New! Energy Education
Center for Tri-City Students

Development Plan

The EEC will be built entirely by

students enrolled in Mission

Valley ROP's Construction Tech-

nology program. Students will

gain knowledge and hands-on

experience with the latest renewable energy technologies includ-

ing Solar PV and Thermal, Wind

Power generation and Energy

Efficient Construction materials

generating 3,000 to 3,500 watts

in early 2010. Installation con-

figurations will include grid tie-in

with and without battery backup.

Phase 2: Wind Turbine System

and strategies.

Students will

struction of a 20-25 panel

begin

Solar

Phase 1: Solar Farm

con-

Farm

Design and installa-

tion of a Wind Tur-

bine System, acting

Volume 1, Issue 1

Dec 15, 2009

New Energy Education Center

"Built by Students for Students"



Pacific Gas & Electric Grant Enables Construction of New Energy Education Center (EEC) for Tri-City Students

ission Valley ROP's Energy Education Center (EEC) is a planned training center for area students to learn about renewable energy and energy efficiency. The EEC is made possible by a grant from Pacific Gas & Electric, through their Solar Schools Program.

The EEC is a collaboration between industry, education and government, and is located at Mission Valley ROP in Fremont, CA. Construction of the Solar Farm begins in January 2010.

MVROP is seeking additional industry partners to turn this vision into reality.

We need industry participation to complete the EEC, which will be built entirely by students from Fremont, Newark and Union City.

ome for the EEC is MVROP's Construction Technology program under the leadership of Mr. Stan Hearne. A licensed contractor, experienced in

solar installations, Mr. Hearne has been teaching construction for over 25 years. MVROP students have built many functioning buildings, including their own Construction Tech classroom and workshop.



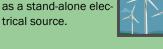
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Mr. Hearne teaches a comprehensive program that includes electrical, carpentry, plumbing, and solar installation. His students are qualified for entry level employment in several different areas of construction, and many go directly into employment after graduation.

Students will be trained in performing Energy Audits of existing buildings. Students will then be qualified to conduct energy audits at their home schools, and their family's residences, and make recommendations for improving energy conservation.

Phase 3:Energy Education Center

A LEED Certified energy selfsufficient house, providing electricity needs, hot water, heating and cooling. Constructed entirely of recycled building materials and featuring energy efficient appliances, hands-on demonstrations of energy conservation, energy efficiency, and renewable materials, the EEC will be an attractive field trip site for area schools and staffed entirely by students acting as hosts.



Development Plan (con't)



Constructed entirely of recycled building materials and featuring energy efficient appliances, hands-on demonstrations of energy conservation, energy efficiency, and renewable materials, the EEC will be an attractive field trip site for area schools and staffed entirely by students acting as hosts.

Multi-Year Media Campaign

MVROP is planning periodic media events and announcements surrounding the EEC, resulting in positive attention for corporate sponsors and partners.

Completed EEC (2012)

What you can do

How To Participate

EEC Development Phases







Phase 1: Solar Farm

Phase 2: Wind Farm

Phase 3: Energy Efficient House

MVROP Prepares Students for Employment

- Solar Energy System Installer
- Solar and PV Installation: Roofer
- Residential Solar Sales Assistant
- Wind Field Technician
- Wind Field Service Technician
- Jr Renewable Energy Technician
- Insulation Installer
- **Energy Auditor**
- Carpenter
- Electrician
- Plumber
- **Drywall Installer**
- **Drywall Taper & Texturer**

- Painter
- Acoustical Tile Installer
- Flooring Installer
- Masonry, Concrete Installer
- Interior & Exterior Finish Carpentry

And for Further Education:

- Apprenticeship Training Programs
- Solar Installation Certificate Pgms
- A.S. Construction Management
- B.S. Construction Management

Contributing Partners



Pacific Gas and Electric Company™ Pres Solar Schools Program

- •Unitek College, Boots on the Roof Program
- •Syed Ali, CEM, CSDP, BEP, Energy Management Consultant



"The Energy Education Center will enable students to fulfill their ambition to participate in the Green Economy."

> - Charles Brown Superintendent



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