

Commitment

Use Campus Strategic Plan tracking system for regular review, critique, and accountability.

26 iCAP Assignment

Deadline

9/30/2010

Project Name

Integrate iCAP into Campus Strategic Plan

Results Desired

Data for Tracking

Contact Info

Morgan Johnston

Facilities & Services

Project Description

Add iCAP to Campus Strategic Plan

To do list

1) identify modifications to plan 2) select 2-3 KPIs to add to tracking 3) send periodic updates of about one paragraph in November

Notes

mtg with Stig and MBJ Stig Lanneskog

Metrics

Next step

identify plan changes

Next step due date

8/15/2010

Commitment

Use Campus Strategic Plan tracking system for regular review, critique, and accountability.

27 iCAP Assignment

Deadline

7/20/2010

Project Name

Integrate iCAP into Research Park

Results Desired

Reduced GHG Emissions

Contact Info

Jack Dempsey

VP TED

Project Description

Modify Developer Agreement to reflect iCAP commitments

To do list

see notes from mtg with MBJ and Jack

Notes

include Petascale example in Developer Agreement re - energy use threshold maximum

Metrics

Next step

meeting with VP TED

Next step due date

Commitment

Assign specific action steps to specific departments and tell them to create a detailed plan and report on progress.

28 iCAP Assignment

Deadline

12/10/2010

Project Name

Resource Plan for iCAP

Results Desired

Funding for Sustainability

Contact Info

Morgan Johnston

Facilities & Services

Project Description

Create a Resource Plan for iCAP by Dec 2010

To do list

1) Jack, Tom, Suhail, and MBJ review and assign iCAP tasks 2) Morgan help explain to do items to key contacts 3) contacts estimate resources need for thier iCAP assignment(s) 4) Morgan collect the info to complete a plan

Notes

who will complete the final plan? how will the plan be used? who will it be shared with?

Metrics

of FTE needed for staff time \$ of funding needed, outside of staff time?

Next step

finalize iCAP assignments

Next step due date

7/10/2010

Commitment

Assign specific action steps to specific departments and tell them to create a detailed plan and report on progress.

29 iCAP Assignment

Deadline

10/1/2010

Project Name

Progress Reports for iCAP

Results Desired

Funding for Sustainability

Contact Info

Dick Warner / Robin Kaler

Public Affairs

Project Description

To do list

Notes

could include ipod aps need progress report for Sustainability Week in October

Metrics

year on year changes in water, energy, carbon, fuel uses, etc.

Next step

Next step due date

Commitment

Develop an interdisciplinary 2-semester research seminar for grad students.

30 iCAP Assignment

Deadline

Project Name

Research Seminar

Results Desired

Behavior Change

Contact Info

Educational Sustainability

Education Task Force

Project Description

Suhail is already working on this could include a social marketing class, and ipod Aps Research seminar not taking place this year. Will need to identify funding for possible future attempt. But we should seek specific projects in which to engage students and faculty to do relevant research for iCAP implementation

To do list

Suhail is already working on this could include a social marketing class, and ipod Aps Research seminar not taking place this year. Will need to identify funding for possible future attempt. But we should seek specific projects in which to engage students and faculty to do relevant research for iCAP implementation

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Metrics

Next step

Next step due date

Commitment

Assess current courses that teach core competencies in sustainability, and identify possible gaps by December 2011.

31 iCAP Assignment

Deadline

Project Name

Integrate Sustainability into Curriculum

Results Desired

Behavior Change

Contact Info

Educational Sustainability

Education Task Force

Project Description

To do list

Notes

Need to discuss with them about currently planned next steps. Need to create and provide content for teaching to our faculty. Also need to train faculty that are not currently working on sustainability.

Metrics

Number of courses modified, number of students taught

Next step

Next step due date

Commitment

Continue plans for educational programs around iCAP and sustainability.

32 iCAP Assignment

Deadline

Project Name

Educational Programs

Results Desired

Behavior Change

Contact Info

Educational Sustainability

Education Task Force

Project Description

To do list

Notes

Nothing currently planned. Should work with them or OS, on continuing public outreach, presentations, etc about UI Sustainability and iCAP

Metrics

Next step

Next step due date

Commitment

Enhance UI engagement activities in arena of sustainability, like CCNet, SEDAC, and collaborations with corporations.

33 iCAP Assignment

Deadline

Project Name

Sustainability Public Engagement

Results Desired

Behavior Change

Contact Info

Steve Sonka, Mark Nolan,

Public Engagement

Project Description

To do list

Notes

Metrics

Next step

Next step due date

Commitment

Encourage student efforts in community in energy efficient projects, like weatherization for low-income homes, via illinicarbon, SECS, Green Business Association

34 iCAP Assignment

Deadline

Project Name

Student Projects Off Campus

Results Desired

Behavior Change

Contact Info

Educational Sustainability

Education Task Force

Project Description

To do list

Notes

Mara @ IGBA can help Jeff Rhodes at Building Research Council

Metrics

Next step

Next step due date

Commitment

Verify cost savings and re-invest a portion of those savings into other projects.

35 iCAP Assignment

Deadline

Project Name

Allocate Savings from Sustainability Projects to Sustainability Projects

Results Desired

Funding for Sustainability

Contact Info

Mike Andrechak & MBJ

Provost

Project Description

Set a policy for how to calculate and allocate savings

To do list

Notes

Utilities task force - due June 30th there was a meeting July 1 with Jack Dempsey and Mike Andrechak about the iCAP - what were the results of the meeting?

Metrics

Next step

Next step due date

Commitment

“clean energy” fund = a dedicated, centrally coordinated funding pool for iCAP projects, with revolving loan options, UI green marketing – leadership role - \$, donors, reputation

36 iCAP Assignment

Deadline

12/15/2010

Project Name

Clean Energy Fund

Results Desired

Funding for Sustainability

Contact Info

Mike Andrechak

Provost

Project Description

revolving loans - Josh Witson Doug Beckman, Mike Andrechak, and Steve Sonka. For both (36) and (37), the fundamental need is to determine desired level of funding for energy efficiency and renewable energy projects on campus. Then, we can determine how clean energy fund must operate - AFMFA and campus investment savings recapture, direct allocations from revenue from utility rates, external grants, etc etc

To do list

revolving loans - Josh Witson Doug Beckman, Mike Andrechak, and Steve Sonka. For both (36) and (37), the fundamental need is to determine desired level of funding for energy efficiency and renewable energy projects on campus. Then, we can determine how clean energy fund must operate - AFMFA and campus investment savings recapture, direct allocations from revenue from utility rates, external grants, etc etc.

Notes

revolving loans - Josh Witson Doug Beckman, Mike Andrechak, and Steve Sonka. For both (36) and (37), the fundamental need is to determine desired level of funding for energy efficiency and renewable energy projects on campus. Then, we can determine how clean energy fund must operate - AFMFA and campus investment savings recapture, direct allocations from revenue from utility rates, external grants, etc etc.

Metrics

Annual spending on energy conservation and renewable energy - both publicly unavailable numbers (and probably not compiled), from all sources.

Next step

Next step due date

Commitment

Pursue grants that reduce GHG emissions.

37 iCAP Assignment

Deadline

8/15/2010

Project Name

Grants for Reducing GHG Emissions

Results Desired

Funding for Sustainability

Contact Info

Morgan Johnston -

Facilities & Services

Project Description

Apply for six (off campus) grants per year for sustainability projects.

To do list

list of places to look for money - from Tom

Notes

create a list of grant opportunities and places to look - ICECF, DCEO, ARRA, etc, DOE, larger opportunities apply for six grants per yea. Need to develop list of major projects for which grants are desired, instead of always reacting ad-hoc.

Metrics

of grants sought % of grants awarded to UI \$ from grants per year

Next step

apply for ITEP, create project list

Next step due date

8/15/2010

Commitment

Cease any major investment in coal-fired systems at Abbott.

38 iCAP Assignment

Deadline

9/30/2010

Project Name

Abbott Power Plant 5-Year Plan

Results Desired

Reduced GHG Emissions

Contact Info

Mike Larson

Facilities & Services

Project Description

Write and implement a 5-year plan for Abbott that does not include any Significant investment to extend the life of the coal plant and incorporates plans for burning biomass.

To do list

1) resource plan 2) get approval of 5-year plan 3) implement it

Notes

Capital Plan for Utilities 1) no investments to extend the life of the coal plant, 2) gas load only... law 3) biomass - modifications .. in the plan. Capital plan is being prepared - or has been prepared. When are we reviewing?

Metrics

Next step

resource plan. Set date/plan for review of capital

Next step due date

8/15/2010

Commitment

Study, by December 2012, that examines campus energy generation and distribution systems, specifically elimination of coal use by 2017 and more efficient distribution of thermal energy (hot water distribution, regeneration, geothermal use). Explore waste-to-energy plants for electricity and steam generation

39 iCAP Assignment

Deadline

12/15/2012

Project Name

2012 Campus Energy Study

Results Desired

Energy Conservation

Contact Info

Kent Reifsteck

Facilities & Services

Project Description

Study, by December 2012, that examines campus energy generation and distribution systems, specifically elimination of coal use by 2017 and more efficient distribution of thermal energy (hot water distribution, regeneration, geothermal use). Explore waste-to-energy plants for electricity and steam generation.

To do list

1) resource plan 2) write the RFP for the study by Dec 2010 3) get BOT approvals, and hire A/E in spring 2011 4) have study completed by Dec 2012

Notes

Investigate the use of Biochar. - burn something, makes charcoal, bury it to sequester the carbon.- ignore biochar.

Metrics

Next step

resource plan

Next step due date

8/15/2010

Commitment

Upgrade Abbott to be able to burn biomass, like peers University of Iowa, University of Wisconsin at Madison, and EIU, to burn agricultural waste.

40 iCAP Assignment

Deadline

6/30/2011

Project Name

Burning Biomass at Abbott Power Plant

Results Desired

Use of Renewables

Contact Info

Mike Larson/Engineering

Facilities & Services

Project Description

Convert Abbott to burn biomass, plan in place by June 2011.

To do list

1) resource estimate 2) RFQ for biomass options to be issued by Dec 2010 3) plan in place for burning biomass at Abbott by June 30, 2011 4) design, construct, test

Notes

Have a plan in place by end of FY11. design, construct, and test. See how Wisconsin and Iowa have done it, take stokers, burn biomass. Can do it now by mixing it in with coal. Need to identify the format it is in, how to store it, how to burn it. testing, engineering, and purchasing steps. If this require capital investment, properly consider cost-benefit. Do not allow use of biomass to result in combustion on any amount of coal more than absolutely necessary.

Metrics

Next step

resource plan

Next step due date

8/15/2010

Commitment

Install a wind turbine on South Farms by FY11, and 2 more if feasible.

41 iCAP Assignment

Deadline

6/30/2011

Project Name

Wind Turbine

Results Desired

Use of Renewables

Contact Info

Morgan Johnston / Dick Drew

Facilities & Services

Project Description

Install a wind turbine in FY11.

To do list

clarify the players at F&S and finalize the RFP text

Notes

rooftop wind, feasibility study for another (two? - we have sites for two more, and will have infrastructure for two more) turbine in three years. Find pilot location for rooftop wind and implement.

Metrics

Next step

get out RFP

Next step due date

7/25/2010

Commitment

Install solar photovoltaic (PV) arrays on 250,000m2 of campus roofs, with a goal of 25MW peak generation capacity and 45million kwh of electricity. Move forward with solar cells on all parking decks.

42 iCAP Assignment

Deadline

11/15/2010

Project Name

Solar Power on Campus

Results Desired

Use of Renewables

Contact Info

Morgan Johnston

Facilities & Services

Project Description

Install solar photovoltaic arrays on four campus parking decks

To do list

1) resource estimate 2) RFP issued by Nov 2010

Notes

Michelle Winters, Phil Krein @ ECE, Doug Wolters, MBJ Get PVs on four major parking decks - North Campus Parking Deck, ECE, ICEcF - parking could be the lead. Morgan can work with Phil to get a guestimate of the costs to the UI. Get the RFP out by Nov/Dec target solar installation through the standards - there is funding for new construction with PVs - it will impact the parkers, they will want their electricity bills to go down. Some negotiation about who gets the power from them and the funding benefits - new F&S building standards has to get 7% renewables (which can use ICECF grants) DOE grants for solar, public-private partnerships - ESCO - Josh, options. SunEdison?

Metrics

Adopt specific solar targets as subsets of renewable targets? 4-5MW by 2015?

Next step

get out RFP (?)

Next step due date

Commitment

Seek power contracts that include substantial contributions from renewable energy sources, and tie in the State of Illinois requirements and contracts

43 iCAP Assignment

Deadline

Project Name

Campus Power Contracts for Renewables

Results Desired

Use of Renewables

Contact Info

Steve Sonka

Public Engagement

Project Description

To do list

talk to Gary Miller at surveys about the state program - ask Steve about the large initiative with GE

Notes

University level, Steve Sonka, Gary Miller, and Kent Reifsteck Steve Sonka is possibly negotiating a giant renewables contract, which we could buy from. Gary Miller can tell us what the State is doing to purchase renewables, and we could possibly piggy-back on that. MBJ talk to Gary, Jack talk to Steve Gary Miller knows re: MISO - they may have a renewables rate for purchase of green power if not, the Big Ten and Friends group should have the influence to get one. Jack is at the Prairieland board meetings

Metrics

Next step

additional research? Deadline of september to see

Next step due date

Commitment

Pilot methane capture project at Beef and Sheep Farm by 2015. All manure from South Farms should be converted to methane in a digester and routed to Abbott, and the byproduct can replace nitrogen and phosphorous fertilizer.

44 iCAP Assignment

Deadline

11/15/2010

Project Name

Methane Campus Project at Beef and Sheep

Results Desired

Use of Renewables

Contact Info

Helen Coleman

Facilities & Services

Project Description

Methane Capture Project by 2015

To do list

1) resource estimate 2) feasibility study Helen - CCRC Nov 2010 contract 3) study complete in time for project to be implemented in 2015?

Notes

check with Rolf Moller. KC Ting - dept head of Ag BioEngineering Dept. They are working in energy, and leaders in the country. the farms include dairy, swine, beef, and sheep look at existing digester - how is it set up? Who on campus would like to figure this out for us?

Metrics

[Empty box for metrics]

Next step

research and conversations about been and sheep

Next step due date

[Empty box for next step due date]

Commitment

'Miscanthus giganteus' boiler at Vet Med by FY11.

45 iCAP Assignment

Deadline

12/31/2011

Project Name

Miscanthus Boiler

Results Desired

Use of Renewables

Contact Info

Kelly Pfeifer, Jim Spese, Guy

Facilities & Services

Project Description

Miscanthus Boiler by Dec 2011, when the \$800K ICECF grant ends.

To do list

they need to meet the schedule, or maybe need an extension... I'll talk to Kelly and Jim to make sure we understand the needed timeline.

Notes

currently in or through design review - there is a steam meter on it which can tell us the amount of steam we are producing, and look at the overall campus steam, which will tell us the overall %age of steam use - will decrease steam demand at Abbott - will take one building off the grid. it will show up in the carbon figures automatically, but we do want to know the % renewables. CABER or Energy BioSciences Institute will get research benefits from it. is the timeline correct? Dec 2011 or is it Dec 2010?

Metrics

Next step

Next step due date

Commitment

Purchase additional carbon offsets locally. - make sure we do not double count (Additionality)

46 iCAP Assignment

Deadline

Project Name

Process for Purchasing Local Carbon Offsets

Results Desired

Funding for Sustainability

Contact Info

Wes Jarrell (retired), Tony

Project Description

NRES students are developing a local carbon registry <http://illinicarbon.illinois.edu>

To do list

see how other campuses get it to work correctly. - end of fall 2010

Notes

We need to know how to get this working and how to avoid double counting the carbon reduction. We can look at what other schools are doing internally, like Georgia Tech. This could be for offsets off campus... like giving students funding to do weatherization off campus

Metrics

Next step

Next step due date

Commitment

Achieve 5% renewable sources for total campus energy by 2015.
Can create public/private partnerships to facilitate shift and take advantage of federal and state tax incentives.

47 iCAP Assignment

Deadline

8/15/2010

Project Name

Renewable Sources

Results Desired

Use of Renewables

Contact Info

Suhail Barot/Morgan

Facilities & Services

Project Description

make a chart so we can fill in the interim goals

To do list

get hard numbers on the renewables commitment and strategy

Notes

Electricity was 450M kwh this year thus we need about 20-25M kwh of electricity from renewables annually. Wind turbine estimated to bring in about 20-25% of what we need. ECE and the PVs on BIF represents the rest of what we have. ECE might be as much as the turbine, or it could be much less. BIF is very small. As we've discussed, we've adopted energy not electricity target. Similar applicability though + biomass. Must develop list of desired projects capable of meeting need. Very dependent on need for campus steam, level of need to use coal boilers (only ones capable or burning biomass), and max fraction of biomass use (probably ~10%-25%)

Metrics

[Empty box for metrics]

Next step

[Empty box for next step]

Next step due date

[Empty box for next step due date]

Commitment

Enhance biodiesel options for UI fleet. Continue use of ASV's for fleet. Reduce F&S idling.

48 iCAP Assignment

Deadline

6/30/2015

Project Name

Reduce F&S idling

Results Desired

Reduced GHG Emissions

Contact Info

Pete Varney, Clark Wise, and

Facilities & Services

Project Description

Reduce idling in F&S vehicles by 10% each year for five years

To do list

1) resource estimate 2) identify strategies for reductions 3) track changes in idling

Notes

get Clark and Carl to make the change in idling reduce by 10% per year for five years for 50% reduction by 2015

Metrics

Next step

resource estimate

Next step due date

8/15/2010

Commitment

Enhance biodiesel options for UI fleet. Continue use of ASV's for fleet. Reduce F&S idling.

49 iCAP Assignment

Deadline

Project Name

Alternate Service Vehicles

Results Desired

Reduced GHG Emissions

Contact Info

Pete Varney

Facilities & Services

Project Description

Increase hybrid fleet, and alternative service vehicles.

To do list

1) resource estimate 2) update CAM to include purchase requirements

Notes

increase hybrid fleet each year, what's the right percentage? campus admin manual - to include purchase requirements, have to use it unless life cycle costs don't make sense - also review state requirements Natural Gas fuel for vehicles: There is also a compressed natural gas fuel being developed for our area, Pete will have more info. Can also convert to an all hybrid police and parking fleet, like Northern. charging stations for electric vehicles - how to control it? do we need to charge for electrical vehicle charging on campus? Especially for large vehicles, targeting best fuel-efficiency may make more sense than specific technology requirements.

Metrics

total campus motor pool fuel use vs. mileage travelled, and number of improved efficiency vehicles owned by campus.

Next step

Next step due date

Commitment

GHG emissions charge by 2015

50 iCAP Assignment

Deadline

7/1/2011

Project Name

Preferential Treatment for high MPG vehicles

Results Desired

Reduced GHG Emissions

Contact Info

Michelle Winters, Pam Voitik

Facilities & Services

Project Description

Instead of a GHG charge, implement carrots for people who choose to get high mpg vehicles - preferential treatment by location or place on waiting list: make it happen by 7/1/11 - develop a policy

To do list

1) resource estimate 2) identify incentive options 3) develop a policy 4) promote policy and high MPG vehicles

Notes

Parking can tell us the vehicles and owners for all permit holders. We need a different billing mechanism than T2... determine the fees (based on using that money to fund other items), and how to process payments. Need to remember the options for parking buy-out and other incentives also. Could require a sticker for students who don't have a parking permit. Pay more for a certain kind of car, and pay more for outside the county vs inside the county. Fee-bate model? -- this needs a policy developed, with tentative costs etc, and approval at a high level. Legal issues? Union issues? GHG fee is a stick instead of a carrot . what carrot would work? if vehicle gets over 40 mpg, then moves to top of wait list for parking lots? preferential treatment by location or place on waiting list: make it happen by 7/1/11 - develop a policy. maybe a green stripe on the permit to indicate fuel efficient permit. if they have that permit, and drive a big car then they get a citation. Must develop strategy to prevent union contract negotiations from hurting efforts to reduce driving to campus. Also students are not affected by union policies - can discourage student driving and parking without those constraints.

Metrics

Number of vehicles that park on campus. Number of vehicles that use "flexible" parking passes, or that participate in sustainability programs.

Next step

resource estimate

Next step due date

8/15/2010