

CEC Meeting Notes - Rand Hunt  
12/3/08

### **Introductions**

#### **Letter to President in regards to offsetting air travel**

The college is dedicated to be carbon neutral by 2020.

\$25,000 to offset - Where will this money go?

Maybe we could invest this into ourselves... Clean energy, electrical vehicles, solar panels, ...?

#### **Students needed for CEC**

2 immediately and one student in the spring to train for coordinator - stipend 75 twice a quarter

(Preferably someone who will be available longer than one year) Sophomores and juniors are encouraged to apply

GSU Needs to get application live on the net ASAP: CEC would like cover letter and resume

#### **Budget/administrative Update**

Current budget is 96 thousand as of June (minus costs since June)

CEC wants to involve Olympia students in Tacoma projects

Facebook page for CEC now open - Check it out if you're interested.

<http://www.facebook.com/group.php?gid=35886379741>

#### **Presentation on bio-diesel project on school**

Alternative Energy Proposal

They have large tank and pump: current capacity = 3 batches - 75 gallons a week.

They need a new facility to make the project legitimate

*Currently-* Wood rot, spilled oil does not evaporate, mice drown in oil, and water collects in oil

#### *Proposed*

Lab would produce its own power by gasification and efficiently treat its own sewage through algae,

producing bio fuel to be used by the college, and serve as a center for research and education of sustainability

#### *Highlights:*

-Closed loop system

-The building will be 100% sustainable

-Producing more than enough energy for its own needs, and producing clean water

-Lab will initially focus on biodiesel production

-Already in production at evergreen, but can't continue in current facility.

-Butanol production

### *Benefits*

Hands on experience instead of theoretical

Green jobs coming

Class space - Research space

### *Phase 1 - spring 2009*

Purchase gasifier, generator, setup greenhouse (already donated by farm), move biodiesel to greenhouse, lay footing for greenhouse radiant heat pipelines, erect Greenhouse, install gasifier and components, move biodiesel into greenhouse.

### *Phase 2 winter 2010*

Begin algae test, lay foundation for lab building, and erect roof and skeletal frame, infill straw bales, plumbing/HVAC, finish interior and exterior

### *Phase 3 spring 2010*

Bring building into operation, stock lab with equipment purchase, algae cultivation, oil press, butanol still, fume hoods, freezer, furnish conference room and office

### *Phase 4 fall 2010*

Research design and build algal wastewater treatment facility, begin algae cultivation from water treatment (cutting edge, 4 places doing it)

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