

# Energize Fresno - Technical Roadmap

*Creating an energy-independent Fresno, one neighborhood at a time.*

Energize Fresno is a new initiative, launched with \$1.5 million in grant funding from the California Energy Commission, to design a roadmap for creating an Advanced Energy Community that will lower energy costs for households and businesses while driving new economic opportunities for Fresno. Successful completion of this project in late 2017 allows Energize Fresno to apply for up to \$14 million in additional funding to fully implement the roadmap design. The project will initially focus on the Downtown and Blackstone Corridor priority planning areas, but the roadmap can be applied citywide when fully developed. The following provides an overview of the technical tasks, work products, and delivery schedules for the Energize Fresno project.

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The Energize Fresno project will define a **Project Pipeline** that utilizes Fresno's existing policy and development plans, stakeholder input, and additional research, to compile a comprehensive list of projects that are financially viable, align with current policy goals and timelines, and, upon implementation, produce verifiable savings of energy, greenhouse gas, and water. The Project Pipeline includes the following work products and delivery schedules:



- A project **Technical Advisory Committee (TAC)** will be formed that will provide the team with executive guidance from key stakeholder. (Q3 2016)
- A **Community Scope Report and Community Delivery Capacity Profile** that defines how various planning initiatives and local stakeholders can be coordinated to develop and drive the project pipeline (Q4 2016)
- A **Comprehensive Project Pipeline Report** that defines the set of projects to be implemented beginning in 2018. (Q3 2017)

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The project will also develop a **Funding Platform** that defines the full range of funding and financing products available to support large infrastructure projects, as well smaller building level projects identified in the project pipeline. The Funding Platform will produce the following work products and delivery schedules:



- A **Funding Library and Market Study** that defines the funding and financing options available for sustainability projects in Fresno, and how these are being used and where gaps might exist. (Q1 2017)
- A **Funding Integration Methodology** that define how the funding mechanisms defined in the Funding Library can be combined, layered, and cross-leveraged in a way that maximizes returns on investment on the Project Pipeline. (Q2 2017)
- A **Funding Database** that will provide a user friendly and updatable summary of the funding and financing options defined in Funding Library and Market Study. (Q3 2017)

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A **Verification Toolkit** will be developed that defines the best-in-class tools necessary to accurately verify, record, and report all resources that can be saved by building out the Project Pipeline. The toolkit will also specify a data recording and reporting infrastructure that aggregates the savings from individual projects and reports communitywide savings to state agencies in a way that is consistent with the respective policy goals. The Verification Toolkit will produce the following work products and delivery schedules:



- An **Inventory of Verification Protocol** and **Technical Resources Memo** that identifies the tools used to verify savings from various types of projects (e.g. energy efficiency, water conservation, electricity storage, etc.) for the benefit of investors and regulators. (Q4 2016)
- A **Verification Methods and Implementation Specification** that shows which verification protocols will be applied to each project. (Q2 2017)
- A **Data Recording Infrastructure Design** that defines how savings will be reported in a way that aligns with all Fresno and state energy and environmental goals. A data recording system that reports verified savings may be subsequently used to help Fresno obtain additional funding from various state and federal initiatives targeting energy efficiency, green-house gas reductions, water conservation, and health and safety issues. (Q3 2017)

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This component of the project will use the Project Pipeline and financial model outputs developed under the preceding tasks to develop a **Master Community Design** with the following work products and delivery schedules:



- A **Fresno Master Community Design** that provides a complete summary of information for Fresno Decision Makers. The Master Community Design will include local project details from the Project Pipeline layered against financing options drawn from the Funding Platform with projections of resource savings from the Verification Toolkit. (Q4 2017)
- A **Community Recommendations Report** will provide specific recommendations the City of Fresno can use to implement Advanced Energy Community initiatives. The team will conduct a series of informational sessions for City council and a workshop for decision-makers to share the outcomes of the project, including an implementation roadmap. (Q4 2017)

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Ultimately, Energize Fresno will provide a development platform that can be used by communities across the state— helping to raise the visibility of energy, water, and transportation investment opportunities in Fresno.

*Energize Fresno is a partnership between the Local Government Commission, the City of Fresno, Fresno Metro Ministry, CALSTART, and Tierra Resource Consultants, funded by the California Energy Commission to accelerate the deployment of advanced energy communities.*

For more information, visit <http://www.lgc.org/Energize-Fresno>.

