

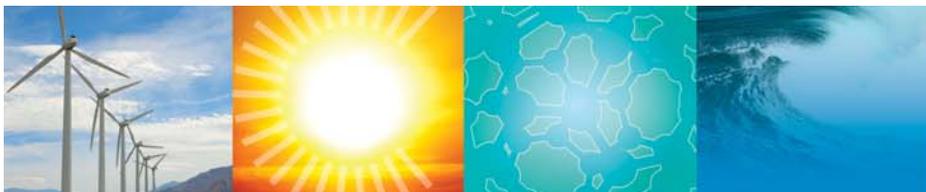


**California Energy Efficiency Strategic Plan
Research and Technology Action Plan
Stakeholder Workshop**

Planning, Process and Funding

Susan Preston, General Partner, CalCEF Clean Energy Angel Fund

July 11, 2011



Requirements for Climate Change: Other Than Financing

Long-term government policies and regulations:

- Driven by research and public opinion
- Recognition of green economy

Economic/carbon prices:

- Initially through incentives, rebates, mandates
- Total cost, including externalities

Pro-active corporate strategies:

- Voluntary carbon reduction; sustainability

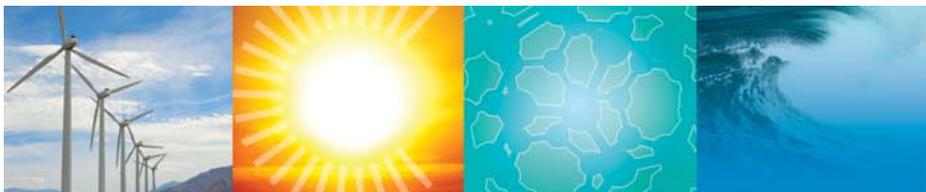
Low-carbon technologies and services:

- Grid parity pricing

Infrastructure Development:

- Urban ↑, aged grid, water crisis

Government support: precedent (not a private market sole responsibility)

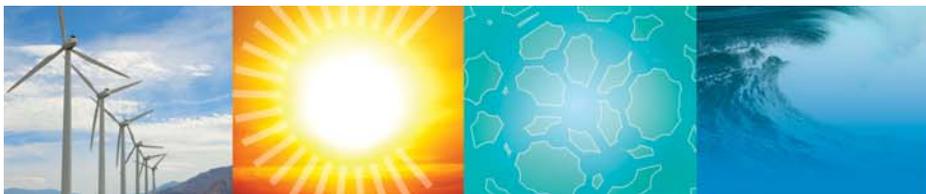


Need to Financially Support Innovation

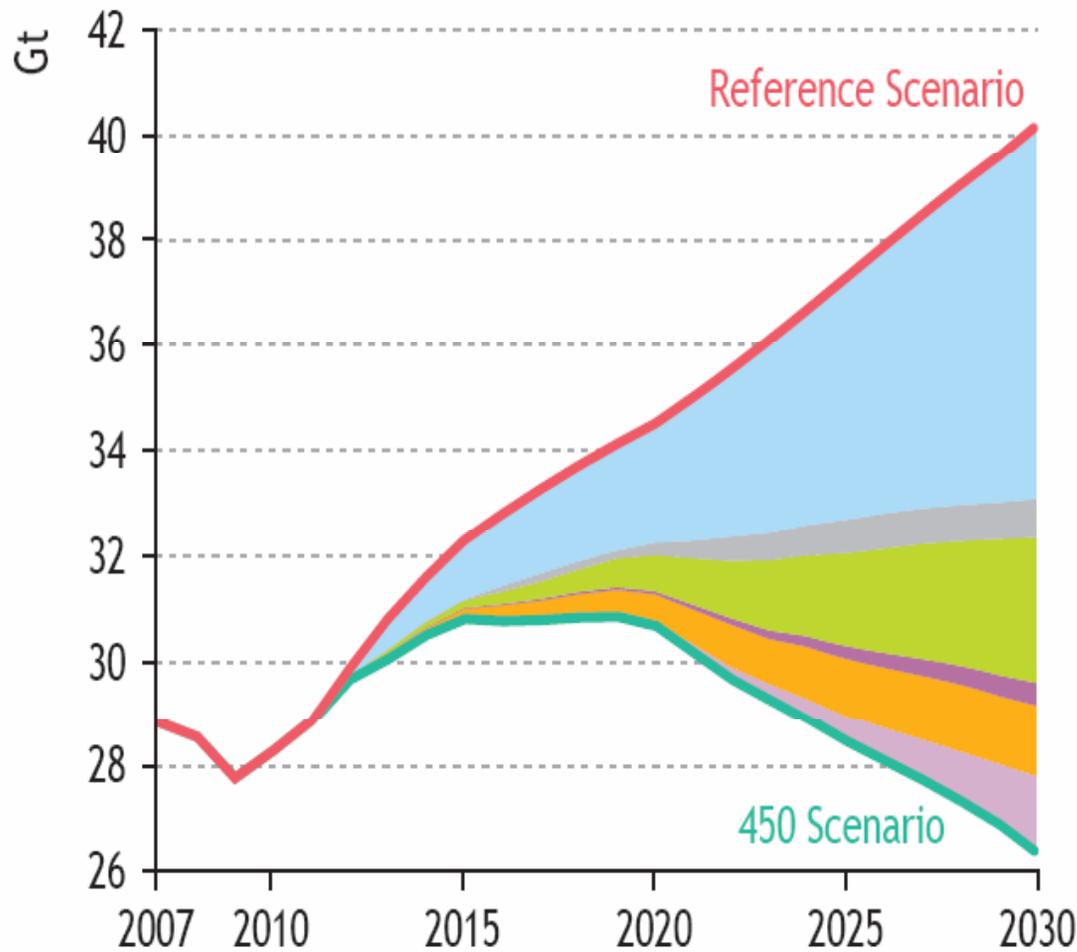
- Need to be investing \$550B per year to stabilize CO2 emissions and reduce them beyond 2020
- Represents less than 1% increase in total global private equity
- Creating jobs globally 3 M worldwide
- But even with aggressive estimations of \$350 B in private equity in clean energy in 2020:

...We fall far short

Imperative to support advancement of clean energy innovation

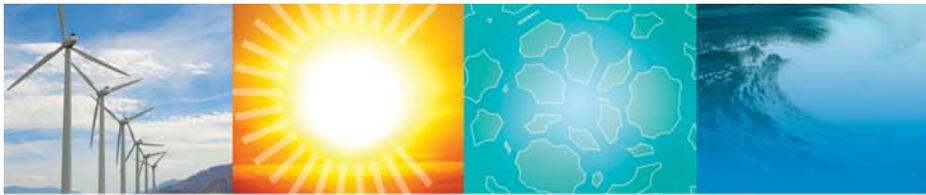


Over 50% of CO2 Abatement Will Come From End Use Energy Efficiency

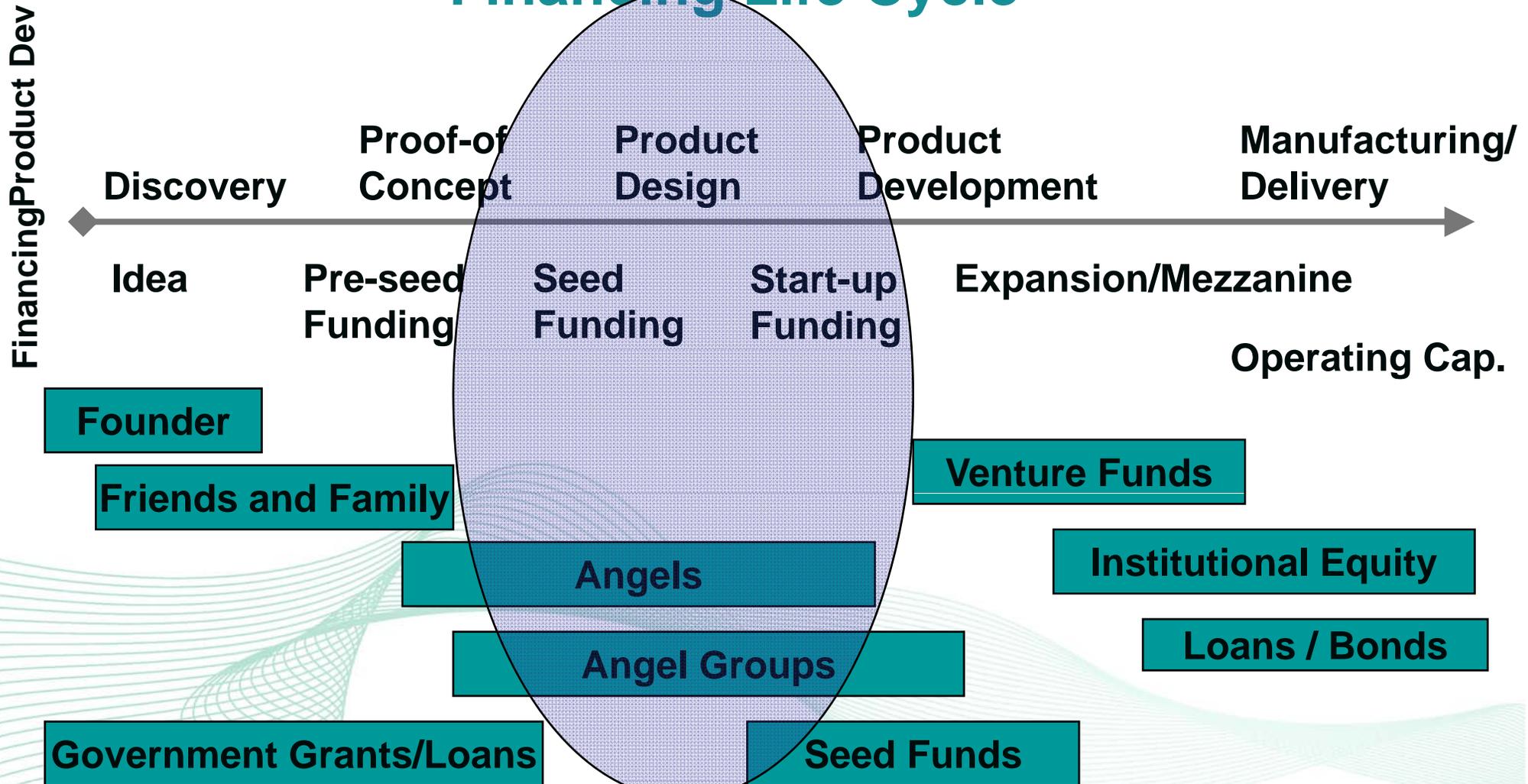


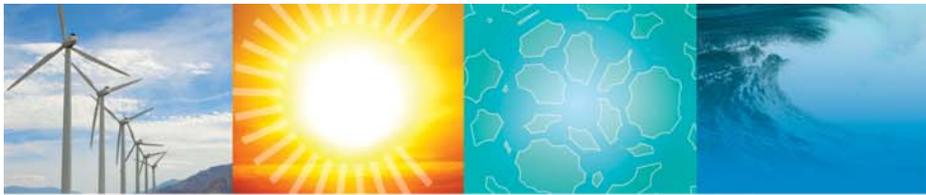
	Abatement (Mt CO ₂)		Investment (\$2008 billion)	
	2020	2030	2010- 2020	2021- 2030
Efficiency	2 517	7 880	1 999	5 586
End-use	2 284	7 145	1 933	5 551
Power plants	233	735	66	35
Renewables	680	2 741	527	2 260
Biofuels	57	429	27	378
Nuclear	493	1 380	125	491
CCS	102	1 410	56	646

Source: World Energy Outlook 2009, OECD / IEA



Financing Life Cycle





Funding Gaps = Investor Opportunities

