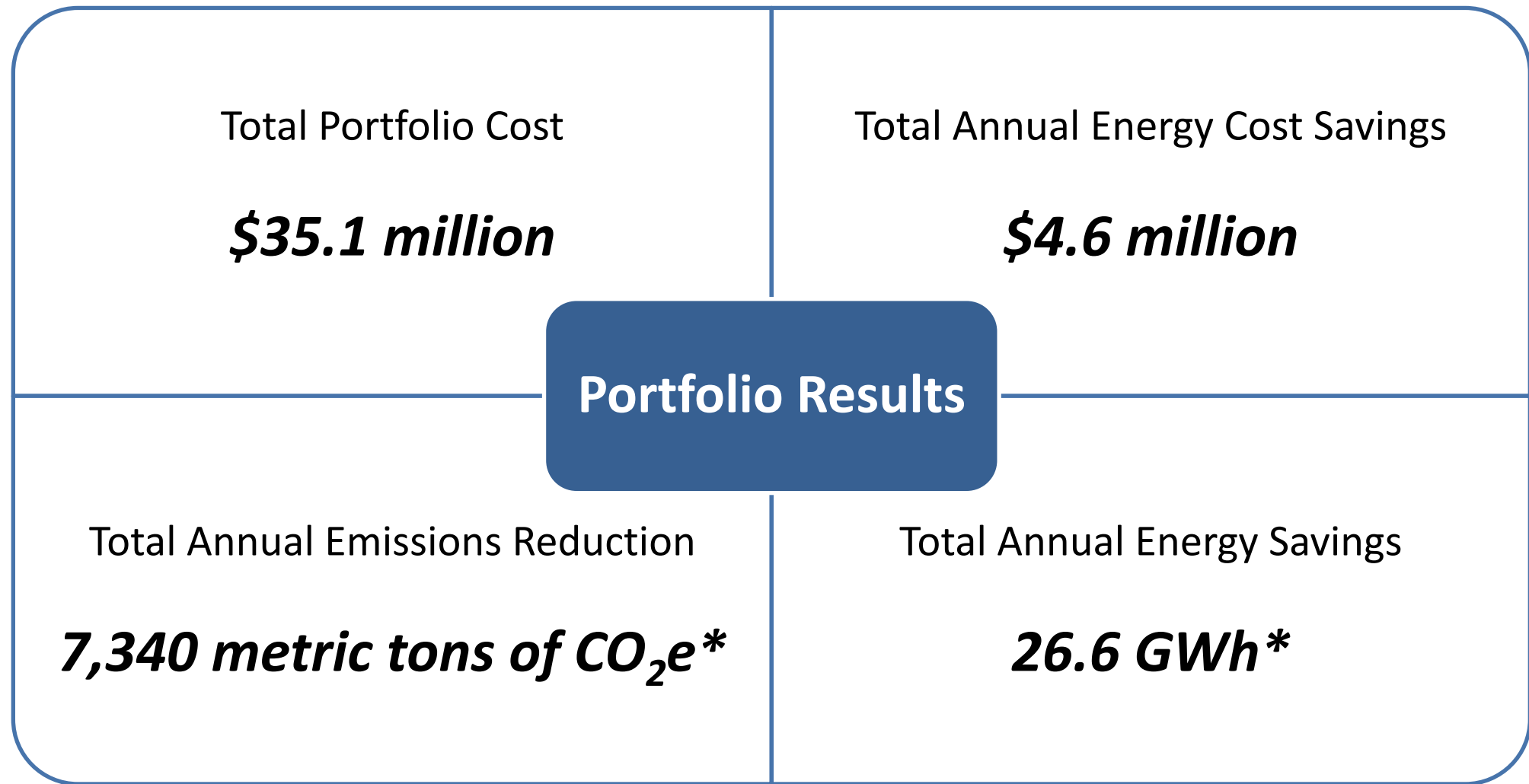
New Funding  
Sources & Funding  
Aggregation




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- Development Sites
- EV Charging Sites
- High Speed Rail
- Activity Centers
- Energy Opportunity Zone
- Program Target Areas



\*  x 1,572/year

\*  x 2,968/year



# Development Sites



Source: LGC

- 13 individual buildings in the mid to large commercial sector
- **Estimated Cost:** \$7.4 million
  - **Phase II Grant Contribution:** \$3.3 million
  - **Anticipated Energy Cost Savings:** \$1.6 million per year
  - **Anticipated GHG Emissions Reduction:** 1,395 metric tons CO<sub>2</sub>e per year



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# Activity Centers

City of Fresno municipal operations and Fresno City College

- **Estimated Cost:** \$17.7 million
- **Phase II Grant Contribution:** \$2.8 million
- **Anticipated Energy Cost Savings:** \$2.2 million per year
- **Anticipated GHG Emissions Reduction:** 3,391 metric tons CO<sub>2</sub>e per year



Source: LGC



Source: Wikipedia



# Development Sites & Activity Centers: Technologies for Deployment

## Energy Efficiency

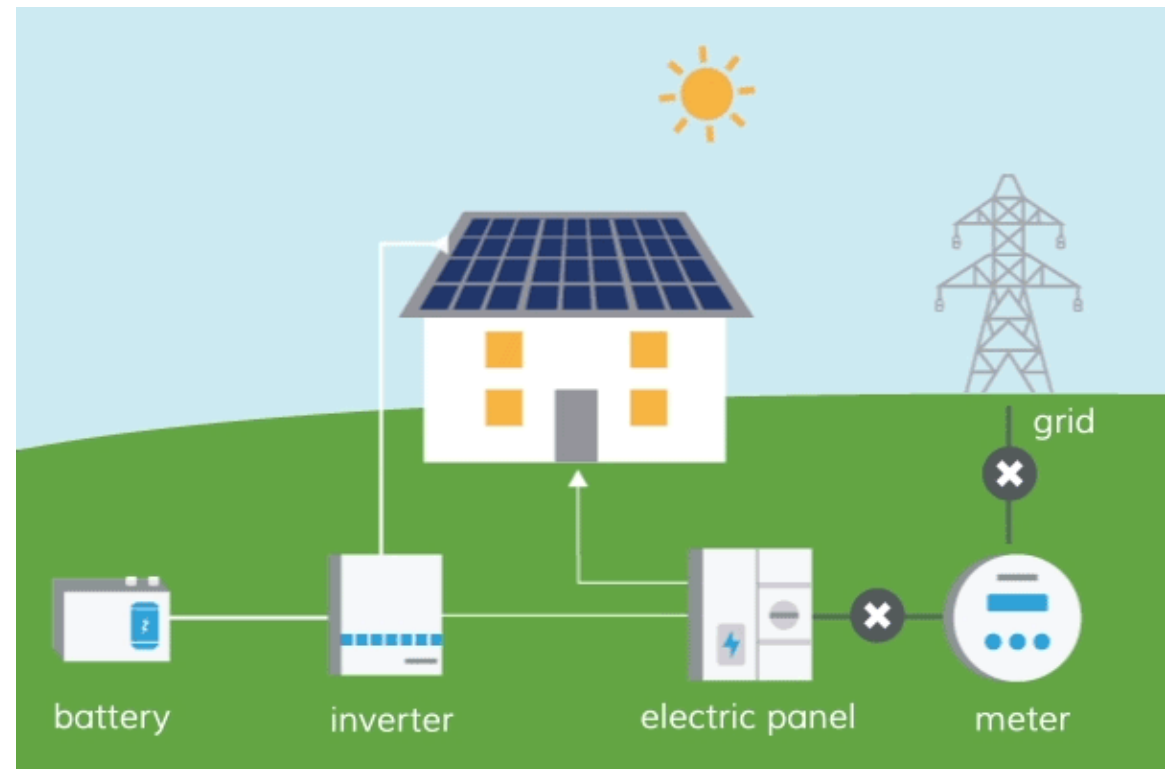


Source: Home Depot



Source: Covington Air Systems

## Solar + Grid Interactive Management



Source: EnergySage

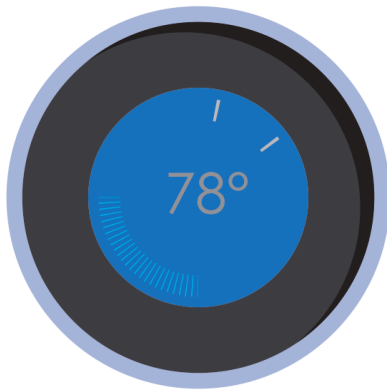
# Program Enhancements

Enhancements to the existing **Home Energy Tune-Up** and **Business Energy Tune-Up** programs operating in Fresno

- **Estimated Cost:** \$3.5 Million
- **Phase II Grant Contribution:** \$3.5 Million
- **Anticipated Energy Cost Savings:** \$845,900 per year
- **Anticipated GHG Emissions Reduction:** 2,234 metric tons CO<sub>2</sub>e per year

# Program Enhancements: Technologies for Deployment

## Direct Install Smart Thermostats



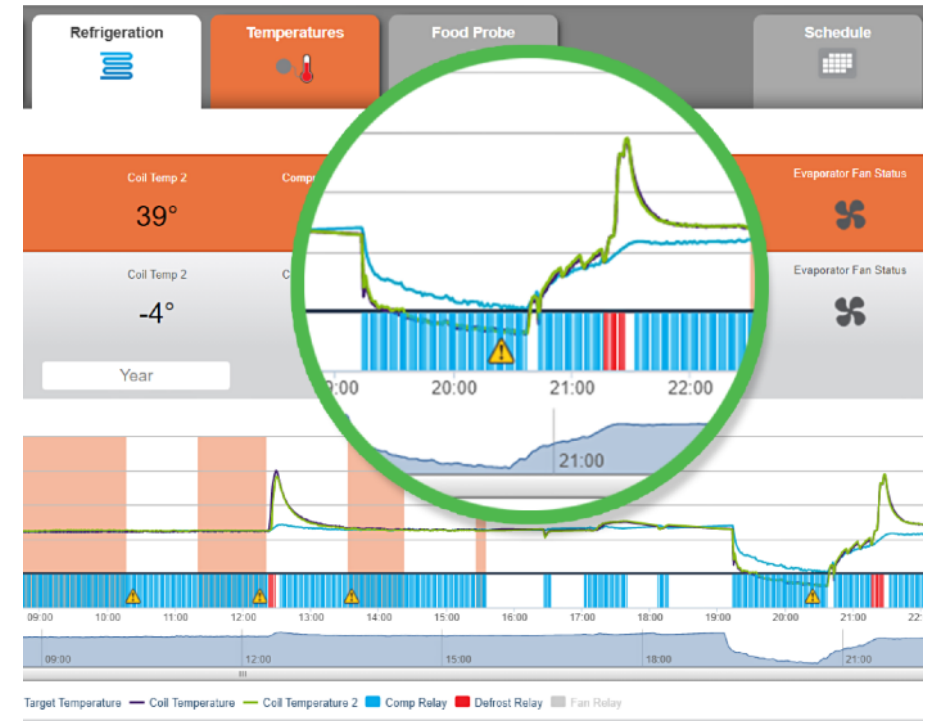
Source: LGC

## Direct Install Weatherization



Source: Weatherization Works!

## Online/Mobile Energy Management



Example of a small commercial refrigeration system dashboard

# Electrification of Transportation



Source: CALSTART



Source: Envision Solar

20 DC Fast Chargers

5 autonomous, solar-powered EV ARCs

- **Estimated Cost:** \$2.2 Million
- **Phase II Grant Contribution:** \$2.2 Million
- **Anticipated GHG Emissions Reduction:**  
320 metric tons of CO<sub>2</sub>e per year



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# What does this mean for Fresno?

## Residents



- Lower energy bills
- Less pollution
- Higher home value
- More comfortable homes

## Local Businesses



- Lower energy bills
- Better manage energy use and consumption

## Developers



- Lower energy bills
- Higher rent
- More comfortable
- Ability to generate, store, and use own energy



# Energize Fresno Results

Questions?



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# Energize Fresno Funding Platform

[www.funding.lgc.org](http://www.funding.lgc.org)

## Search instructions

- 1 Users may search the Funding and Financing Product Catalog using any of the filters provided below.
- 2 All fields are optional.
- 3 Hold down **Ctrl** to select and deselect multiple items in a field.
- 4 For registered users, searches may also be saved, then subsequently retrieved or removed in the Saved Searches page (you must be logged in to see saved searches).

<b>Category</b>	Financing Funding Service Provider	<b>Type</b>	Bond Fee Waiver Grant PACE Financing
<b>Territory</b>	California City of Fresno Fresno County Pacific Gas and Electric San Joaquin Valley	<b>Applicant type</b>	For Profit Non Profit Private Resident Public Agency
<b>Sector</b>	Agricultural Commercial Industrial Public	<b>Sub-sector</b>	Agriculture and Food Processing City Commercial County
<b>Sustainability</b>	Electric Vehicles Energy Efficiency for Processes Energy Efficiency in Buildings Energy Management System Energy Storage	<b>Project</b>	Infrastructure Construction New Addition to an Existing Building Production Process Improvement Real Estate and Asset Purchases

Cancel

Search

New search

Success! Your search returned 6 out of 238 products.

## Search details

**Territory** Fresno County  
**Applicant type** For Profit  
**Sector** Commercial  
**Sustainability** Energy Efficiency in Buildings

Download results

Modify

Clear

Name	Category	Type	Territory	Implementer	Applications open	Applications close	Website
<a href="#">Central Valley Business Energy Tune-Up</a>	Funding	Rebate and Technical Assistance	Fresno County	City of Fresno	01 Jan 2017	31 Dec 2017	<a href="#">Website</a>
<a href="#">Enterprise Loan</a>	Financing	Secured Loan	Fresno County	Fresno CDFI	09 Jan 2017	01 Mar 2017	<a href="#">Website</a>
<a href="#">Fresno First Bank Hybrid Crowdfunding Loan Program</a>	Financing	Secured Loan	Fresno County	Fresno First Bank	01 Jan 2017	31 Dec 2017	<a href="#">Website</a>
<a href="#">Micro-enterprise Loan</a>	Financing	Secured Loan	Fresno County	Fresno CDFI	01 Jan 2017	31 Dec 2017	<a href="#">Website</a>
<a href="#">Power Loan</a>	Financing	Secured Loan	Fresno County	Fresno Community Development Financial Institution	01 Jan 2017	31 Dec 2017	<a href="#">Website</a>
<a href="#">State Small Business Credit Initiative Loan Guarantee Program</a>	Financing	Secured Loan	Fresno County	Valley Small Business Development Corporation	01 Jan 2017	21 Apr 2017	<a href="#">Website</a>



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# Energize Fresno Funding Platform

Questions?



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# Fresno Green

## Existing Framework

- City program to incentivize green development
  - Expedited or low-cost review
- Prioritizes historical preservation
- Limited funding

## Updated and Aligned Framework

- Up to current code
- Aligned with General Plan
- Prioritizes energy and water savings
  - Supports AEC development



# Fresno Green: Project Example

## Development Info

- Adaptive reuse of existing building in EOZ
- Residential/commercial mixed use
- Located near public transportation
- Tenants in new commercial space will create long-term jobs
- 15% residential units for affordable housing
- Turf replacement for water conservation
- Bike lockers
- Solar power for 40% energy usage offset
- Waste compactor
- Plant shade trees for hardscapes
- Cool pavements
- EV charger
- Vertical parking garage for residents
- Exceed standards for envelope performance
- High-efficiency appliances
- Energy management system

## Fresno Green Benefits

This project would receive about 40% of the points available in the nonresidential Fresno Green checklist

What incentive (if any) do you think this project should receive?



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# Fresno Green Tiered Benefits

Threshold Points	Fresno Green Designation	Points	Benefits
Tier 4	Bronze	40%	?
Tier 3	Silver	55%	?
Tier 2	Gold	65%	?
Tier 1	Platinum	80%	?



# Next Steps

EPIC AEC Grant Phase II:  
\$14 million competitive grant  
(Open only to Phase I grant recipients)



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