1. Welcome and Introductions  
David Salcido, Co-Chair  
David Salcido called the meeting to order at 2:03pm. All members and guests introduced themselves. We welcomed a new Chancellor’s liaison, Ted Fritz, was introduced and welcomed by the committee co-chairs.

2. November 2021 Meeting Minutes Approval  
David Salcido, Co-Chair  
A motion to approve the draft November 2021 meeting minutes as written and seconded. There was no discussion by the committee members nor recommendations for edits. The minutes were approved as written.

3. University Campus Operations/COVID Plans – Update  
Chancellor’s liaison(s)  
There were not updates to be reported by Dave DeJong or other University liaisons and leaders as it relates to COVID operations.

4. Energy and Utilities Plans  
Scott Bernotas, Vice Chancellor  
Facilities Management  
Scott Bernotas provided a comprehensive overview of the University’s Energy and Utilities Master Plan, including a utilities overview, a summary of energy initiatives and energy results. Persons in attendance had an opportunity to ask questions. Please refer to the presentation attachment for details. Some highlights included:

- Campus energy center sensors now exceed 900K+ (updated from 800K+ noted in the slides)
- Increases in alternative energy sources (hydroelectric and solar) to replace fossil fuels
- Stormwater management and re-use
- Energy and water consumption results and achievements (slides 12-14)
- All renovation and construction projects must adhere to the strict energy guidelines established by the University

Grounds Update  
Andy Moran, Sr. Manager of Grounds  
Facilities Management  
Andy Moran provided a comprehensive overview of the University’s Grounds department, its team, primary functions and achievements. Please refer to the presentation attachment for details. Some highlights included:

- 2021 Year in Review (slide 18)
- Discussions related to tree replacement plans, types of trees, placement of trees to enable student activities and use of lawns to continue, lifespan of trees and the impact of urban factors on shortening the lifespan.
• The department continuously strives to reduce carbon emissions and noise emissions by transitioning power equipment from diesel or gas to electric-powered

• Scott Bernotas thanked Andy Moran and the Grounds team for their exceptional work with snow removal.

• Debbie Miller acknowledged the exceptional work that the Grounds team does with campus beautification, landscaping, flower beds, etc. She noted that while walking across campus during the summer/fall 2021, she took photographs of campus to use as Zoom backgrounds to highlight the beauty of the campus.

5. PUP Committee – Safety considerations

Dave Salcido facilitated the PUP committee discussion regarding items brought forward from the committee during its fall term monthly meetings.

▪ Committee name – results of email vote of the 14 voting members

Amy Morgan reported the results of the PUP committee name change vote taken electronically:
6 votes to change the name to Campus Utilization, Planning and Safety (CUPS)
3 votes to change the name to Plant Utilization, Planning and Safety (PUPS)
2 votes to change the name to Environment and Safety
1 vote for no name change
2 no responses (2 student representatives)

All persons in attendance were supportive of the majority vote to pursue a committee name change. As a result, the Co-Chairs will pursue the next steps required by the Faculty Senate to officially request a committee name change to “Campus Utilization, Planning and Safety Committee”.

▪ Standing monthly agenda item

As per the committee’s fall term discussions and recommendation, a standing agenda item for safety-related updates will be included beginning in February 2022. The update will follow the COVID operations update immediately preceding the monthly presentations and committee business action items.

▪ Addition of EH&S liaison to committee

David Salcido re-introduced newly appointed Chancellor’s liaison, Ted Fritz. Vice Chancellor for Public Safety and Emergency Management, to the group and provided him the opportunity to provide and overview of the scope of his responsibilities. Discussion ensured regarding the scope/topics to be presented at each monthly meeting. Ted Fritz also informed the group of another University committee that focuses primarily on police-related safety issues.

▪ Next steps

The co-chairs will ascertain the next steps in bringing our committee name change recommendation to the Faculty Senate
6. Announcements and New Business

All

Debbie Miller announced that the PUP committee’s Zoom meeting series link has been broken. She will be deleting the current series and sending a new series invitation for February through the end of the academic year. She also reminded to group that next month’s meeting returns to the third Monday of the month, February 21 beginning at 2:00pm.

Dave Salcido asked those in attendance if there were any new announcements or new business items to bring forward. Hearing none, the meeting was adjourned at 3:19pm.

Next Meeting: Monday, February 21, 2022 – 2:00pm (Zoom meeting)
## Elected Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Status</th>
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<tbody>
<tr>
<td>David Beck</td>
<td>SHRS</td>
<td>PRESENT</td>
</tr>
<tr>
<td>Jeanine Buchanich</td>
<td>GSPH</td>
<td>EXCUSED</td>
</tr>
<tr>
<td>Leslie Hammond</td>
<td>History, A&amp;S</td>
<td>PRESENT</td>
</tr>
<tr>
<td>Viktoria Harms</td>
<td>German, A&amp;S</td>
<td>PRESENT</td>
</tr>
<tr>
<td>Debora Miller</td>
<td>SHRS - Co-Chair</td>
<td>PRESENT</td>
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<tr>
<td>Paul Munro</td>
<td>SCI</td>
<td>PRESENT</td>
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<tr>
<td>David Salcido</td>
<td>Medicine – Co-Chair</td>
<td>PRESENT</td>
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<tr>
<td>Christopher Todd</td>
<td>Law</td>
<td>PRESENT</td>
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<tr>
<td>Eugene Wagner</td>
<td>Chemistry – A&amp;S</td>
<td>EXCUSED</td>
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## Student Representatives

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Jess Scott</td>
<td>GPSG</td>
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<tr>
<td>Isabel Lam</td>
<td>SGB</td>
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<tr>
<td>Kavita Vats</td>
<td>UPPSA</td>
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<tr>
<td>Rose Wu</td>
<td>CGS</td>
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## Staff Association Council

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<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Doris Dick</td>
<td>Office of Child Development</td>
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<tr>
<td>Barb Klipa</td>
<td>Medicine</td>
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## Pro-Tem members

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<th>Name</th>
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<tbody>
<tr>
<td>Irene Frieze</td>
<td>Psychology, A&amp;S</td>
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<tr>
<td>Susanna Leers</td>
<td>Law</td>
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## Chancellor’s Liaisons

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Scott Bernotas</td>
<td>** Vice Chancellor</td>
</tr>
<tr>
<td>Mary Beth McGrew</td>
<td>Vice Chancellor</td>
</tr>
<tr>
<td>Lucy Russell</td>
<td>Vice Provost</td>
</tr>
<tr>
<td>Greg Smith</td>
<td>Manager, Capital Projects and Physical Resources</td>
</tr>
<tr>
<td>Dave DeJong</td>
<td>Senior Vice Chancellor</td>
</tr>
<tr>
<td>Paul Supowitz</td>
<td>Vice Chancellor</td>
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<tr>
<td>Ted Fritz</td>
<td>Vice Chancellor</td>
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## Senate Appointments

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Robin Kear</td>
<td>Senate President</td>
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<tr>
<td>Chris Bonneau</td>
<td>Senate Liaison</td>
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<tr>
<td>Lori Molinaro</td>
<td>Senate Office</td>
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</tbody>
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* ** Primary liaison

## GUESTS:

- Andy Moran, Sr. Director of Grounds – Presenter
- Donovan Harrell, University Times
Energy & Utilities Master Plan

- Utilities Overview
- Energy Initiatives
- Energy Results
Future Planning

• Assessed all utilities against current, 10-year, and 30-year needs for:
  o Condition
  o Capacity
  o Configuration
Oakland campus (147 bldgs. at 15 MSF):

- **Heating:** Pitt/UPMC generate steam and augment it with steam generated from Bellefield Boiler Plant.

- **Cooling:** Chilled Water is provided by our three plants (Posvar, Petersen, and BST) which is distributed via Pitt chilled water lines.

- **Electricity:** Electricity is received at Oakland Substation and distributed across campus via Pitt’s six substations and feeder cables.

- **Gas, Water and Sewer:** Provided by local suppliers.
Utilities to meet Master Plan implementation

- Current full capacity of our steam plants is “just enough” to meet future needs.

- Electrical capacity is close for Upper Campus and we’ll need to add a 7th substation. This will also provide greater redundancy.

- Gas, Water and Sewer: Provided by local suppliers and are adequate in terms of configuration, capacity and condition.

- Chilled Water generation has reached capacity and additional capacity is needed.
  - We are constructing a new Chilled Water Plant and distribution lines
  - The new system will tie into one of our three plants for redundancy and eventually all chilled water systems will be inter-connected
UTILITIES OVERVIEW – Current Utility Usage

- Electricity, $7,437,182, 40%
- Steam, $4,618,423, 25%
- Chilled Water, $3,385,556, 18%
- Water & sewer, $2,565,784, 14%
- Gas, $406,234, 2%
- Steamline Maint, $150,219, 1%
Energy and Utilities Plans

Energy & Utilities Master Plan

- Utilities Overview

- Energy Initiatives

- Energy Results
A huge driver is the University’s commitment to Carbon Neutrality by 2037
  • We’ve accomplished a lot, but our goal posts were extended & raised here.
  • Facilities will lead ~ 60% of the remaining GHG emissions reduction

Two Strategies
  • Reducing Demand
    • Reduce consumption in all buildings, with focus on highest energy intensity bldgs.
    • Six buildings account for 40% of our energy use
  • Cleaning Supply ➔ Purchase Renewable Energy
    • 2 small short-term contracts for 100% renewables today
    • 2 long-term agreements for local hydro & solar (~40% total need)
ENERGY INITIATIVES – Oakland Campus

• Renovation & Construction have strict energy guidelines
  o Our Energy and Water Usage Intensity standards exceed industry guidelines
  o We are completing documentation to LEED certify 5 new buildings recently completed

• Campus Energy Center
  o Extensive (800K+ sensors) and 24/7/365 monitoring
  o Retro-Commissioning and Continuous Fault Detection

• Power Purchase Agreements for hydroelectric and solar power
  o In 2020, 18% of our energy originated from renewable energy sources
  o Hydropower ~25% of all our electrical needs (in 2024)
  o Solar Agreement will amount to 13% of all our electrical needs (in 2023)

• Stormwater Planning
  o New stormwater management infrastructure on new Bigelow Boulevard and WPU plaza
  o Upper Campus Chilled Water Plant will capture & reuse > 3 million gallons of stormwater
  o Plan has identified many opportunities to capture and reuse stormwater
Most favorable energy saving strategies for the 16 buildings are:

• Converting existing lighting to LED lighting

• Air change and temperature setbacks per occupancy or schedule

• Commissioning fume hood zone presence sensors (rapid payback)

• Demand control ventilation using air quality or particulate-sensing (lab spaces)

Created Energy Dashboard for these projects
Energy and Utilities Plans

Energy & Utilities Master Plan

• Utilities Overview

• Utility and Energy Initiatives

• Energy Results
Campus Energy Consumption/GSF - 2008+
(Campus Wide, Excluding Property Management)
ENERGY RESULTS – Water Consumption
ENERGY RESULTS – Recent Specific Achievements

• Achieved lowest energy use since tracking began in 2008 – usage held flat last year

• Fault detection and diagnostics system installed on 19 buildings and in FY22 (to-date) has yielded $231,000 in avoided energy costs

• LED lighting upgrade program saving more than $390,000 annually across 17 buildings
  • Four additional buildings in “construction” now and will add another $138,000 in annual savings

• Water Conservation projects helped the campus decrease water use by 27% since 2015

• Team monitors data for leaks – and saved an average of $163,000/month last year

• 15 buildings have been LEED certified, with another 3 pending (Gold and Platinum)
Grounds Department

What We Do

• Annual planting and landscape planning
• Maintenance of landscaping across campus
• Special Event and Sporting Event Preparations
• Pavement clearing (snow/debris/etc...)
• Exterior trash cans
• On-Call 24/7
Who We Are

Workgroup 6
1 Senior Manager, 2 Assistant Managers, 2 Crew Leaders,
1 Mechanic, 31 Groundskeepers

The Grounds department provides all of the landscaping services required to make the University of Pittsburgh Oakland campus a diamond in the rough.

The department spends over 500 hours annually training all of the Groundskeepers proper horticulture practices, lawn maintenance techniques, equipment safety and operation.

Everyone of our dedicated team members takes pride in their work and strives to provide the University community a beautiful campus to learn, work, relax, and live in.
Year in Review

• Two student groups planted over 100 pollinator friendly plants on campus

• Purchased a battery powered large area mower, reducing one large diesel powered mower

• Reduced gas powered backpack blower use by 90%, only using gas powered blowers during the heaviest leaf fall and some snow events

• Enabling project reforested with 1,773 new trees

• Goatscaped Japanese knotweed on Centre Ave below Sports Dome twice in 2021
Snow and Ice Management

• Over 32 miles of sidewalks, 2,000 steps, 35 parking lots

• Call-in between 15 and 45 staff for snow removal

• Campus is sectioned into 13 zones and 4 truck routes

• 4 different ice-melter products used throughout campus

• Snow removal also provided for athletic fields, crosswalks, fire hydrants, emergency call boxes and Sports Dome
Snow and Ice Management
Looking Forward

• Enabling project landscape and tree grow-in

• Extensive tree maintenance around Cathedral of Learning

• Tree Campus USA application being sent in by end of January

• Continue phasing in battery powered equipment

• Develop plans to continue towards our 2030 goal of increasing the tree canopy and reducing mowable grass areas