



# California Conservation Corps

## - Energy Corps Program -

- Version 8.2 -



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# The CCC & Energy Conservation - Background & Context -



- **California State Agency**: Established in 1976 by Governor Jerry Brown
- **26 Operational Centers Statewide**: 7 Residential and 19 Non Residential facilities
- **Workforce Development**: Providing exemplary job training, work experience, and employment opportunities for 10s of thousands Californians between the ages of 18 and 25 (and returning Veterans through age 29) throughout s
- **CCC Design Model**: Combination of Marine Corps, Israeli Kibbutz, and Jesuit Seminary.
- **CCC Moto**: “Hard work, low wages, miserable conditions ... and more!”
- **Long History of Energy Programs and Projects**: including EE and RE projects and programs in partnership with companies of all types, Utilities, State and Federal agencies, City and other Local governments.
- **Continuum of Education**: Classroom training provided by University and Energy Industry expert partners, extensive hands-on professionally supervised work experience, and the CCC has a substantial and well established statewide infrastructure and support network of CCC resources suitable for energy efficiency and renewable energy projects and programs.
- **EE \ RE Program & Project Design**: The CCC provides energy efficiency and renewable energy project and program design and implementation consultative services.
- **CCC & Local Corps**: The CCC and the 14 local California Corps (certified annually by the CCC) can provide capable, well trained and managed, cost effective, and ‘high availability’ energy efficiency and renewable energy project and program resources throughout California.



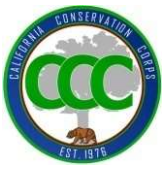
# Energy Corps Program

## - CCC Energy Corps -



The CCC and its Corpsmembers have more than 30 years of successful engagement in Energy Efficiency (EE) and Renewable Energy (RE) projects and programs. In 2013 the CCC established a new “Energy Corps Program” that provides:

- **Energy Industry Training & Work Experience** - Corpsmembers and Staff are professionally trained to be highly efficient and cost effective workforce development program resources for a variety of energy efficiency and renewable energy projects and programs throughout California.
- **Innovative Program Designs** - For Energy Efficiency and Renewable Energy Workforce Development Programs and Projects.
- **Expert Energy Data Analysis** - Expert energy industry analysis of the data and preparation of Survey reports is performed by Energy Corps Program Partner - **UC Davis Energy Efficiency Center** (‘UCD EEC’). 
- **Energy Industry Project & Program Services** - Provided to Energy Industry Companies, Utilities, State and Local Government Agencies located throughout the state.
- **Coordinated Energy Industry Partnerships** - Training & work experience opportunities developed between Sponsors/Clients, local Conservation Corps, and the CCC for energy projects and programs.



# Energy Corps Program

## - Resources and Infrastructure -



With 26 CCC operating centers and 14 Local Conservation Corps located throughout California, the CCC and participating certified local Conservation Corps can provide extensive professionally trained and managed Corpsmembers, infrastructure, and a range of services for Energy Efficiency & Renewable Energy Projects & Programs.

### CCC & Local Corps






# Energy Corps Program

## - Goals & Funding -



### The Energy Corps Program is designed to meet the following goals:

- **Create Job Opportunities – Energy Industry Training and Work Experience**
  - For energy industry and other workforce entrants; including young adults, recently returned veterans, and others.
  - Develop ‘next generation’ of energy industry workers through a tiered program of training, on-the-job education, and extensive energy industry work experience.
- **Save Energy and Reduce Operating Costs** 
  - Conduct ASHRAE compliant ‘no cost’ and ‘low cost’ Energy Opportunity Surveys that collect and provide all energy efficiency information necessary to identify, calculate, maximize, and ‘capture’ the available energy savings benefits.
  - Perform ‘low cost’ Energy Efficiency ‘Retrofit’ installations that will generate substantial and sustainable energy savings.

### Energy Corps Program Funding Sources:

- **Contracts** with ESCOs, Energy Engineering Companies, Utilities, Energy Contractors, and 3<sup>rd</sup> Party EE Program Providers.
- **Directly Funded State, Federal, and Local Programs**  
(Example: the California Proposition 39 “Clean Energy Jobs Creation Fund” )



# Energy Corps Program

- CEC/ARRA Funded "Energy Smart Jobs" Program -



## 2011 to 2012: Statewide 'Pilot' Program Leading to Current Energy Corps Program Model

### CEC/CCC ESJ Program Results:

- 260 Jobs Created
- 8,800 Small Retail Stores Visited
- 6,200 EE Surveys Completed
- 5,100 Stores Retrofitted
- 21,000 Retrofit Direct Installs
- 1,800 'Post Install' Checks
- 62 + Million kWh (annual)
- \$5.2 + Saved (annual)
- 97 % Customer Satisfaction Rate



The ESJ Program was a very successful CEC Energy Program. It worked with all IOU and POU Utilities and related EE Programs Statewide, and was delivered to "Hard to Reach" Store Owners and Operators in multiple languages by Corpsmembers – who were often from the same communities.



# Energy Corps Program

## - Current Energy Program & Project Service Offerings -

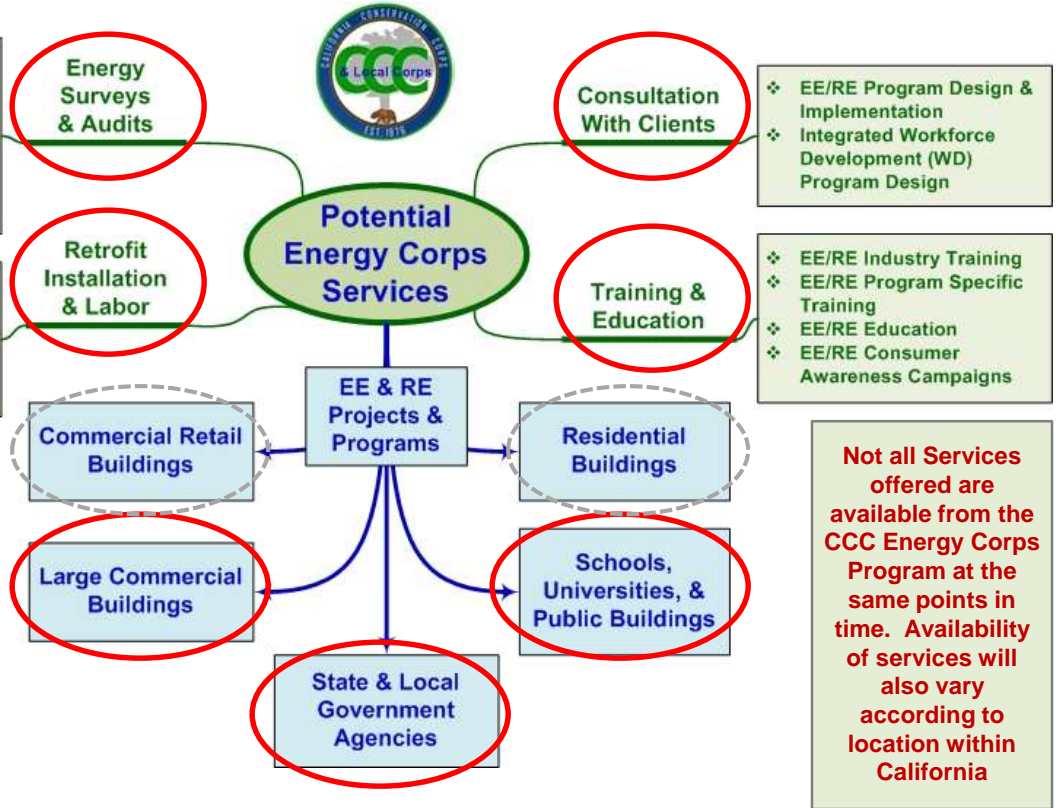


26 CCC & 14 Local Corps Locations



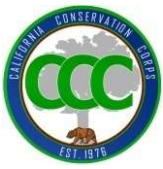
- ❖ EE/RE "whole Building" Energy Opportunity Surveys
- ❖ Lighting
- ❖ Control Systems
- ❖ HVAC Systems
- ❖ Building Envelope
- ❖ Fenestration
- ❖ Plug Loads

- ❖ Retrofits
- ❖ Direct Installs
- ❖ Post Install Checks
- ❖ Labor for ESCOs & Contractors
- ❖ Weatherization Installation



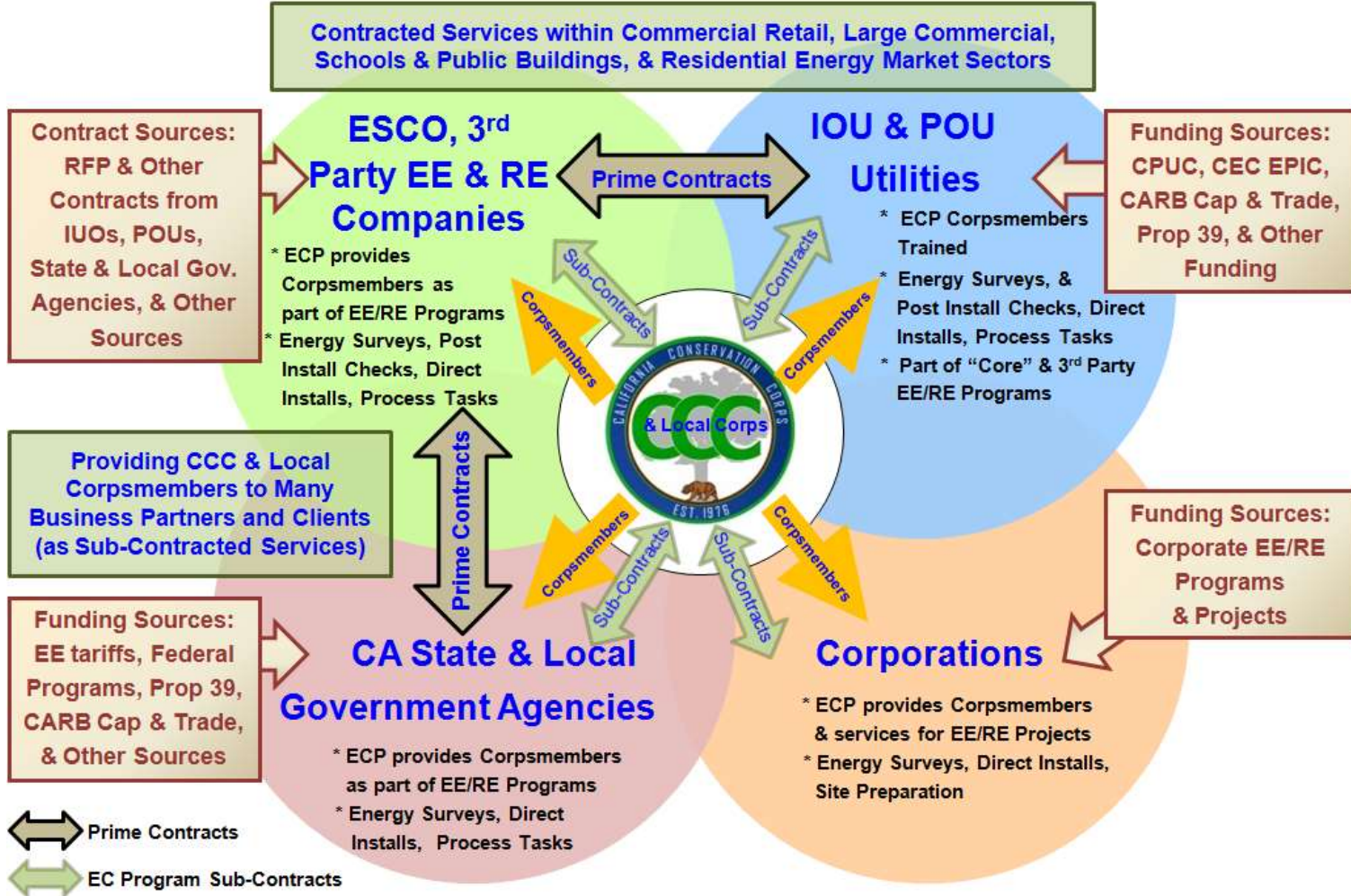
○ Current Energy Corps Services    ○ Planned Energy Corps Services

**There are currently 8 CCC Energy Opportunity Survey Crews & 2 Energy Efficiency Retrofit Crews Operating from CCC Centers Located Statewide**



# Energy Corps Program

## - Client Opportunities Model -







# Energy Corps Program

- Proposition 39 Funded Services For LEAs -



**Prop 39 Funding  
Direct Allocation  
to CCC**



**CCC & Participating  
Local Corps  
Providing  
'No Cost' & 'Low  
Cost' EE & RE  
Services  
Statewide For LEAs**

Corpsmembers



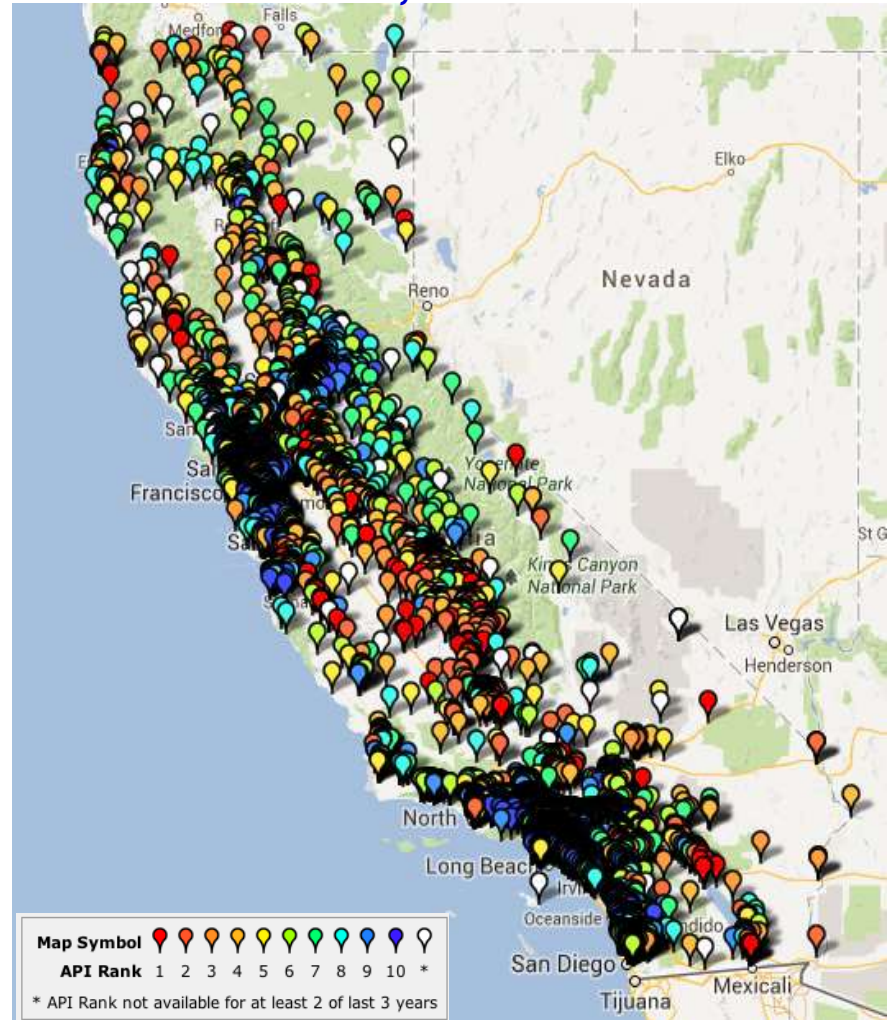
**Prop 39 Funding  
Distribution From  
CDE to LEAs**



**LEAs**

- \* 'No Cost' Energy Opportunity Surveys
- \* 'Low Cost' Energy Opportunity Surveys
- \* 'Low Cost' EE Retrofit Projects
- \* 'No Cost' EE Presentations

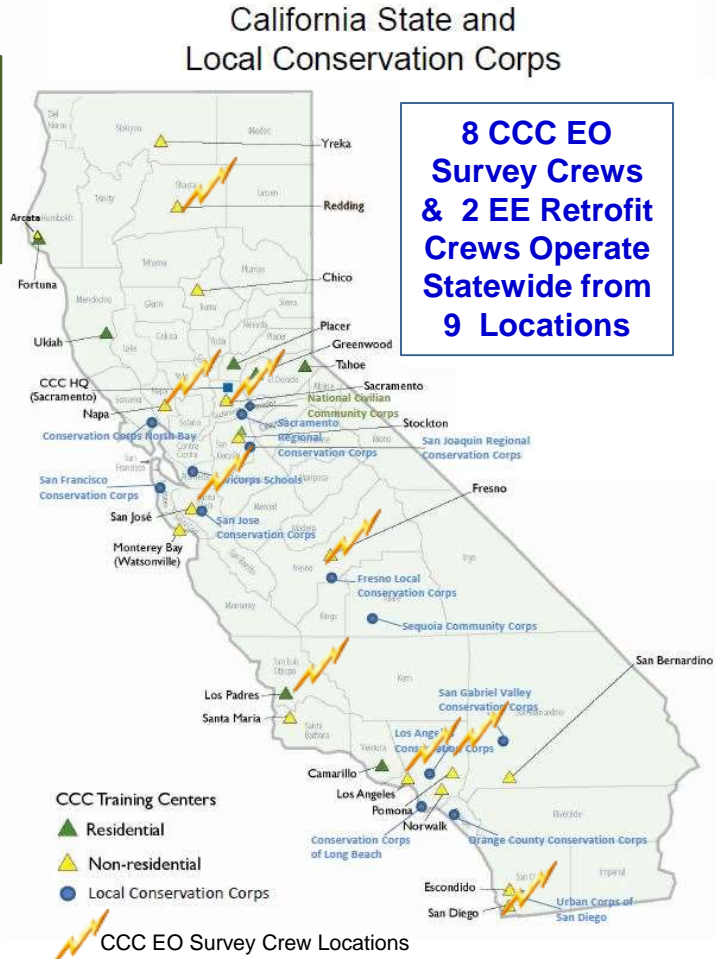
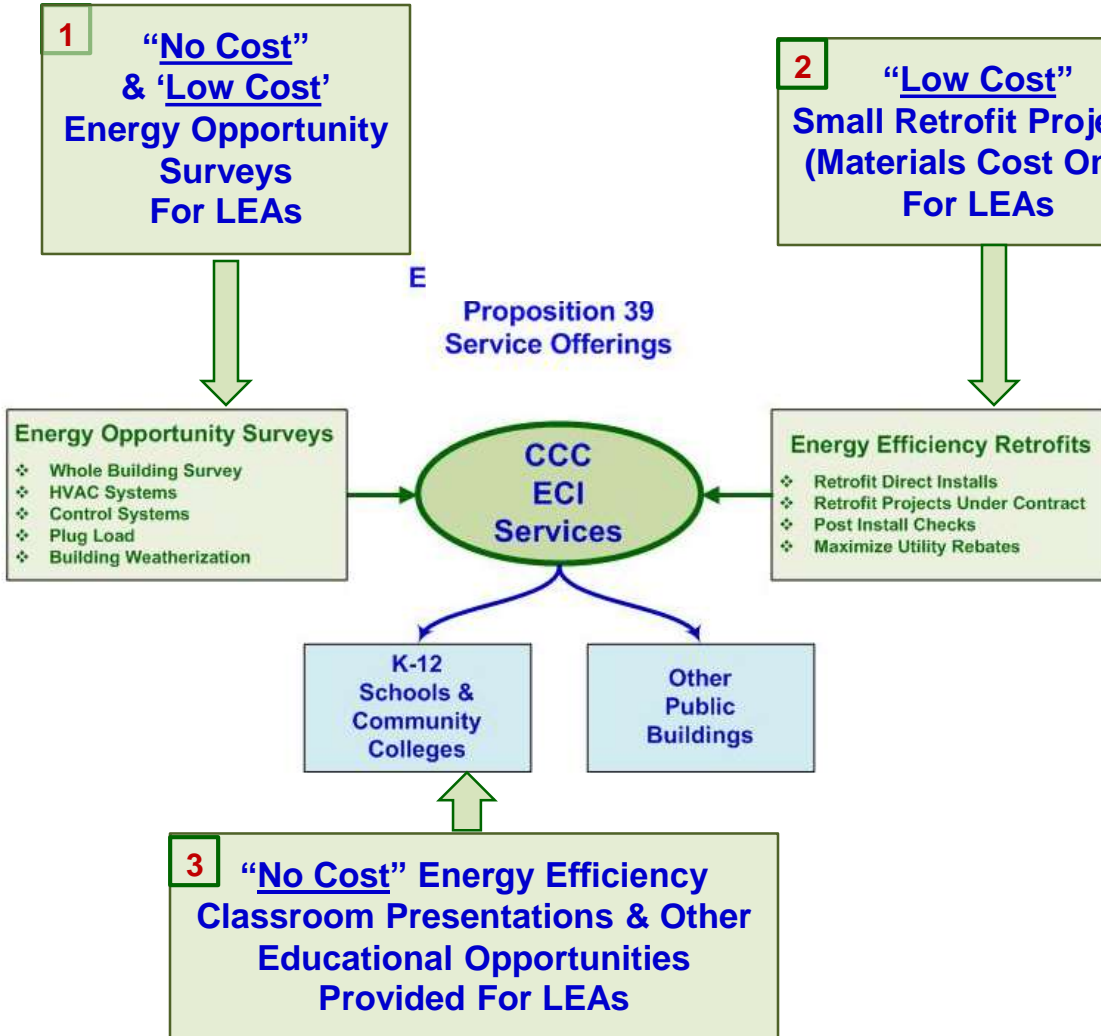
## Distribution of 1,979 California LEAs





# Energy Corps Program

- Proposition 39 Funded Services: For LEAs -





# Energy Corps Program

## - Proposition 39 Funded Program Updates -



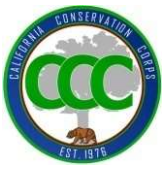
### Status: Energy Corps Proposition 39 Services:

In **January of 2014**, the CCC's 'Energy Corps' deployed **10** Crews of trained and supervised Corpsmembers to provide ASHRAE compliant 'Whole Building' Energy Opportunity Surveys for Local Educational Authorities (LEAs) throughout California.

To date, the CCC has trained **314** Corpsmembers and completed the on-site Survey process (physical building inspections, inventories of all energy uses, O&M interviews, etc.) for more than **9,500** School buildings, consisting of more than **55,000,000** square feet, located at more than **1000** School Campus sites, for **207** LEAs ... statewide (out of **377** LEA applicants to date).

To date, there have been more than **500** Energy Opportunity Survey Reports completed by the **UC Davis Energy Efficiency Center**, contracted resources, & other Energy Corps Partners for LEAs throughout the State.





# Energy Corps Program

- Nationwide Opportunities for Conservation Corps -



National & Multi-State EE/RE Contracts



'Fulfillment' by Multiple Corps

## National Contracts:

Energy Corps Programs can be established for nationwide or multi-state reimbursement based Contracts with Federal Agencies, 3<sup>rd</sup> Party Energy Efficiency ("EE") and Renewable Energy ("RE") companies, Investor Owned Utilities, and Corporations.



## Local Fulfillment:

National or Multi-State contracts can be fulfilled (performed) by a collaboration of 'Local Corps' that are located in multiple states. Participating Local Corps would be trained to the same Project or Program Specific Standards & Requirements in all locations.

National & Multi-State EE/RE Contracts can Originate from any Corps and be Fulfilled by combinations of participating EE trained Corps



# CCC Energy Corps Program

- Energy Opportunity Surveys -



**Links to the New  
CCC Energy Corps  
Videos ...**

**‘Click’ on any of the following Links:**

**[“The CCC Energy Corps”](#)**

**[“Energy Industry Market Transformation”](#)**

**[“CCC Energy Retrofit Services”](#)**





# CCC Energy Corps Program

- *Energy Opportunity Surveys* -



**More Information  
about the CCC  
Energy Opportunity  
Surveys ...**

**‘Click’ on the following Link:  
[“CCC Energy Opportunity Surveys”](#)**

