

CalSEED

Investing in clean technology entrepreneurs

Apply February 15th for \$150,000



CalSEED

CalSEED will grant \$24MM to ~100 entrepreneurs over 5 years
Funded by California ratepayers through the Electric Program Investment Charge (EPIC)
Made possible by the California Energy Commission (CEC)



CALIFORNIA
ENERGY COMMISSION

Concept Award Solicitation

The California Sustainable Energy Entrepreneur Development Initiative grants up to \$600,000 to early stage clean energy concepts and provides professional development resources



Concept Award

\$150,000

Concept Development & Assistance

Mentorship from entrepreneurial experts and industry leaders

Introduction to resources to advance the concept



Prototype Award

\$450,000

Successful Concept Awardees prepare for Commercialization

Business Plan Competition to push awardees to think in a commercialization area

Eligibility Applications open from February 15 – 28
Visit www.calseed.fund to apply!

Program Partners

Our unique program represents an innovative public-private partnership between the State of California and a diverse group of organizations leading California's energy transformation



Regional Cluster Partners



Bay Area Regional Innovation Cluster

Activation Energy assist hard technology innovators bridge the science-to-product gap to develop groundbreaking energy products.

<http://www.activationenergy.org/>



Central Valley Regional Innovation Cluster

The Bluetech Valley Innovation Cluster is located in the heart of the San Joaquin Valley, a unique water-scarce ecosystem.

<http://bluetechvalley.org/>



Los Angeles Regional Innovation Cluster

LACI is located in the Cleantech Corridor, Los Angeles' cornerstone of the green economy strategy.

<https://laincubator.org/>



San Diego Regional Innovation Cluster

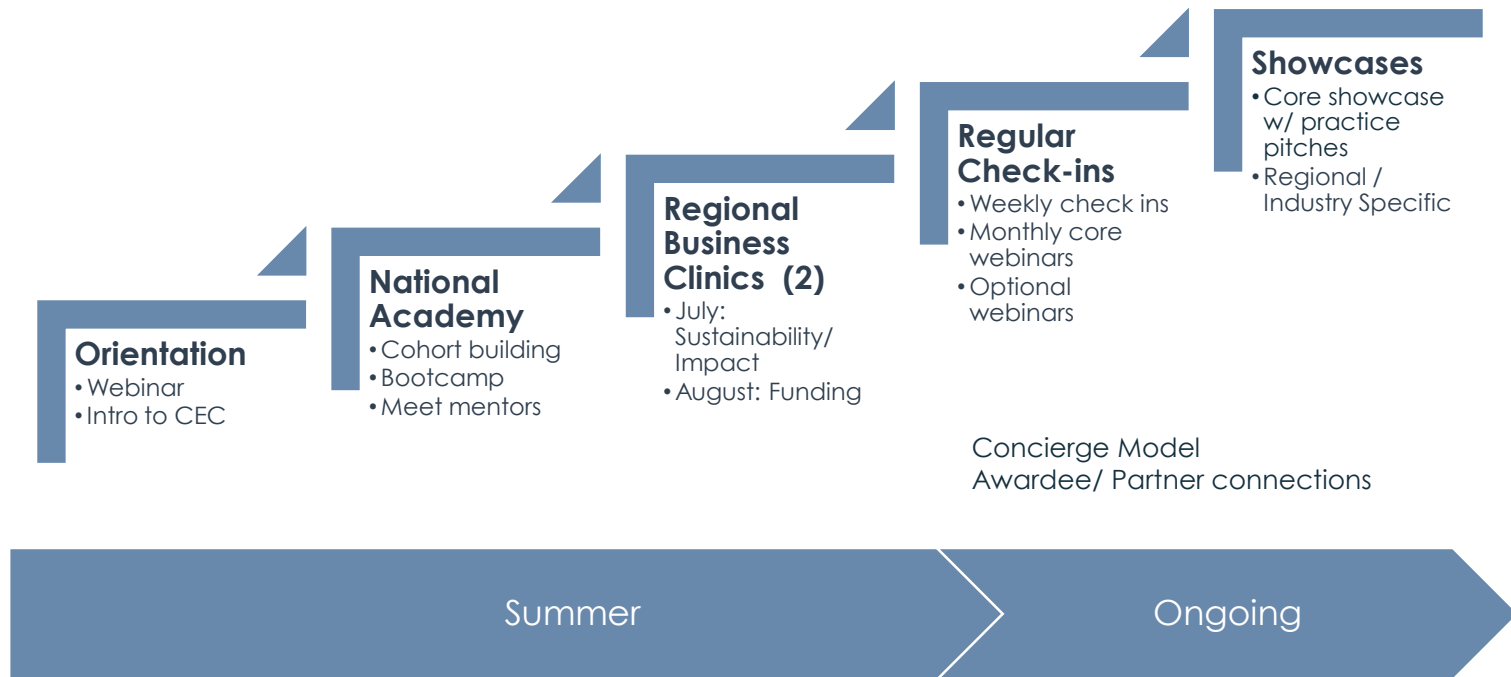
Cleantech San Diego works directly with cleantech entrepreneurs to develop a customized plan that includes access to advisory support, technology commercialization services, and proof-of-concept and pilot testing.

<http://cleantechsandiego.org/sdrein/>

Professional Development

Entrepreneur Journey

Entrepreneur Journey



Concierge Model
Awardee/ Partner connections

Bold = in person

Cleantech Open Accelerator Program

TRAINING

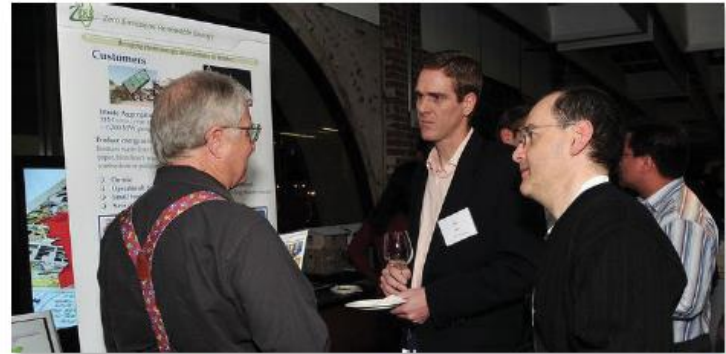
National Academies,
National Webinars and
Regional Training

Practice Judging and
Business Clinics

MENTORING

Local and international
mentors (generalists and
specialists)

Business Clinics



ACCESS TO CAPITAL

Relationship with Strategic
Investors, Angel Groups
and VC firms

Pitch Panels, Networking,
Investor Connect



SHOWCASING

Regional events
and showcases

National Conference
and Global Forum

Press exposure

Program Benefits

CalSEED Awardees will access benefits to develop a concept and prepare for the Prototype Award Business Plan Competition.

Grant dollars

A powerful network

Mentorship

Operational and
technical resources

Online training

Legal counsel

Regional Innovation
Clusters

Cleantech Open
Accelerator

Community

CalSEED 2017 Awardees



Who can apply?

CalSEED is open to applicants working on early stage innovations—from concept to basic prototype.

You must meet a few basic requirements:

- The proposed innovation should benefit California ratepayers
- The concept should be pre-demonstration scale (Technology Readiness Level 2-4)
- You must be located in California and provide your California address

The application is open to:

- Individuals/Teams
- Businesses
- Nonprofit Organizations
- Academic Institutions

What will CalSEED fund?

Solutions focused on creating greater reliability, lower cost, reducing emissions and/or increased safety for California's electricity grid. For example:

- Storage solutions
- Energy efficiency
- Lighting
- Power plant improvements
- Increased use or improved applications of smart inverters
- System and/or home modeling tools
- Heating/cooling energy efficiency
- Smart Grid components
- Generation (e.g. solar, bioenergy, wind, and geothermal)

Hardware, Software, & Integrated Solutions

	Hardware	Software	Integrated Solutions
Description	Physical components	Programs /applications that enhance hardware	Innovative combinations of software and hardware
In Scope Examples	<ul style="list-style-type: none"> • Battery chemistry • PV technology • T&D infrastructure improvements • Electric vehicle technologies 	<ul style="list-style-type: none"> • Algorithms for grid reliability/control • Internet of Things applications • Demand response solutions 	<ul style="list-style-type: none"> • Vehicle to grid tech • Microgrid solutions • Building efficiency optimization • Community access to clean energy
Out of Scope Examples	<ul style="list-style-type: none"> • Project financing for existing technologies • Manufacturing scale up • Natural gas projects 	<ul style="list-style-type: none"> • Customer acquisition • Games • Website development for an existing company • Training/workforce development platforms 	<ul style="list-style-type: none"> • Single non-replicable solutions • Concepts that are not novel in application

What is “early stage”?

Hardware

- Analytic studies / modeling
- Proof of concept
- Basic functionality validated in laboratory

Software

- Alpha versions
- Preliminary requirements defined
- Basic principles coded

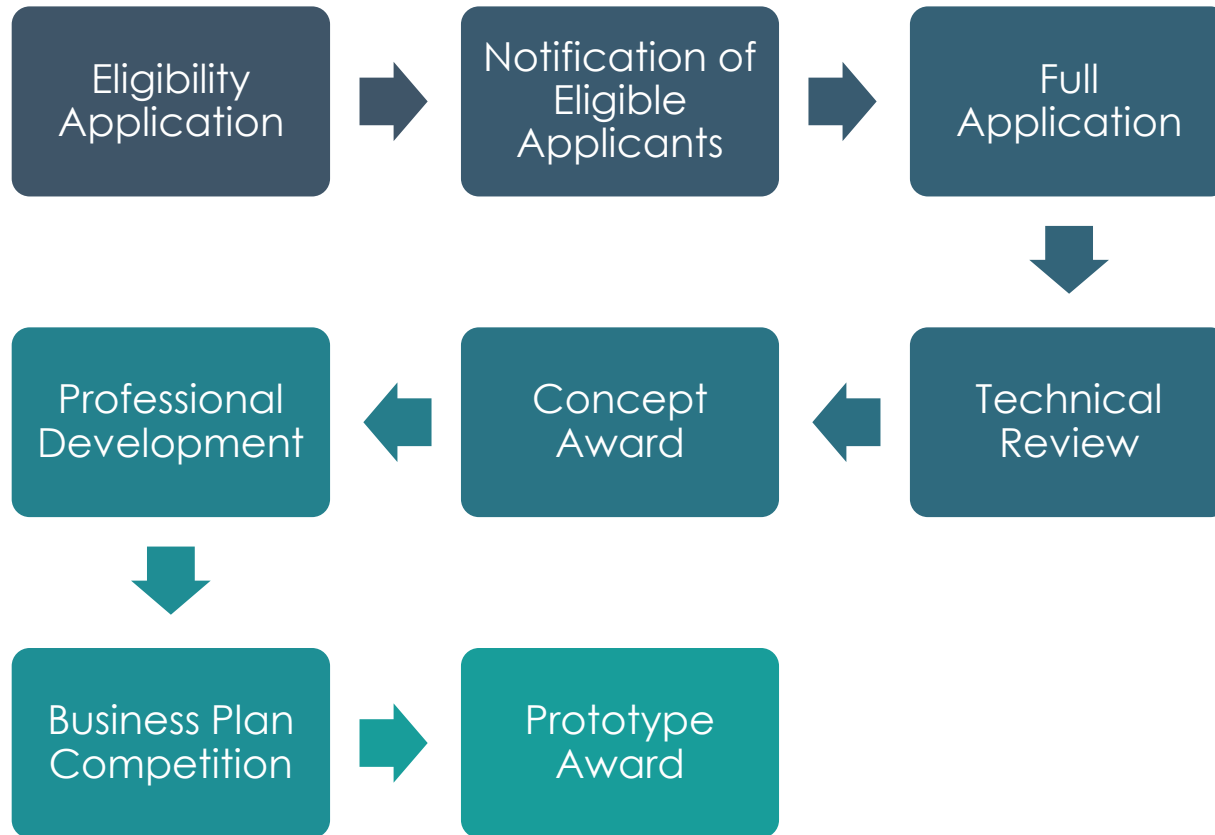
Integrated Solutions

- Preliminary mapping or combining
- Minimal integration
- Early testing
- Identification of system components

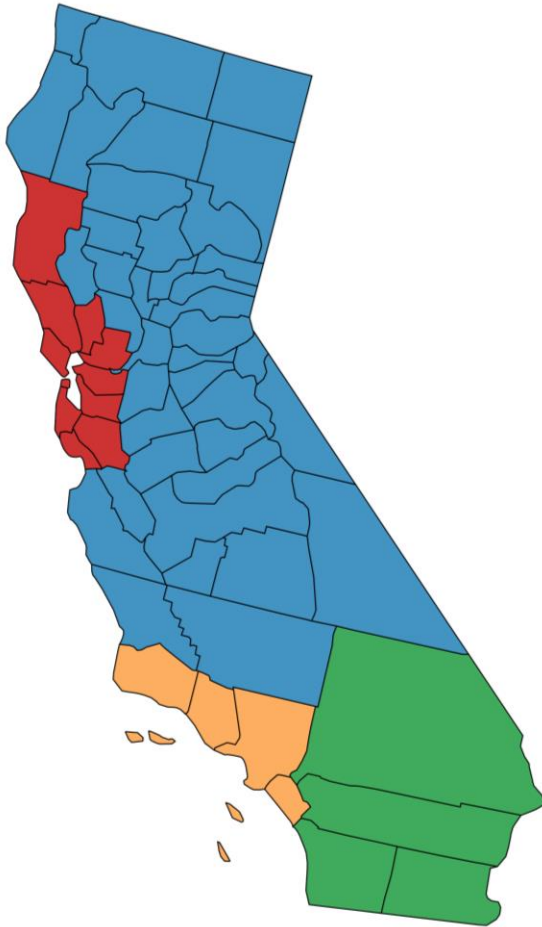
You are probably too late stage if your technology...

- works smoothly (considered operational/debugged)
- is beyond a pilot scale prototype
- is currently being manufactured
- is certified/commercialized
- is successfully incorporated in a larger system
- software is classified as 'beta'
- has a full scale demonstration
- is revenue-generating or profitable
- has existing customers

How does it work?

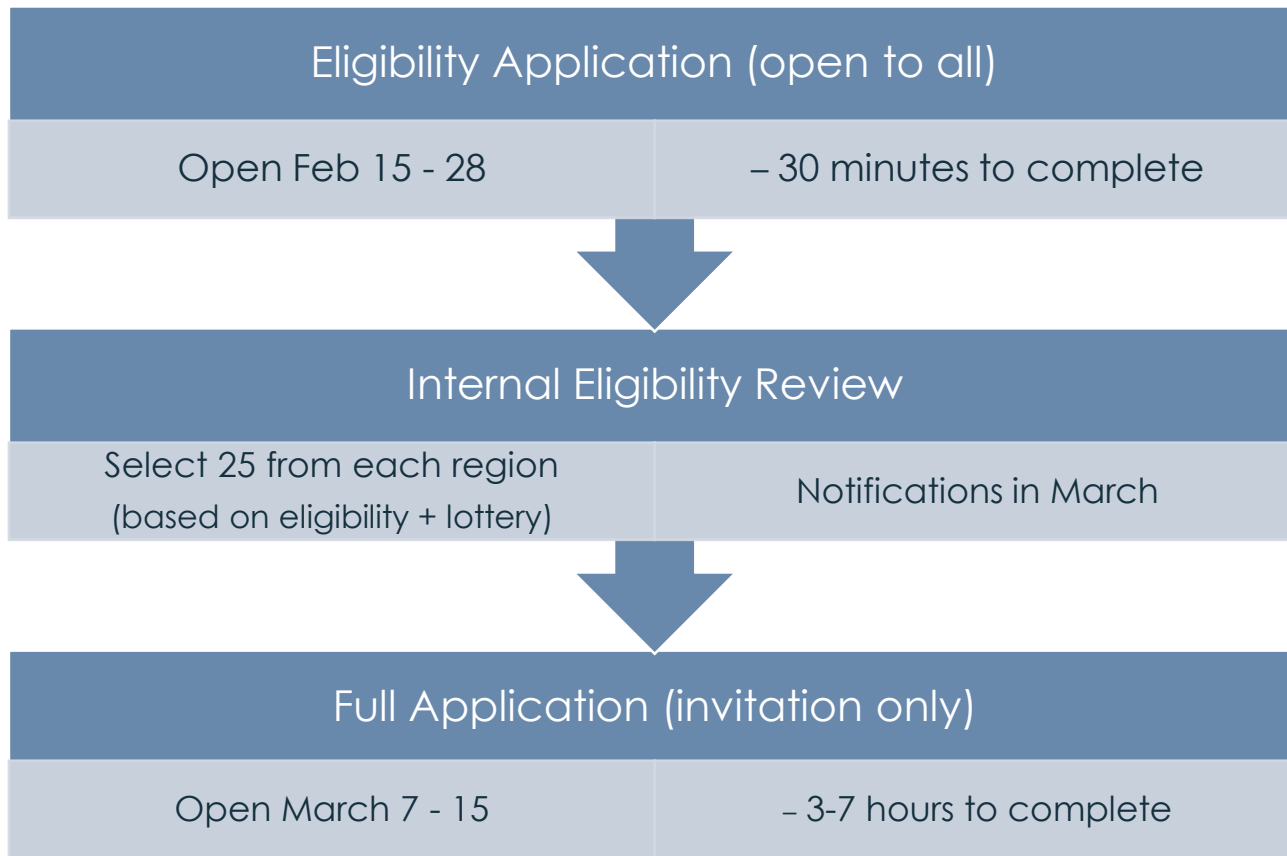


Solicitations by Region



- Regional solicitations to achieve greater geographic diversity
- Applicant region is determined based on official business address (or home address if applying as an individual)
- One application per lead applicant
- One application per concept

Two Rounds of Applications



Application Process

Both parts of the application can be completed and submitted entirely online.

As part of the **eligibility application**, you will be asked to:

- Provide basic information about yourself
- Briefly describe your clean energy concept

As part of the **full application**, you will be asked to

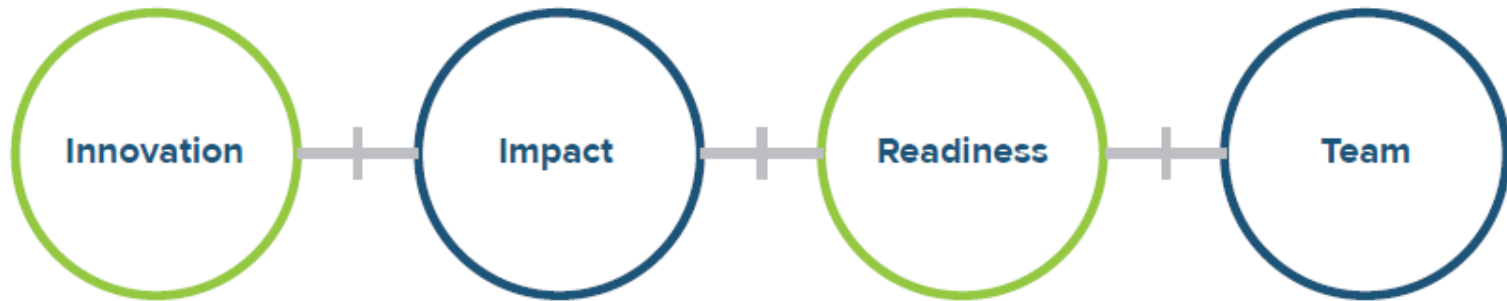
- Answer questions in detail about your innovation, its potential impact, your plans with the CalSEED award, and your team
- Provide optional Letters of Support

Refer to the application manual at www.calseed.fund for more detail, including all application questions

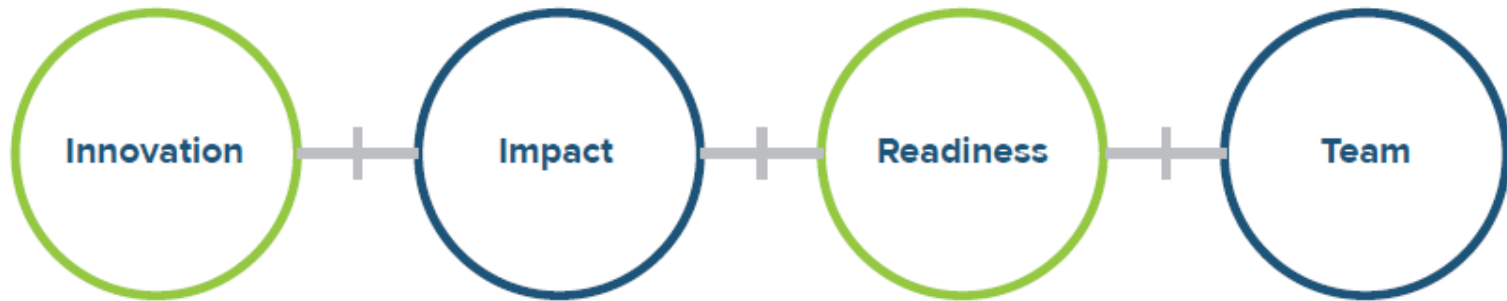
Technical Advisory Committee

Review Process

Review Process



Review Process



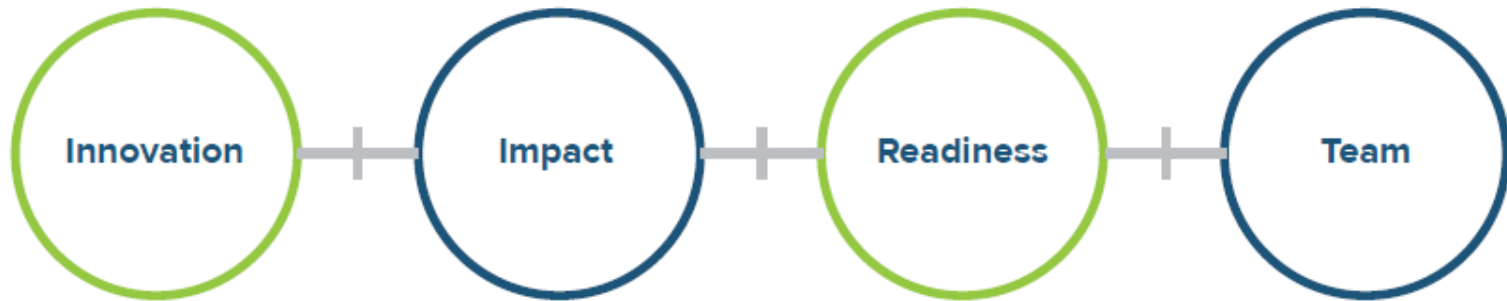
Innovation

Is your project goal achievable?

Do you understand the key technical and commercial challenges?

How would your project improve upon existing products or solutions?

Review Process



Impact

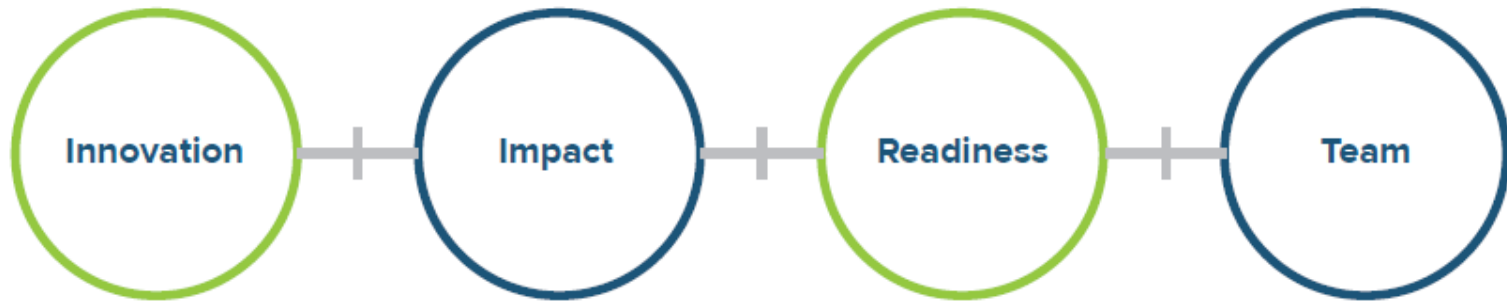
How will you benefit CA ratepayers?

What communities would benefit from your innovation?

How would your project increase access to clean energy within disadvantaged communities?

What economic development opportunities will you create?

Review Process



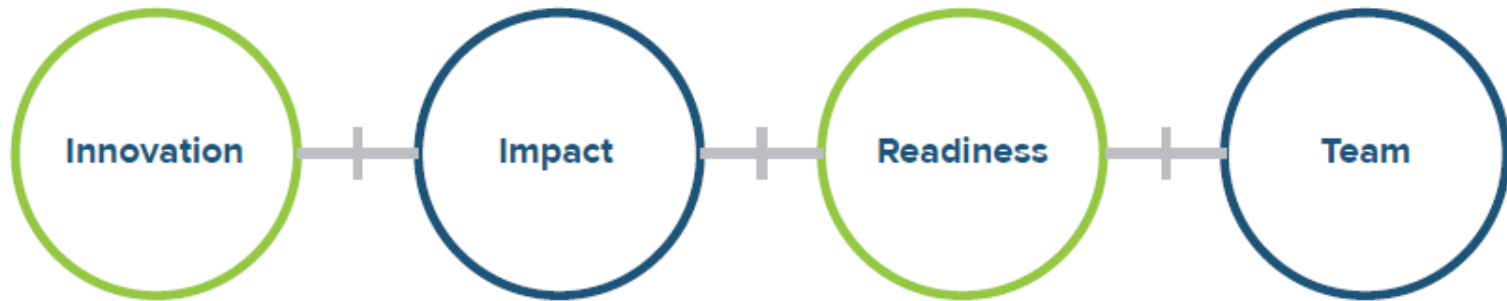
Readiness

How would you use your Concept Award funds?

What would be your milestones and deliverables?

How feasible is your plan?

Review Process



Team

Who is on your team?

Why is your team the right team?

What have you done before that would contribute to the success of this project?

Contact Us

info@calseed.fund

California Clean Energy Fund
CalSEED Grant Manager
436 14th Street
Suite 1220
Oakland, CA 94612