

# Energy Task Force

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*Morse 301 December 5th, 9-10:30 a.m.*

## Participants

Paul Chamberlain, Megan Barry, Jim Dombroske, El Farrell, Jackie Furlone, Tat Fu, Filson Glans, Fiona Gettinger, Tom Kelly, Matt O'Keefe, Steve Pesci, Lisa Pollard, Beth Potier, Sarah Smith, Cameron Wake, Andrew Wells, Michael Welch,

## Meeting Agenda

Welcome and Introductions

Agenda Items for joint ETF/TPC meeting Jan 22<sup>nd</sup>: All

Updates on EEF Projects: Matt

WildCAP update: Matt

Talking points for President Huddleston on climate change: All

Wrap-up/next steps

    Updates from students: Jackie and Students

    Next Semester meeting Schedule: does this day/time still work?

Alex Alterisio-Gagnon [acq69@wildcats.unh.edu](mailto:acq69@wildcats.unh.edu) can do the energy task force

## Discussion

### TPC

- Where is overlap? What's important?
- Primary focus of TPC has been on the users and community members that use transportation
- Goal to mesh committees, maybe cross-pollinate members
- Joint meeting to discuss EEF, how to come up with similar model for transit
- TPC: great success, chronic issue is financial model of funding transportation system based on parking system that is not market base
  - Succeeded because of strong support of students and transportation fee
- Parking fee system not sustainable

- Have been focused on university fleet, fuel consumption, trying to move towards a clean fleet, growth of CNG
  - have great data sets and should be able to give nice graphics during meeting, how these relate to emissions.
- Acute issue: clean fleet advisor
  - institutional challenges of getting that person on campus to work on campus
- Want to make sure it's not only Steve or Matt talking at meeting, pull Dirk to discuss successes
  - Rest should be quality discussion about how to get beyond acute known challenges.
- ETF has momentum with direct savings because of actions on campus
  - Transportation financial model is punished in a way for success and could almost go out of business under current model
  - Loss of parking permit sale, increase in costs, more riders = more cost of transit
  - WildCAP/GHG is one way to integrate both of them, all emissions the same when looked at through these systems.
- 25% of net campus emissions = fleet/transit
- What's the ROI? Mobile and static emissions have different cost benefits
  - Do we have to decide highest cost/benefits across the two or separately?
- Reducing parking permits: look at dollars lost by being successful
  - Those dollars should be maintained in budget
  - lost fee should be put into fund to go towards other projects
  - example: Buying CNG vehicle, cost savings from that goes into fund
- Reducing long term parking lot construction costs
  - Construction cost of space = \$5,000, upkeep cost \$100-200
  - Now any given weekday 300-400 empty spots, leasing out to DMV
- Give Matt everything that could be a cost or savings to University to put together a possible model
  - Show what happens if we don't have a good planning procedure in place
  - By avoiding these measures, ask that revenues be collected/put into fund for other projects

Cam:

- California/other states decoupling amount of energy from profits
  - A lot of examples of decoupling
  - How to you maintain revenue by doing the right thing?

Tat Fu

- Public at meeting is good idea

- Dept. of trans. Commissioner here last week
  - Mentioned how great model is working out at UNH
  - Should invite him to meeting
  - DOT might have strategy that would work really well on campus
- Could there be energy fees?
  - Refundable amount, less energy used – refunded
  - No incentive for students to save energy during challenge
  - Gone that route before, \$\$ wouldn't be given back in total
- Worth looking at other examples on other campuses

#### Fees and Funding:

- Students pay \$103/yr mandatory fee for transportation, includes transit/bike system etc.
  - Some talk about changing it to similar employee based system
  - Dept. pays transportation fee per employee
- Cam
  - Volunteer opportunity from staff/faculty to volunteer to pay a higher fee
  - Commuter students pay \$50 for parking
  - Residents pay varied depending on where
  - All students pay transportation fee

#### Meeting and Open Forum

- Should meeting be open to community?
- January meeting is NOT public
  - Used as meeting to plan a public forum later
  - Are Forums useful? Does something come out of them?
- Don't want to have ETF running the show, like idea of meeting first and then all presenting to public together

#### Buildings/Energy

- Is there a committee for buildings on campus – architecture etc.
  - Example of energy efficient window in Kingsbury but aluminum frame around it not insulated well.
  - Kingsbury using far less energy than 3 years ago
- New construction
  - Focus should be on utilizing most efficient equipment without creating a system where EEF is being tapped for new construction equipment
  - Funding doesn't exist
  - Learned lessons from James, updated standards to give equivalent of LEED Silver even if not officially LEED cert.
  - WSBE wanted it in new building and asked for LEED Gold

- Put more focus on energy portion of LEED, can have LEED building without a great energy efficiency system
- Taking best components of LEED on energy side to put into building/system
- Energy Challenge
  - From Andrew: Students largely didn't care about participating b/c of too many other thing going on
  - \$\$ incentive wouldn't have been effective
  - Students make decision at beginning of semester about what they'll do behaviorally
    - Will make effort to take the bus, make a schedule etc.

EEF: Matt

- Endowment money system doesn't translate well to all other organizations
  - Education about EEF model has helped other orgs in region
- This year
  - Kingsbury solar preheat system, solar energy from south wall to two air handlers
    - Will take a good chunk of energy from that building off grid
  - Retro-commissioning
    - Gregg Hall
    - Dairy nutrition center, out by cow barns
    - Need to spend time making sure things work as designed
      - Quick fixes may have modified system over years
      - Just going back into buildings helps find errors and fix them
      - Huge energy savings
      - Lawrence Berkely lab – multiple Publications
        - 18-20% on ave.
      - Regional GHG committee
        - Funding for energy projects in buildings
    - Has taken full year to get funding through etc. and start project
    - Two trying to fast track: Rudmann and Dimond Library
      - All four trying to get done by end of April
        - If done then will collect incentive funds
        - Close to \$1 million
        - Should be able to get 3-400,000 in incentive payments
        - State has extended incentive program but not backing down from timeline, hoping to move on to other buildings
    - Pay out period?
      - Gregg - \$350,000, expect over \$100,000 incentives, Min. of \$50,000/yr savings – 5yr payback
      - Should be able to achieve same if not beat those numbers on other 3 buildings

- Next 18 months
  - Focus on big projects, not really smaller lighting projects etc.
    - But many people tend to ask for that
- Looked at major overalls to Morse
  - Very expensive, substantial but not enough to warrant EEF project
  - Not funded with program right now but hopefully in future
- Funding EEF
  - Is there a policy issue?
    - Need more funding?
    - Put another \$.5 million into EEF this spring
    - First investment \$650,000, Now around \$250,000 FY12 dollars plus \$400,000 invested this spring, next year should be around \$350,000
      - Will CDC give us what we've saved
      - To date has worked
    - Should relate information to WildCAP
      - Founder's circle of endowment, WildCAP etc. all state that this needs to be funded
  - Can make repairs with funds from other source, combined with EEF money for better systems
    - Look for synergy of sources
    - i.e. vacuum pump, updates plus electricity savings, 5yr electricity savings equivalent was put into project from EEF funding
  - Cataloging issues, things on campus?
    - Checklist of systems/places on campus, if funding is cut, know already what's effective and what's not
      - Avoid having to go back and fix things, not have to lobby for simple fixes later
    - Stuff like this is happening already, don't necessarily say this is what we did w/ the fund, put in every building, doesn't make sense for all buildings

#### WildCAP

- First one was rush job
- Became guiding doc for group and guidelines for projects over the years
- Want to spend a lot of time this year looking at what do we want in next 20 years
- Senior project?
  - Perhaps case studies of projects done
- Cam – looked at 42 recommendations in wildcap
  - At least 20 are completed or in progress – 50% great rating
  - Revisit, what worked/what didn't, generate new ideas
  - Would need modeling done around that
  - 405 class has been reading WildCAP – thinking of ways to improve upon it

- maybe be much more explicit about energy and buildings
- great way to annually revisit document
- Dealines
  - Nov. 2013
  - Submitting to president's climate commitment by January 2014
- Have a couple of projects that can be done quickly
- Grants are actively being searched for projects that can be done
  - Coop has gotten REGGI funding

Huddleston Talking points on climate Change:

- Opportunity through talking points to educate him on breadth of what's going on, he can represent those on ACUPCC steering committee
- More than one year
  - Highlights of most important things, what's going on, what's been accomplished
- Good to mention at TPC joint meeting
- Good report, from UNHSI or ETF/TPC
  - UNHSI take lead on it

Students

- SEAC has meeting on January 29<sup>th</sup> with Huddleston
- 24<sup>th</sup> – speakers from Responsible endowment coalition, President from Unity (Tom K. helping get him?) Student activists doing same thing at other N.E. schools, other ppl from Greenpeace student network, Students for Just/Stable Future.
- Advisory committee being pulled together
  - Meeting next week Dec 11<sup>th</sup>
- 350.org list of worst companies, asking to divest from top 50% of list by 2015 and then the rest later

Other Student groups (Update from Alliance meeting held after ETF)

Take Back the Tap:

- Met with Dining about Coke Contract, Dining said it's up in 2016
  - purchasing website says 2021, not sure if there's more than one
    - Jackie looking into difference of dates
- Hoping to recruit more and do more outreach next semester
  - Environmental Advocates will be put in direct contact with them for hydration station tracking
  - TBTT intern is also Williamson RA (Naomi Odlin)

Net Impact:

## Sustainability Institute

- Big Spring event: Triple Bottom Line Career Fair UNIVERSITY of NEW HAMPSHIRE
  - Depending on how many companies commit/have jobs, looking more like career fair and networking event
- Met with Tina Sawtelle of UNH Foundation
  - Planning to interview Board of Trustees (of Foundation) in NY Jan/Feb.
- Will be presenting at Undergraduate Research Conference on Divestment issues

## Next Steps

- Look at energy funding/fees at other campuses to save money – What are incentives for students
- Matt and Steve first draft of agenda
  - Faculty/staff funding
  - EEF model
  - UNH Vehicle Fleet/Clean Fleet Advisor
- UNHSI utilizing information on EEF/WildCAP – being better about putting info in writing and highlighting systems on campus
- Tom sending Fiona report For The Green World (see below)
- Tom/Cam – great contacts at PAX world
- UNHSI taking lead on report on talking points for Huddleston
- Steve, Matt, including UNHSI on their meeting for ETF/TPC planning, to also include talking points for Huddleston
- \*\*find for Tom other schools that have divested (Jackie)
- \*\*Jackie attached Bill McKibben RollingStones article (see below)
- Meetings are same time, same place next semester

## Links/resources

To be involved in advisory capacity to SEAC on Divesment: [unhseac@gmail.com](mailto:unhseac@gmail.com)

World Bank Article referenced:

<http://www.climateanalytics.org/sites/default/files/attachments/publications/Turn%20down%20the%20heat%2011-16-12.pdf>

Bill McKibben Rolling Stones Article: “Global Warming’s Terrifying New Math”

<http://www.rollingstone.com/politics/news/global-warmings-terrifying-new-math-20120719>

