



Clean Tech LA

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- There are two common characteristics shared by regions that have become engines of economic development:
 - i. Abundant undeveloped land
 - ii. Proximity to one or more research universities

Silicon Valley: *Stanford, Berkeley and UCSF*

Research Triangle: *Duke, UNC and NC State*

Route 128: *Harvard and MIT*

San Diego Corridor: *UCSD*

- The Los Angeles Basin is currently in the same fortunate situation
 - i. It's home to three major research universities (Caltech, USC and UCLA) which are ready to play a catalyst role and supported by a larger regional academic enterprise (UCSB, UCI, UCR, and various Cal State and Community College campuses)
 - ii. There is a large area along the L.A. River that can be redeveloped. This has been dubbed by the CRA as the “Clean Tech Corridor”

Clean Tech Corridor



- These considerations gave birth to Clean Tech LA [www.cleantechlosangeles.org]
- Managed by a coordinating committee that meets bi-weekly.
- An MOU was recently signed between the City of Los Angeles (includes CRA and LADWP) Caltech, USC and UCLA, and the three largest business organizations in the City (LABC, LA Chamber, LAEDC) to establish a working partnership to promote Los Angeles as the global capital of clean/ green technology



Clean Tech LA MOU Signing Ceremony,
April 2009

- Initial steps taken so far to develop CTLA :
 - i. The CRA has offered to provide some initial office space and administrative support for CTLA
 - ii. Three small projects have been initiated involving DWP and the 3 universities, focused on:
 - UCLA (Wind energy)
 - USC (Energy efficiency in data centers)
 - JPL (Sensor networks for Owens Valley)
- CTLA is now ready to move to the next stage of development on two different fronts:
research & industry partnerships

- On the research side, each of the three research universities has been recently awarded an Energy Frontier Research Center (EFRC) by the DOE, funded each at \$2-5M/year for 5-years:
 - Center for Molecular Assembled Materials for Solar Energy production and Storage
PI: *V. Ozolins (UCLA)*
 - Center for Light Material Interactions in Energy Conversion
PI: *H. Atwater (Caltech)*
 - Center for Emerging Materials for Solar Energy Conversion
PI: *P. Dapkus (USC)*

- In addition, there are plans underway for the three research universities to partner on an “Energy Innovation Hub” proposal, which was recently announced by the DOE
- These hubs are expected to be funded at the level of \$25M/year for 5 years, starting in FY’10
- The plan is for the CTLA hub to focus on solar energy, as this is an area of strength for all three universities, and solar power is clearly of considerable interest to the Los Angeles basin

- In parallel, CTLA plans to develop a corporate component, which will include a mixture of small and large companies, as well as start-ups and VCs active in the clean tech sector.
- Suggestions on how best to do this effectively are very welcome. Also, it would be valuable to get input on what organizational/institutional features would be useful to develop within the context of this initiative