

**allcove Beach Cities
Construction, Wellness &
Sustainability Update**



Mission

To enhance community health through partnerships, programs and services for people who live and work in Hermosa Beach, Manhattan Beach and Redondo Beach.

Vision

A healthy beach community.



Presentation Overview

- Funding Opportunities Update
- Project Pillars
- Youth Feedback ✕
- Design, Sustainability & Wellness
- Cost Considerations
- Schedule



Project Pillars



Health

- Build a center of excellence focusing on wellness, prevention & research
- Leverage the campus to expand community health programs & services



Livability

- Focus on emerging technologies, innovation & accessibility
- Create an intergenerational hub of well-being, using Blue Zones Project principles



Community

- Actively engage the community & pursue partnerships
- Grow a continuum of programs, services & facilities to help older adults age in their community

allcove Beach Cities

allcove center

LEED

Young people accessing allcove

allcove Accelerator

WELL

allcove Youth Advisory Group

HCAI3

Blue Zones

allcove Service Providers



Intersection of the environment and mental health



Climate anxiety — an intense worry, fear, sadness, or stress about climate change — is widespread among young people. A recent study found that around 90 percent of young people nationally reported feeling some level of worry about climate change, with over 40 percent feeling very or extremely worried.

“Climate anxiety in children and young people and their beliefs about government responses to climate change: a global survey”

- Lancet Planet Health 2021



Intersection of the environment and mental health



California youth are acutely aware of climate change's impact given their location and express even greater concern about its effect.

80% of California youth say they have experienced at least one mental health-related issue as a result of consuming climate change-related news, including feeling anxious, stressed, or overwhelmed.

- Blue Shield of California's second annual NextGen Climate Survey 2022



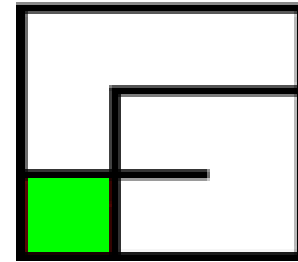
Goal

Create a healthy and sustainable center of excellence that encourages innovation and emerging technologies, demonstrates the “space as therapy,” and prioritizes inclusivity and accessibility for young people utilizing allcove Beach Cities





Beach Cities
Health District



FORSTRATEGY
CONSULTING, INC.

Updates on Initiatives and Funding Opportunities

Where we left off:
“Accomplishments and Future Deliverables”

Examples of New Ideas

- **Partnerships and grants can fill a financing void - and reduce operations and maintenance costs**
- **Strategy and communications around decarbonization = health impacts and grant monies**
- **All Type 1 construction vs some Type 3 and 5 construction = possibility for cost savings and modular construction**



Seed Consulting Report

Next Steps for Beach Cities

Partnerships

Adapt pitch deck, and begin discussions with potential partners.

Stakeholders

Implement website recommendations and begin pitching stories to local media.

Grants/Credits

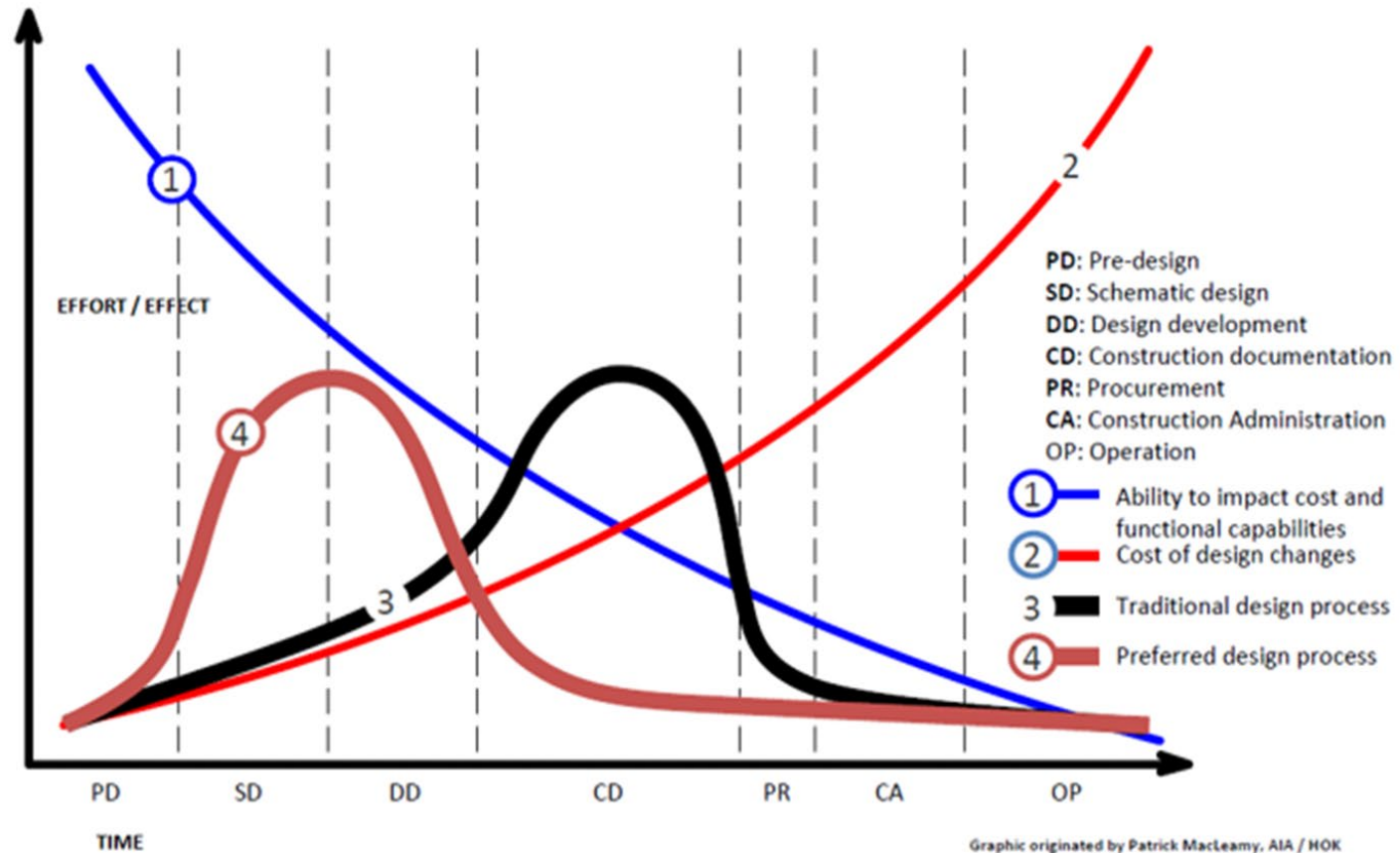
Apply for key grants and rebates set out in the report and identify key tax credits to reduce costs.

Cost Benefit

Detailed cost benefit analysis: calculate the energy and water savings from specific technologies as well as investment costs and identify where and to who savings accrue.





How Do We Do That?




Introduced/Investigating Modular Construction





 Innovation

 Reduced time in Precon
Reduced time on site


 Cost Savings


 Time Value of Money

 Less Reliance on Hard-to-Find Labor


 Learn Something New


 Media Attention


 Progressive Construction Method


 Reduce Inefficiencies

 Use of Smaller and More Competitive Sub-Trade Companies

 Less Material Cost Fluctuation


 Better Quality Assessment & Quality Control

 More Security During Construction Processes

 Less Noise on Site

 Less Congestion on Site

 Less People Needed on Site

 Less Subject to Weather Related Construction Issues

Community Benefits of Modular Construction



Reduced noise on Site as 70% of the building is done off-site.



Reduced construction parking.



Reduced construction traffic.



Reduced human footprint on Site.



Reduced site trash as 70% of the building is done off-site.



Construction phase timeline is 20-40% shorter.



Greater Security due to Speed of Installation (10-12 module sets per day)

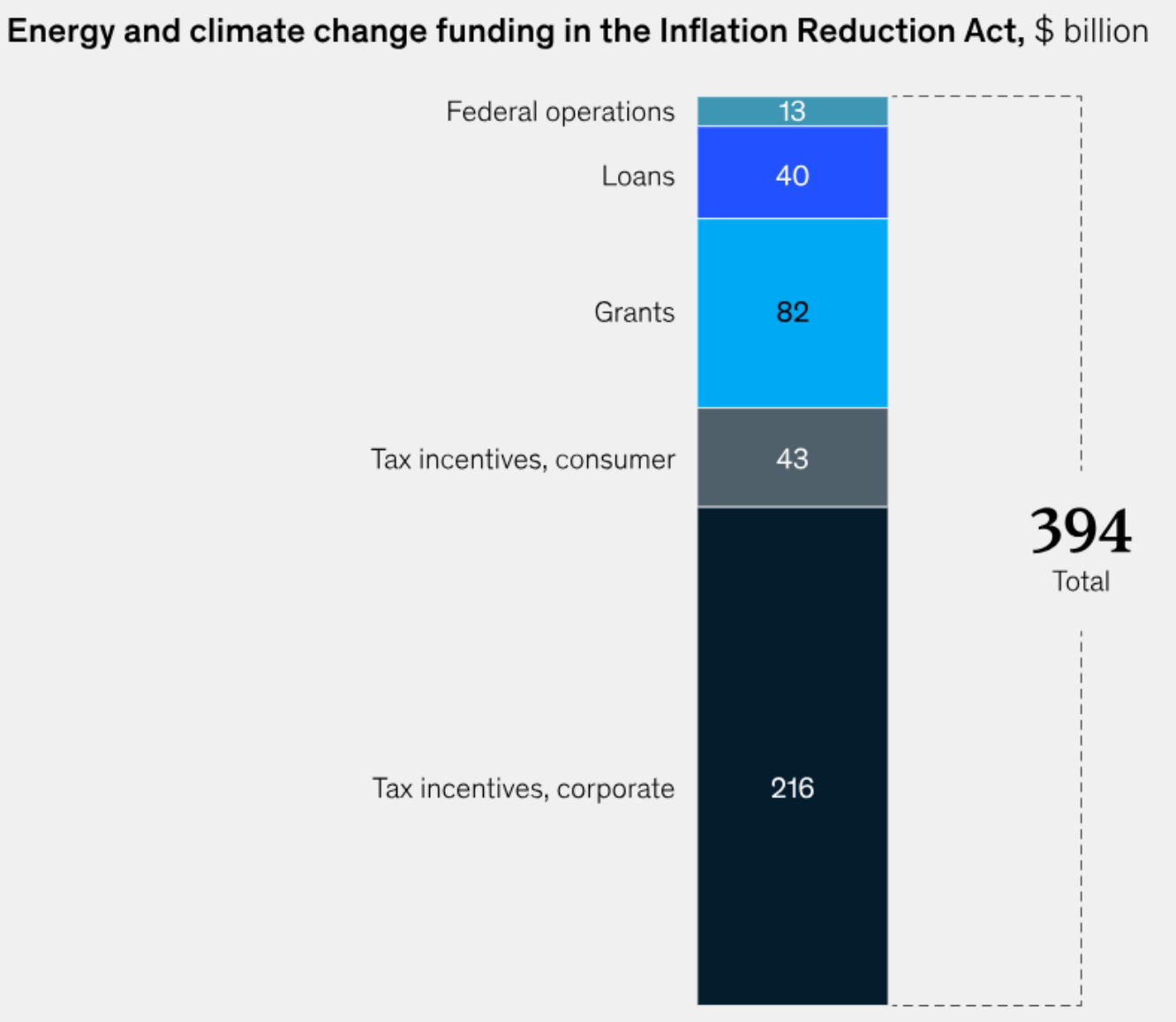


The Building is sealed up and secure in days/weeks instead of months.



Less Material being delivered to site that can be subject to theft and vandalism.

Why Focus on Decarbonization Opportunities



Why Focus on Decarbonization Opportunities

ACCELERATING THE CLEAN ENERGY TRANSITION WITH EPIC

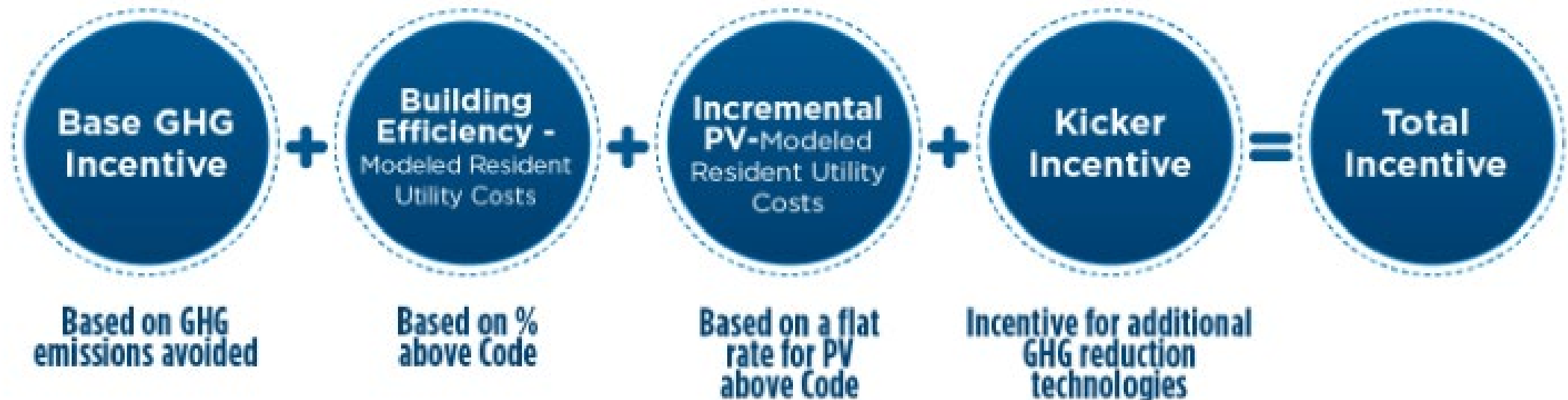
Continued energy innovation will play a key role in ensuring California benefits from clean, affordable, safe, and reliable energy – propelling the state as the world’s fourth largest economy while advancing leading-edge climate change solutions.

EPIC INVESTMENTS (2012-2022) **\$1.1 BILLION FOR 474 PROJECTS**

 Clean Energy Entrepreneurial Ecosystem \$236 million	 Grid Decarbonization & Decentralization \$223 million
 Resiliency & Safety \$195 million	 Industrial & Agricultural Innovation \$119 million
 Building Decarbonization \$249 million	 Zero-Emission transportation \$86 million

Why Focus on Decarbonization Opportunities

Program Cap: \$2 Million Per Applicant



Why Focus on Decarbonization Opportunities

TAX CREDIT ELIGIBLE

Hybrid Heat Pump Water Heater
(15 AMP plugin model)



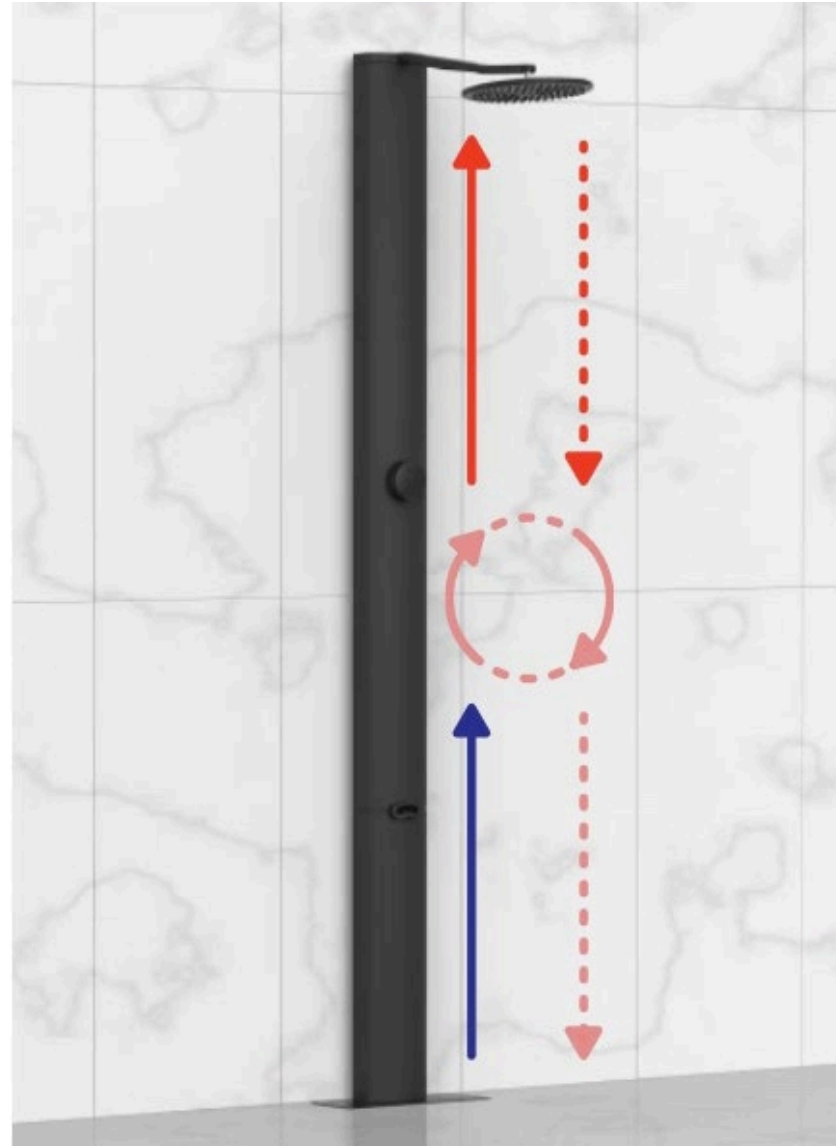
up to
\$2,000
Tax Credit*

Visit energystar.gov for details

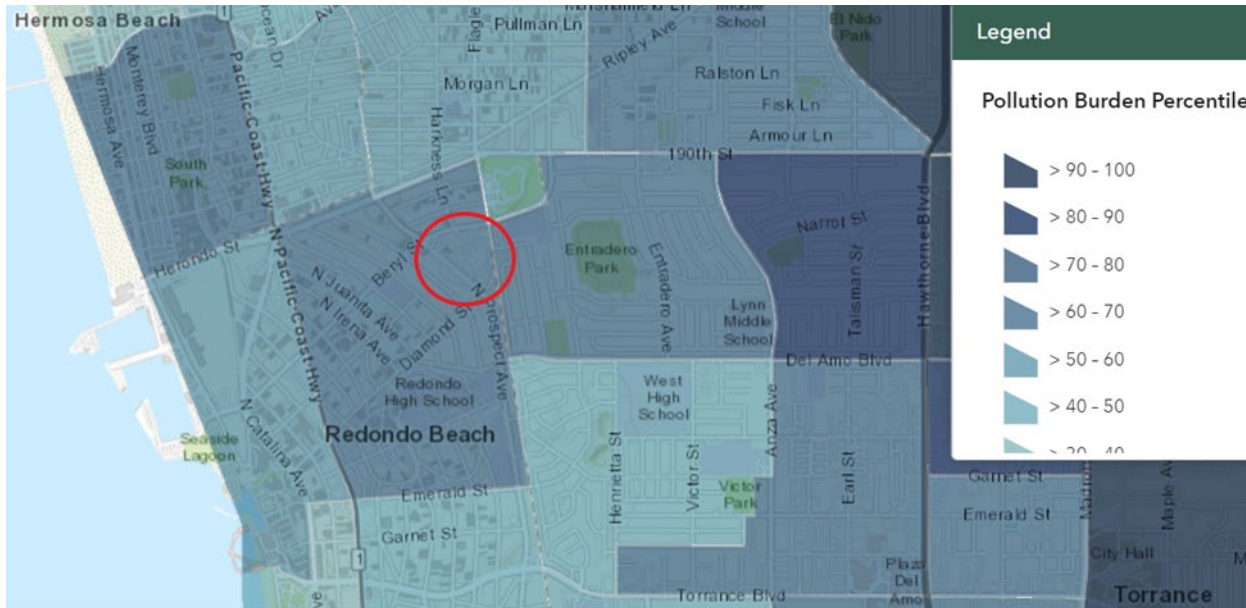


*Effective January 1, 2023. Tax Credit limited to 30% of the cost of equipment & installation up to \$2,000. Consult a tax advisor for qualifications and visit energystar.gov for additional details

Why Focus on Decarbonization Opportunities

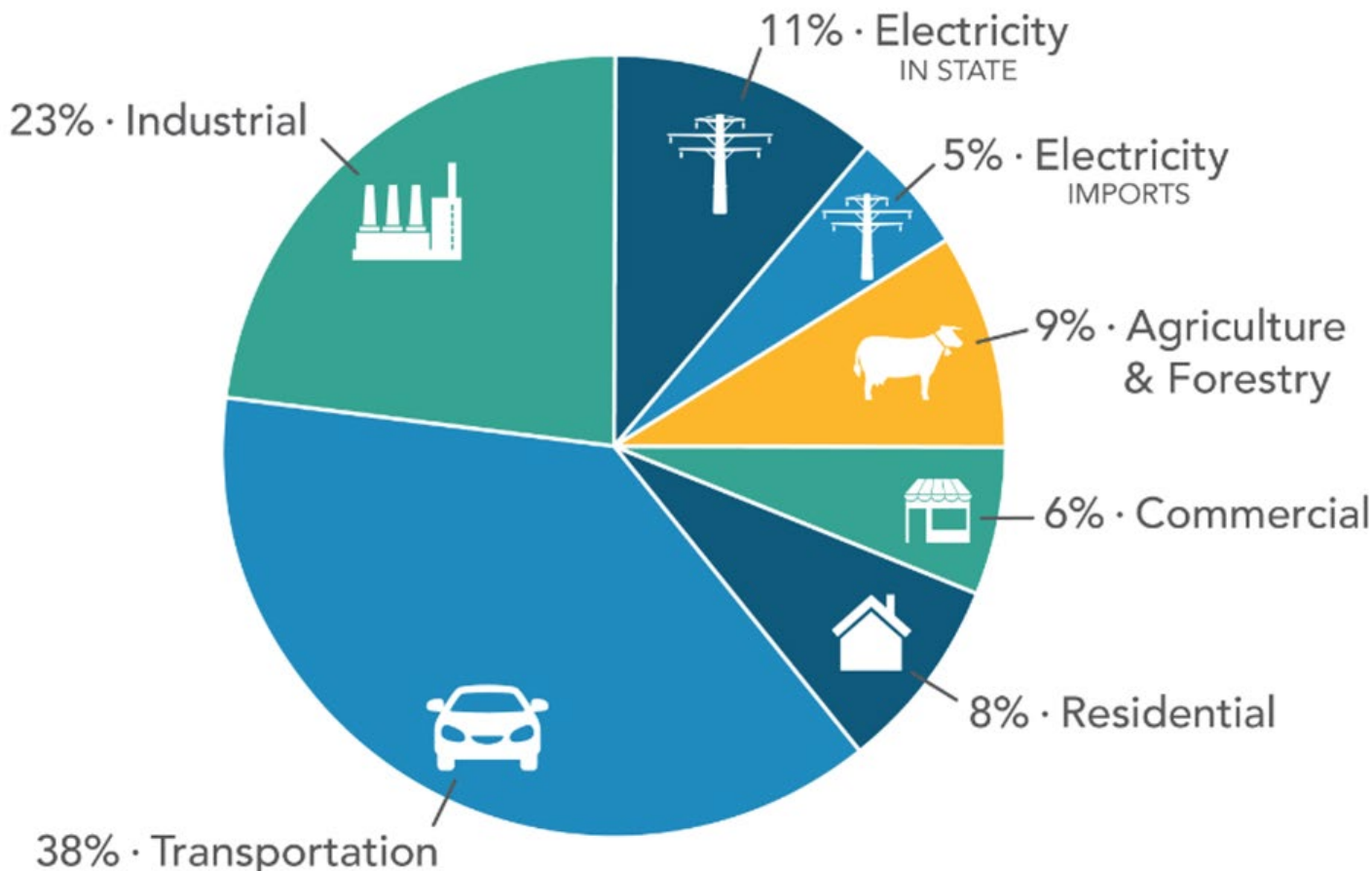


Why Focus on Decarbonization Opportunities



Pollution Burden:	70
Population:	6724
CalEnviroScreen 4.0 Percentile:	21
Ozone:	27
PM 2.5:	73
Diesel PM:	56
Pesticides:	0
Toxic Releases:	94
Traffic:	35
Drinking Water Contaminants:	20
Lead in Housing:	30
Cleanups:	64
Groundwater Threats:	53
Hazardous Waste:	70
Impaired Water:	72
Solid Waste:	70

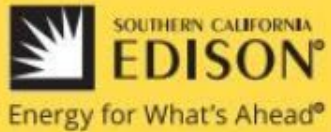
Why Focus on Decarbonization Opportunities



369.2 MMT CO₂e
2020 TOTAL CA EMISSIONS

Why Focus on Decarbonization Opportunities

\$3,500/port



CHARGE READY PROGRAM

Electric vehicle charging solutions for multi-family, public sector, and commercial properties.

Why Focus on Decarbonization Opportunities



**CHANGE
IS COMING**

ELECTRIC CONSTRUCTION VEHICLES



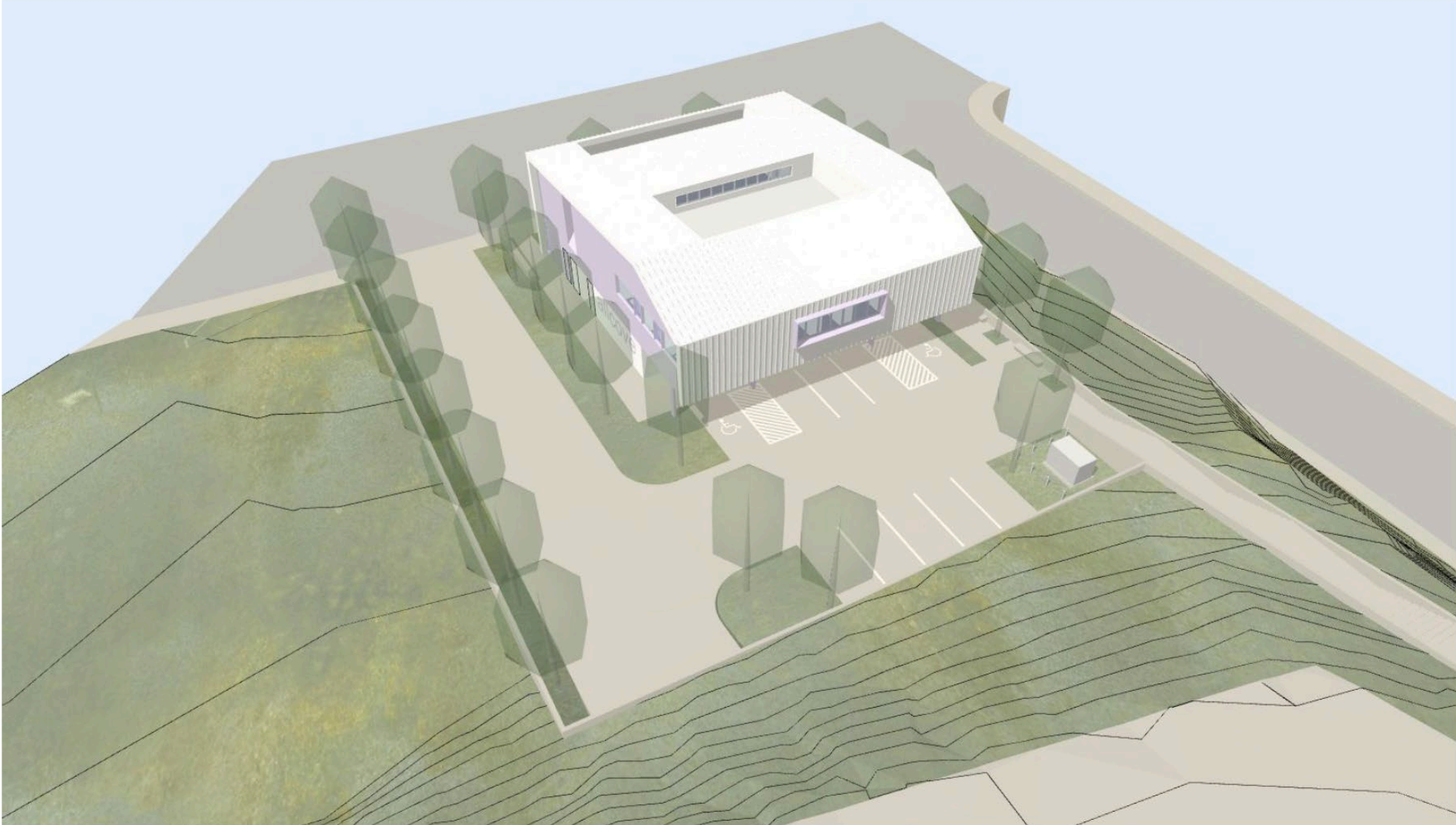
Preliminary Design and Space Planning



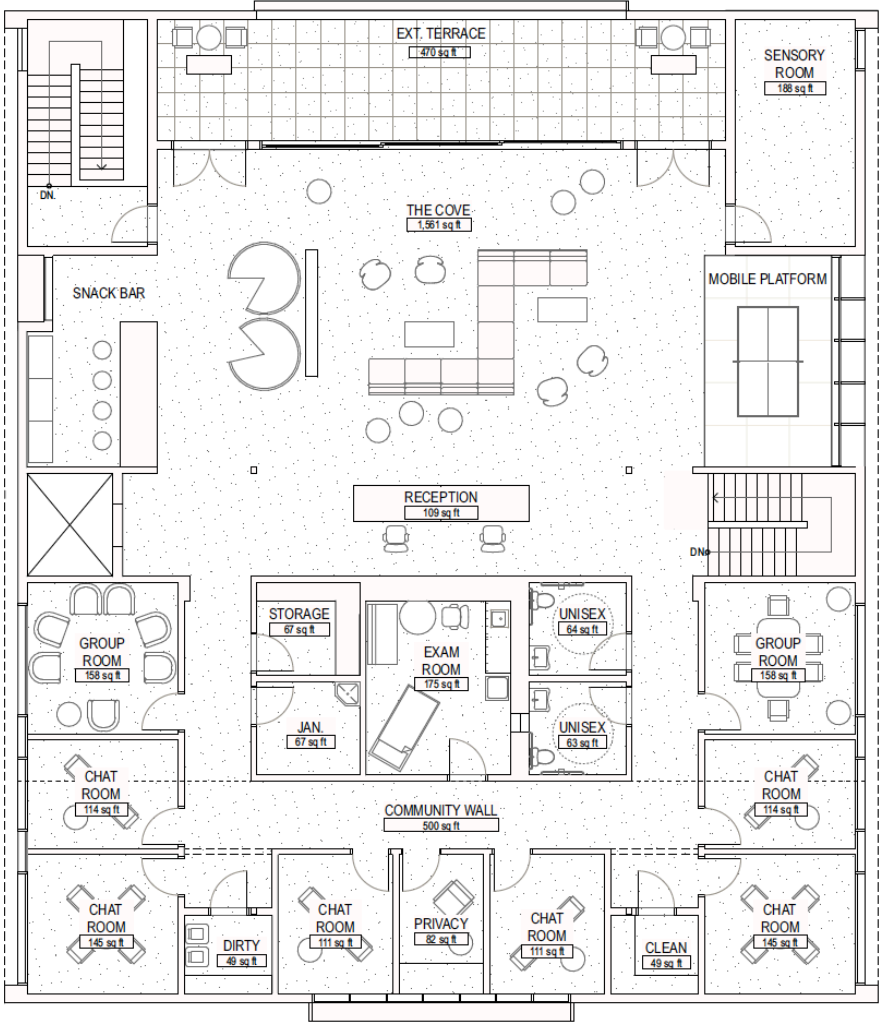
PAUL MURDOCH ARCHITECTS



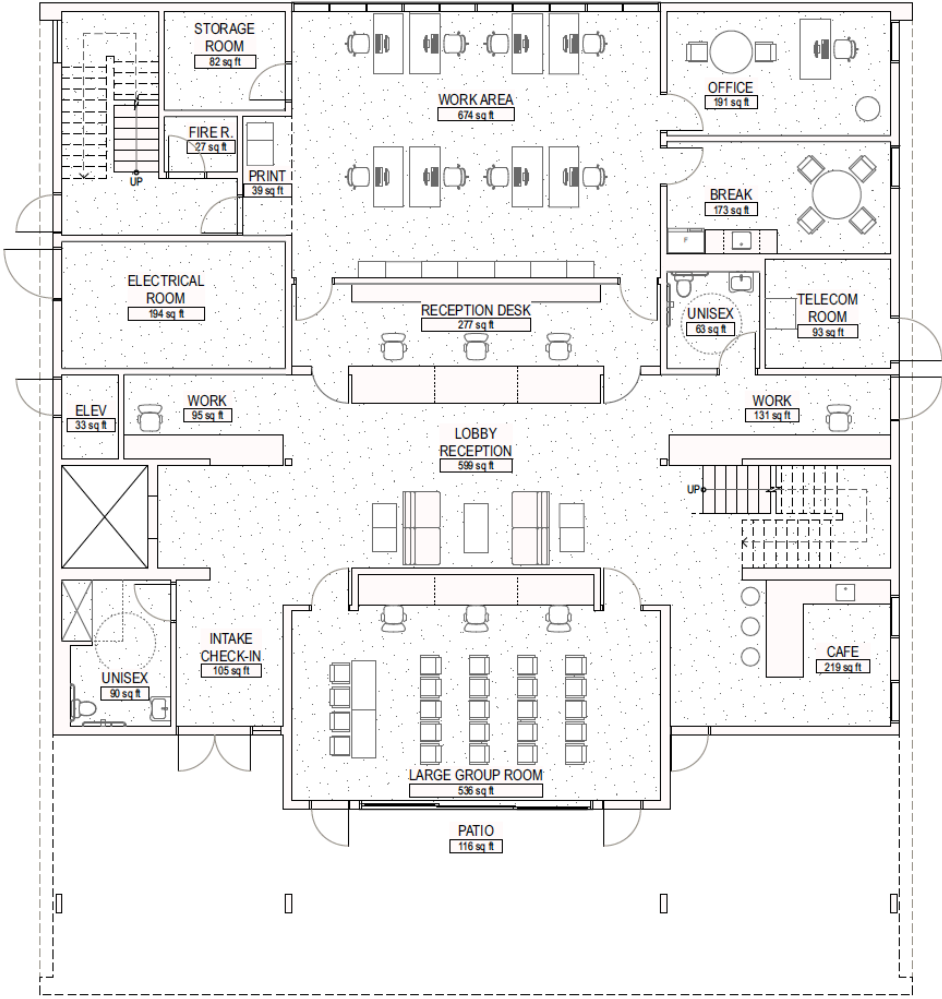
3D Perspective – Aerial



Space Layout



SECOND FLOOR



FIRST FLOOR

3D Perspective – View 01



3D Perspective – View 02



3D Perspective – View 03



3D Perspective – View 04



3D Perspective – Section



Sustainability and Wellness

LEED

Leadership in Energy and Environmental Design
U.S. Green Building Council

Focuses on environmental impact and sustainability

- Air Quality
- Lighting & Energy
- HVAC Efficiency
- Construction
- Environmental & Social Impact*
- Materials & Resources
- Water Management
- Site Location*
- Wellness



**Unique to LEED*

WELL

WELL Building Standard
International WELL Building Institute

Focuses on the overall impact to human health and well-being

- Air Quality
- Lighting & Energy
- HVAC Efficiency
- Construction
- Materials & Resources
- Water Management
- Sanitation*
- Wellness
- Food & Nourishment*

**Unique to WELL*

allcove Beach Cities – Capital Investment Budget



Funding Sources	Budget
Grant Funding – State	\$6,336,702
Grant Funding – Federal	\$500,000
BCHD Match	\$532,498
TOTAL FUNDING SOURCES	\$7,369,200



Modular vs. Traditional Cost Comparison*



TOTAL FUNDING SOURCES: \$7,369,200

	Modular Construction	Conventional Construction
Base Building Cost	\$5,780,000	\$6,800,000
Site Development	\$950,000	\$950,000
Schedule**	14 Months	19 Months
TOTAL	\$6,730,000	\$7,750,000

* Rough cost figures are preliminary and will be refined further after preliminary design milestone is completed

** Based on start of final design date of 11/1/23



Cost Comparison* with Design, Sustainability and Wellness

	Modular Construction	Conventional Construction
Base Building Cost (LEED Gold)	\$5,780,000	\$6,800,000
Site Development	\$950,000	\$950,000
Schedule	14 Months	19 Months
TOTAL	\$6,730,000	\$7,750,000
Design Upgrades (Terraces, Equipment Well, Overhangs)	\$500,000	\$500,000
HCAI3 (MEP Systems and Soft Costs)	\$650,000	\$650,000
EV, PV & Other LEED Platinum Elements (Assessing)	\$1,100,000 TBD?	\$1,100,000 TBD?
WELL	TBD	TBD
Blue Zones	TBD	TBD
Project Feasibility	Currently Assessing	Review Complete
TOTAL WITH OPTIONS	\$8,980,000	\$10,000,000

* Rough cost figures are preliminary and will be refined further after preliminary design milestone is completed

Modular Construction Summary

KEY ADVANTAGES

Project would focus on delivering a simple cost-efficient space for the allcove team to quickly get up and running in a new facility.

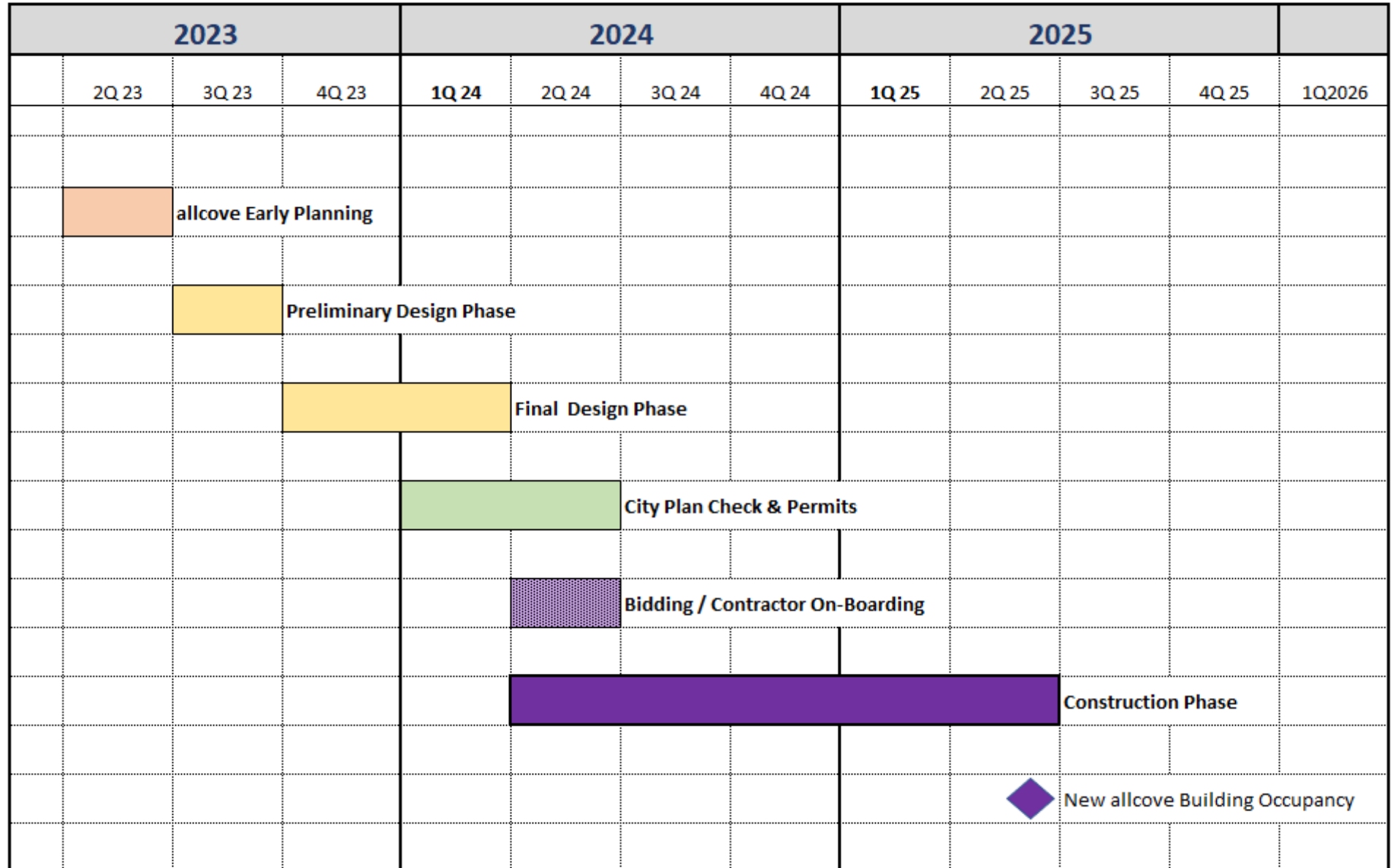
- Cost - typically 15%-20% savings
- Timeline – 4-5 months earlier occupancy
- Base Building would be design-built
- Operations – all needed space and amenities for allcove program will be provided
- Long-Term Occupancy – Modular buildings can be in operation for many decades, just like conventional construction
- Environmental & Social Impacts
 - Less physical work is being performed on site, which reduces construction parking, traffic, and congestion & deliveries to site.
 - Reduced pollution, dust, disruption, noise on construction site (70% of build done off-site)
 - Reduced site trash (70% of build is off-site)
 - Shorting construction duration result in less impact to environment and neighborhood

KEY DRAWBACKS

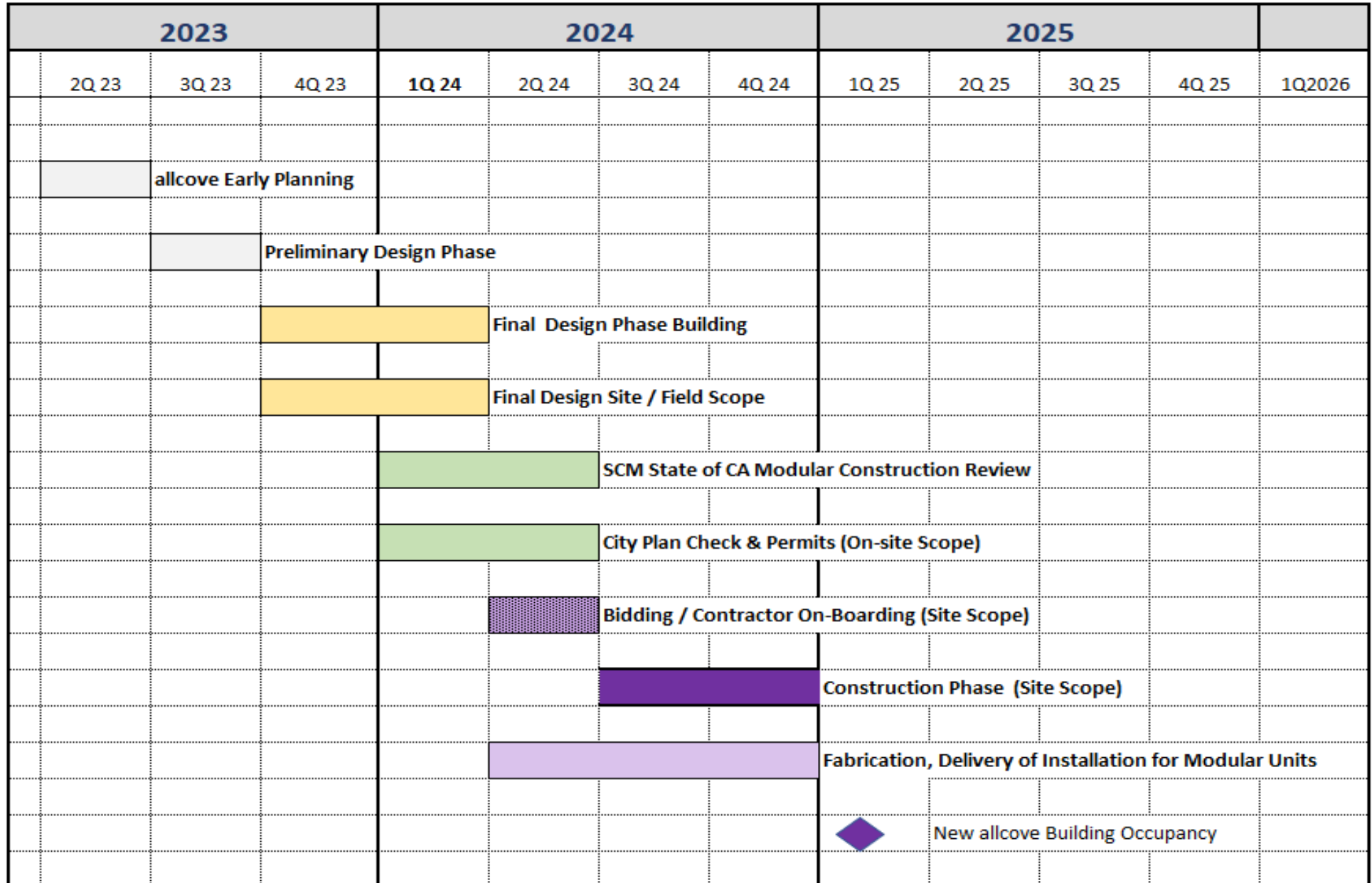
- Sitework and some building elements would still be conventional construction (public bid) – adding risk and complexity
- Limits on design customization – modular unit dimensions set by the manufacturing process, not design team
- Assessing if sustainability and health priorities are possible through modular
- Architecture – modular building may not have the same level of “curb appeal”
- BCHD will rely on the modular company to supply the entire building
- Modular buildings are historically thought of as “temporary buildings” not permanent facilities



allcove Master Schedule – Conventional Construction



allcove Master Schedule – Modular Construction



Take-Away Discussion

- Modular vs. Conventional construction
 - Advantages
 - Disadvantages
- SEED Recommendations – Sustainability Considerations
 - Solar
 - EV Charging
 - Water
 - Façade
 - HVAC
 - Decarbonization (zero carbon)
 - Net zero energy

