



Energy and CleanTech Overview 2024

— Introductions



Marcus Castain '98

Career Adviser, Parker CMC

- Teaches career management and advises MBA students
- 23 years experience in private sector, non-profits, start-ups, city government, and philanthropy including founding a green jobs program in the water sector in Los Angeles
- Enjoy riding my bike to campus



Josh Rothermel '25

ECA President

- Interning at Arbor Energy, a carbon capture & storage (CCS) start-up
- 6+ years in the EV industry with Rivian where I helped scale them from 86 employees to >15,000
- Career switching from HR to Strategy
- My car has been to Jay-Z's house, but I haven't



Jill Zhang '25

ECA EVP

- Interning at Eaton this summer as a PM working on EV charging solutions
- Background in Mechanical Engineering, 6 years in industrial automation with a focus in the automotive/EV industry in my last role
- Lived in 5 states and visited 16 countries so far!



What questions do you have
about energy/cleantech/
sustainability?

U.S. Market Overview

- Definitions
 - Renewable Energy, CleanTech/ClimateTech, Sustainability, Environmental Social and Governance (ESG)
- Market Drivers
 - Climate Crisis, Consumer Demand
 - ESG Investor Demand, Decarbonization, Corporate Sustainability
 - Paris Accord, Inflation Reduction Act (IRA), CHIPS Act, State and City legislation
 - De-globalization
- Growth and Investment
 - Climate Investment: \$23 trillion in emerging markets by 2030 (Source: [IFC](#))
 - Climate Adaptation: a \$2 trillion market (Source: [World Economic Forum](#))
 - \$70.1 B in 2022 from VCs; 40X larger than 10 years ago (Source: [HolonIQ](#))



Advantages of California

Innovation Economy

Diverse Set of Industries

Silicon Valley and Silicon Beach

Immigrant-Friendly – Connected to Rest of World

Appreciation of Diversity

Entrepreneurial

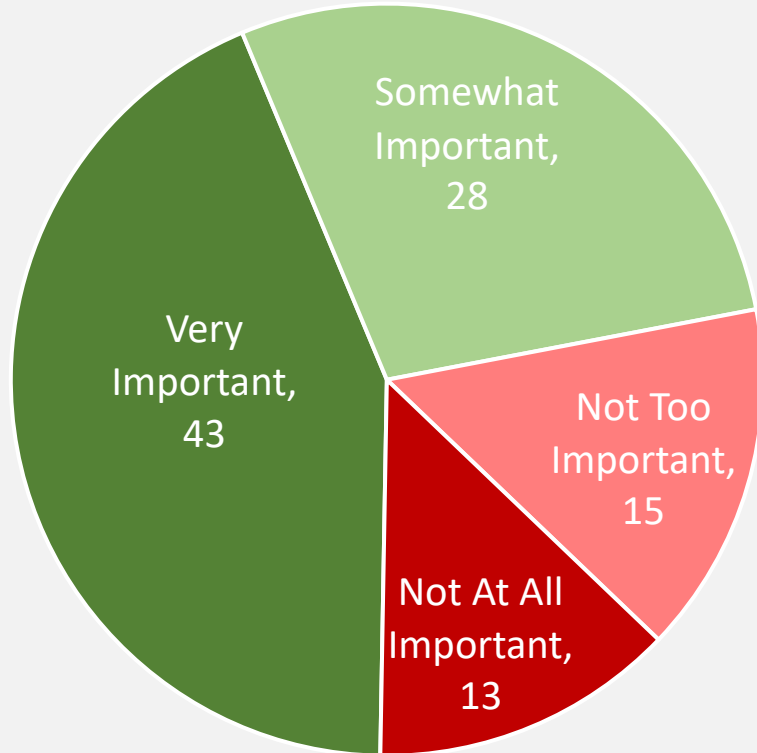
Progressive Public Policy

Concern for Environment

Strong Public Universities

~80% of Anderson alums stay on the West Coast, ~65% in California

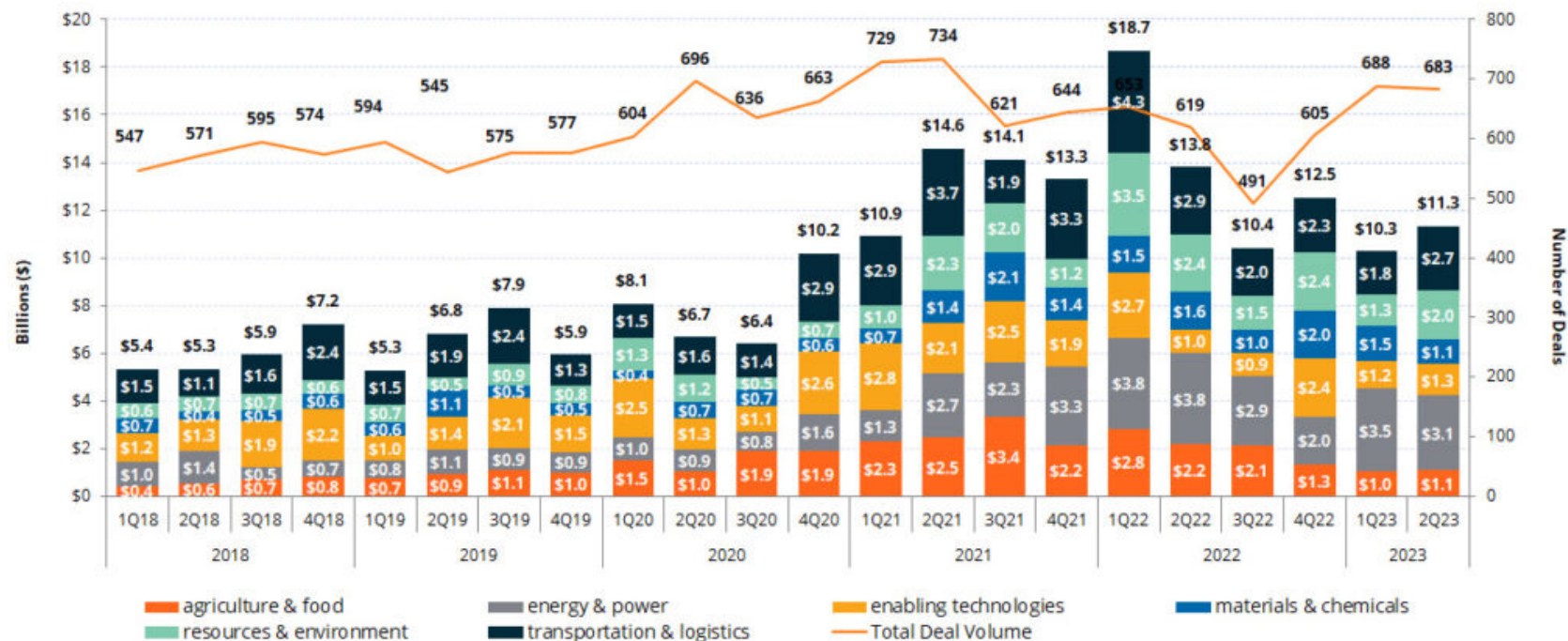
Importance of California Leadership in Climate Change



Source: PPIC 2021

California Policy Leadership

- 1978: Title 24 Building Energy Efficiency Standards
- 1990: Zero Emission Vehicle Mandate
- 2006: AB 32: Global Warming Solutions Act
- 2008: Reduce Greenhouse Gas Emissions
- 2009: Low Carbon Fuel Standard
- 2010: Sustainable Communities Strategy
- 2011: Renewable Portfolio Standard
- 2012: Mandatory Commercial Recycling
- 2013: Cap and Trade Program
- 2014: Charge Ahead California
- 2018: 100% Clean Energy by 2045
- 2022: California Climate Commitment
 - Carbon Neutrality by 2045
 - Restrict oil Drilling
 - 100% Clean Electric Grid
 - Capture and Remove Carbon Pollution
 - Nature-Based Solutions
- 2022: ARB Bans Sale of New Gas-Fueled Cars after 2035



* Excludes deals above \$350M

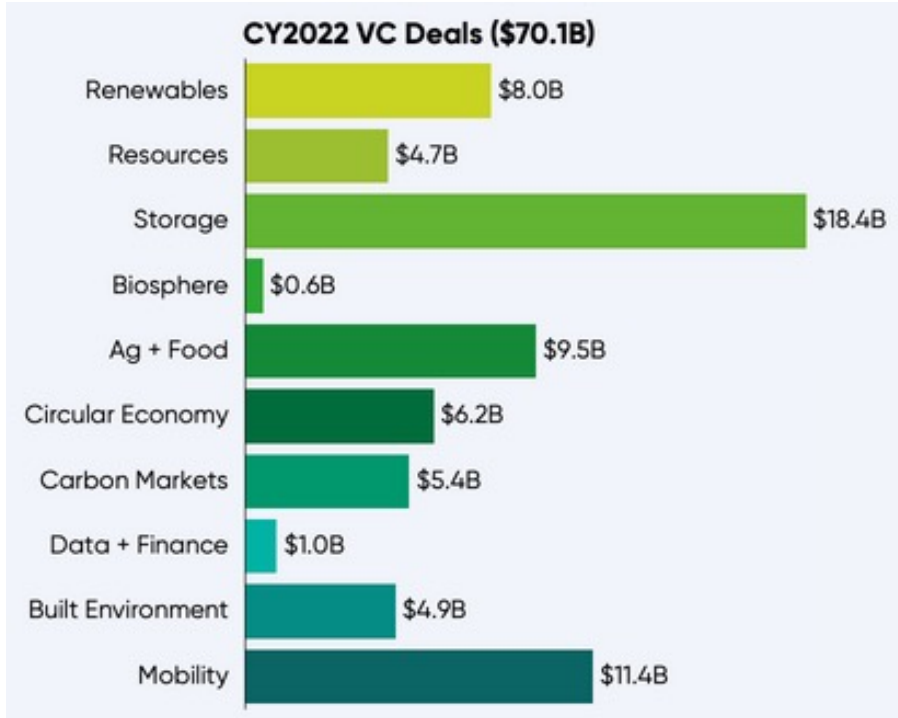
**Dollars (left) and volume (right) of global cleantech venture capital deal activity

Source:  Cleantech Group



“It is my belief that the next 1,000 unicorns — companies that have a market valuation over a billion dollars — won’t be a search engine, won’t be a media company, they’ll be businesses developing green hydrogen, green agriculture, green steel and green cement.”

Larry Fink '76
Blackrock



VC dealflow is large, diverse, and growing.

Silicon Valley now boasts more than 130 VC firms focused on Climate

UCLA Resources

UCLA

Anderson

School of Management

UCLA

Center for Impact



UCLA

Easton Technology Management Center

CROSS-CAMPUS
I N N O V A T I O N

C H A L L E N G E



ENERGY AND CLEANTECH ASSOCIATION

UCLA

Institute of the

Environment & Sustainability

Leaders in Sustainability Certificate

UCLA

School of Law

Emmett Institute on Climate Change & the Environment

UCLA

Luskin Center for Innovation

UCLA

Fielding School of Public Health

Center for Healthy Climate Solutions

UCLA

Sustainable LA Grand Challenge

UCLA

Sustainability



Institute for Carbon Management

UCLA

Samueli School of Engineering



ENERGY AND CLEANTECH
ASSOCIATION

“To make Anderson the leading institution for education, innovation, and career development in the energy, mobility, and cleantech sectors”



ECA Activities

- DOJ week
- Energy 101s
- Career fair
- Energy Innovation Conference
- Alumni D48s
- Company info sessions
- Alumni and job connections!



Management Courses

MGMT295F: Social Entrepreneurship - Business Models for Social Impact

MGMT246A: Business Sustainability and the Environment

MGMT298D: ESG (Environmental, Social and Governance) & Sustainability Reporting

MGMT298E: Energy, Climate Change and Finance

MGMT 298-23: Advanced Business Strategy: Managing the Non-Market Environment

MGMT298D: Technology and Society: A Dynamic Relationship and The Changing Role of Leaders

MGMT298E: Accounting, Finance and ESG

MGMT296: Social Impact Consulting

MGMT298: Impact Investing I and II

MGMT440: Advanced Business Strategy: Managing the Non-Market Environment



Prof Magali Delmas



Prof Ivo Welch

Alumni/Corporate Partnerships





Think in the next.