


The Greener College of the Desert

Research and presentation on methods
promoting sustainability on campus.

By Todor Nikolov

The five directions

- Grid dependency
- Water usage
- Transportation
- Waste and resources usage
- Education



“I'd put my money on the sun and solar energy. What a source of power! I hope we don't have to wait until oil and coal run out before we tackle that.”

-- Thomas Edison



Photovoltaics (a.k.a. Solar Panels)

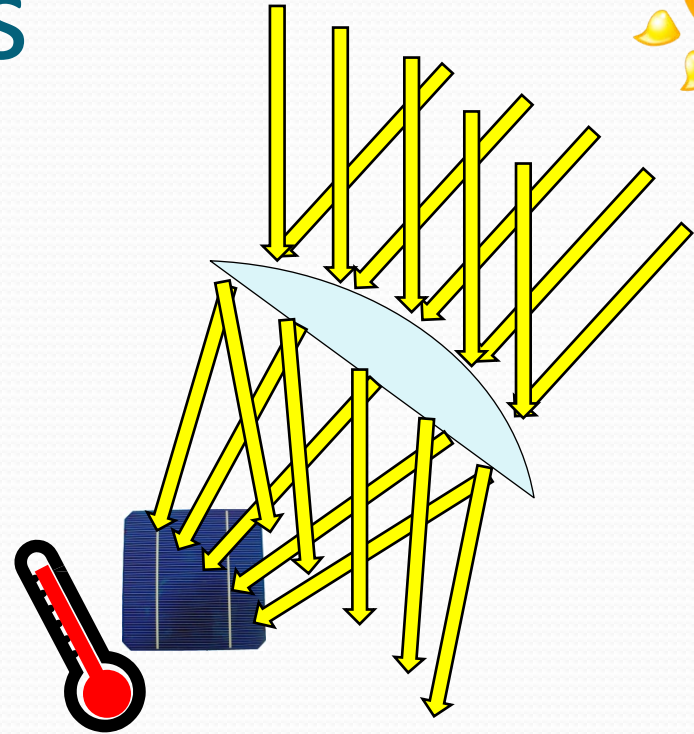
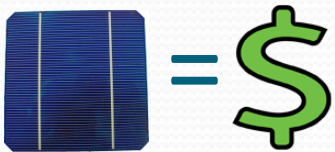
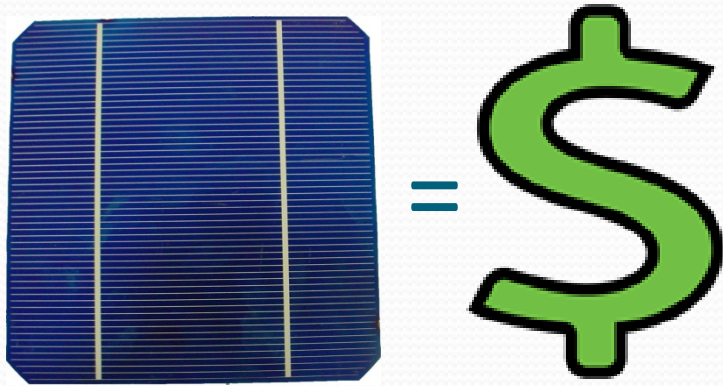


Stationary



Heliotropic

Introducing: CPVs

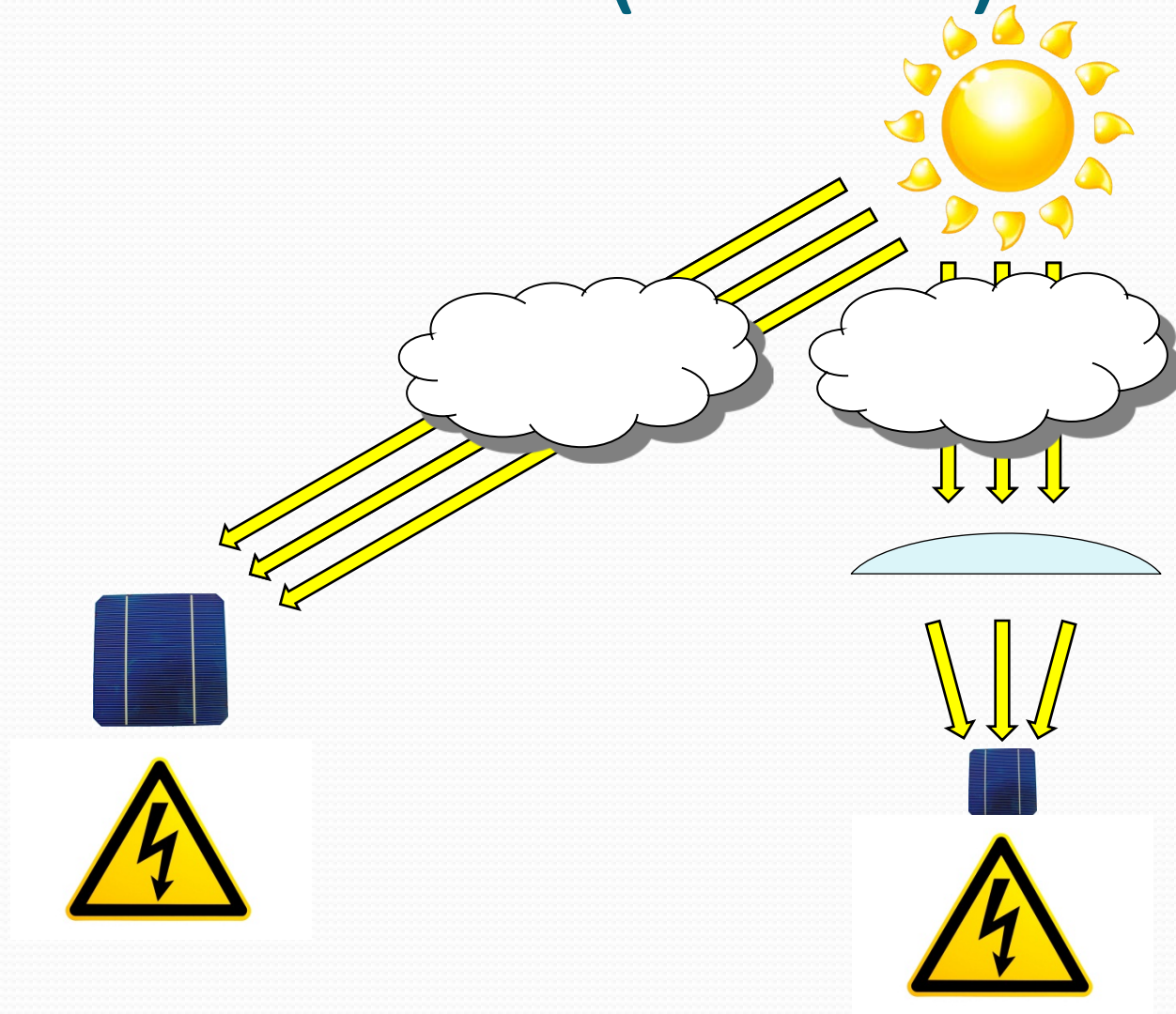


November, 21st, 2011, 3:00pm



Photo credit: me

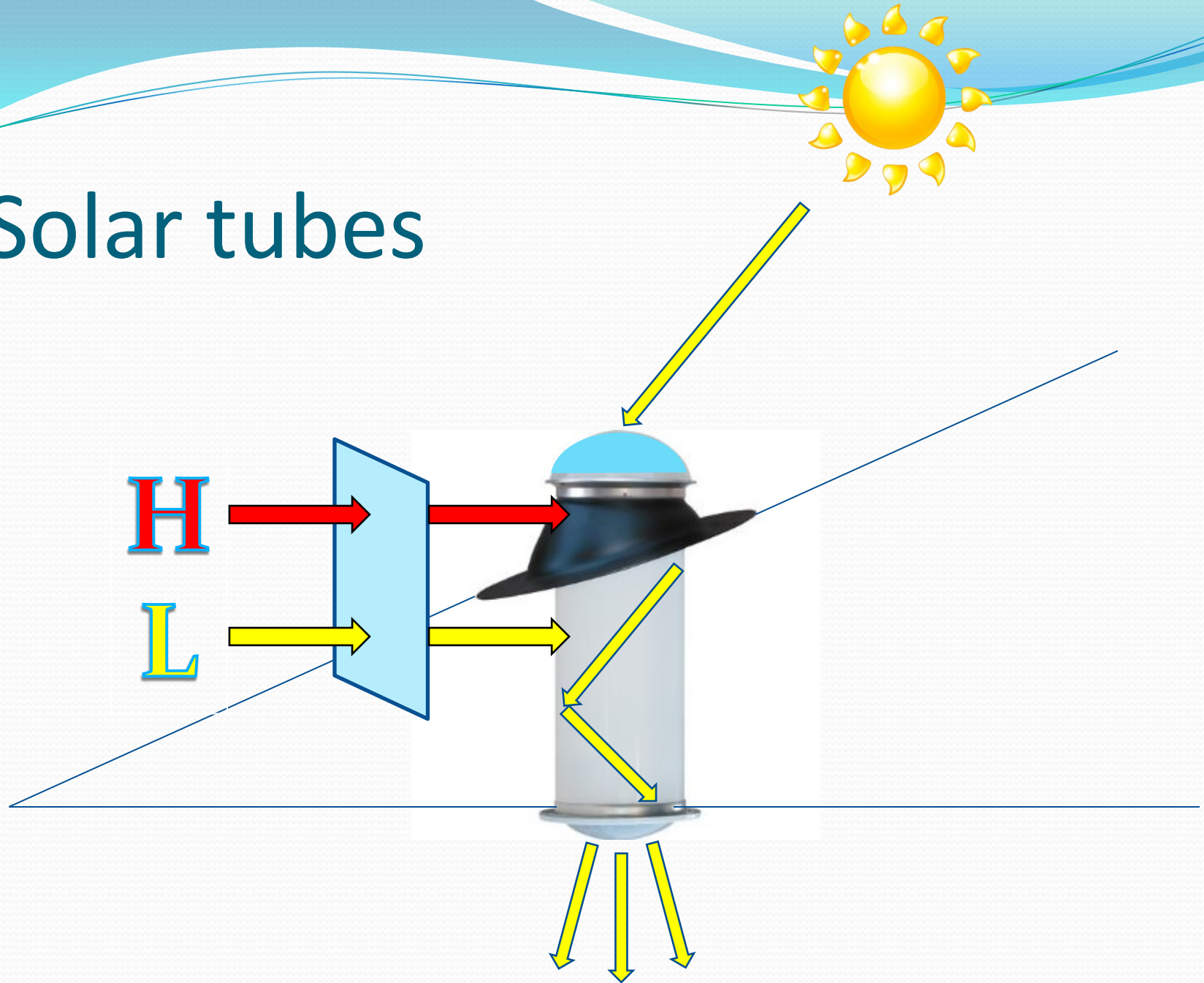
Light diffusion (clouds)



Comparison

	Pros	Cons
Stationary	Set & Forget	More expensive
CPv	Cheaper	More sophisticated Higher maintenance Malfunction easily Running hot

Solar tubes



Water usage



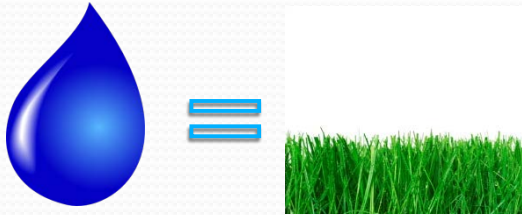
Picture credit: waterless.com

My neighbors' front yard



Photo credit: Google (Street View)

Grass vs. a desert tree

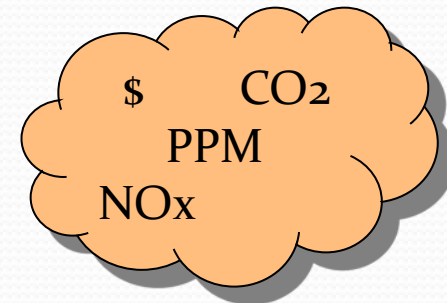
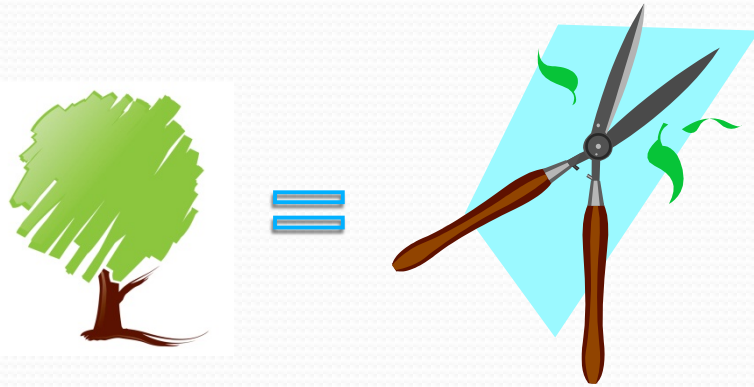




Desert Willow
Chilopsis linearis



Grass vs. a desert tree



Grass vs. a desert tree



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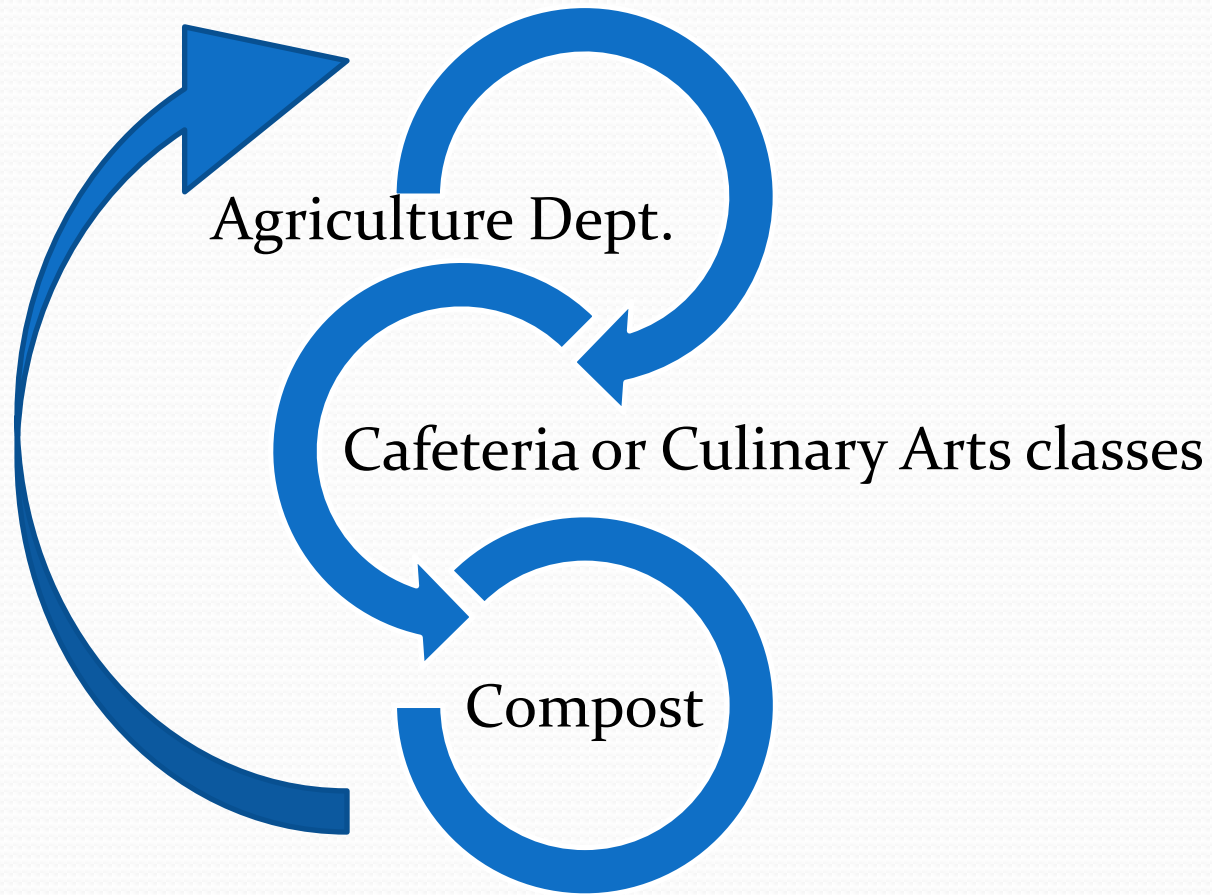


Waterless urinal



1 gallon per flush;
100 flushes per day;
36,000 gallons per
urinal annually.

Closing the loop



Transportation



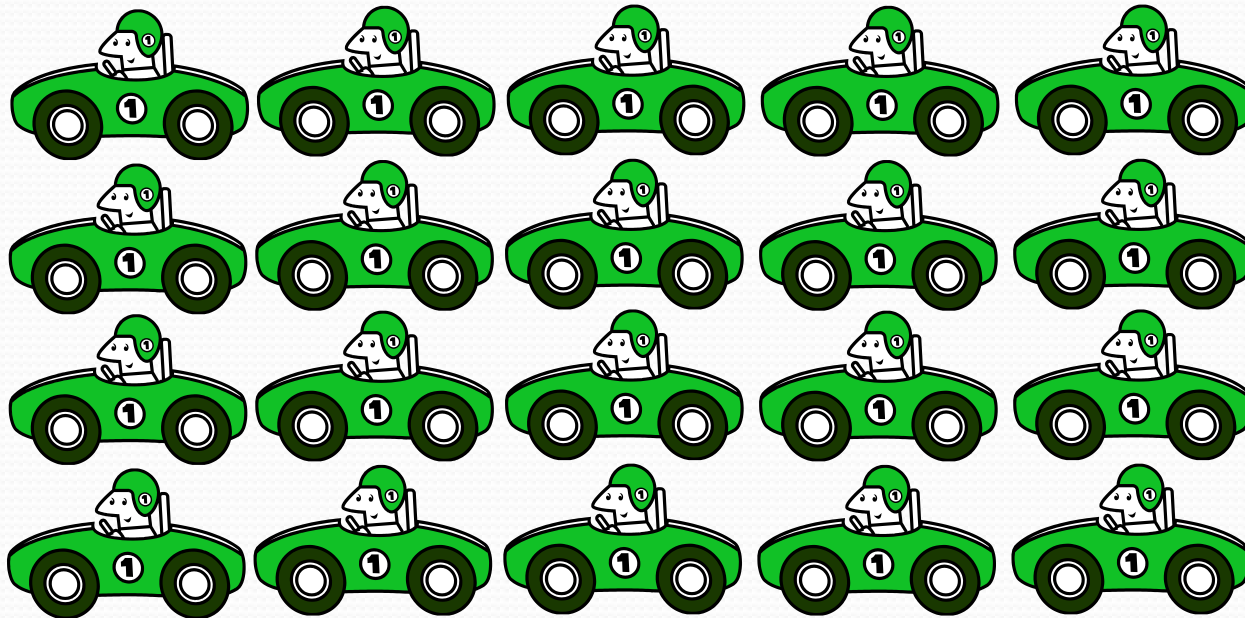
A Relatively Comprehensive
Guide to Apartment Rentals
(for non-local potential students)

- Proximity to the campus
- Proximity to a grocery store
- Bus routes/time required to get to campus
- Facilities (e.g. pools, tennis courts)

Comparison in Transportation



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Bus vs. Car

- Car
 - Convenience
- Bus
 - Cheaper
 - Environmentally Cleaner
 - No maintenance
 - Useful time
 - Parking

On-campus green practices

- Packaged foods; plastic bottles
- Reusable bottles; improved water fountains
- Washable food trays
- Surcharge/discount for drinks if vessel is reusable
- Google Calendar/iCal/MS Outlook-compatible syllabi
- Black Board, Math Lab, homework via e-mail
- Double-sided, when printing is required

Conclusion

Not only environmental opportunities.

Solar panels, solar tubes, xeriscaping, waterless urinals, local and internal sourcing for the cafeteria, and reducing paper usage = \$ = ?

Conservation of Natural Resources Mandated Curriculum

Let's do ourselves a favor.



Fin.