

**MEETING OF THE
FINANCE & INFRASTRUCTURE COMMITTEE**
Board of Regents for Higher Education
Hartford, Connecticut

Thursday, November 17, 2016
To follow Executive Committee Meeting (which begins at 10:00 am)
Regents Board Room
61 Woodland Street, Hartford, CT

Agenda

1. APPROVAL OF MINUTES FROM THE OCTOBER 13, 2016 MEETING

2. ACTION ITEMS

- A. Amend Board Resolution 08-39 – Correction of action taken at October 13, 2016 meeting which inadvertently rescinded entire policy instead of amending/eliminating the portion relating to Telecommunication Charges
- B. Western Connecticut State University Naming of Study Space in the Westside Classroom Building in honor of the Rizzo and Rebeiro families.

3. INFORMATION ITEMS

- A. Energy Conservation Program – Summary of efforts underway to save energy costs, preserve the environment, and enhance facilities

**MEETING OF THE
FINANCE & INFRASTRUCTURE COMMITTEE**

Board of Regents for Higher Education

October 13, 2016, at 10:00 a.m.

61 Woodland Street, Hartford CT

Minutes

REGENTS PRESENT

Richard Balducci, Committee Chair

William McGurk

Barbara Richards

Merle Harris

REGENTS ABSENT

David Jimenez

Holly Palmer

Catherine Smith

CSCU STAFF

Erika Steiner, Chief Financial Officer; Alice Pritchard, Chief of Staff; Joe Tolisano, Chief Information Officer and Sean Bradbury, Director of Governmental Relations

With a quorum present, Chairman Balducci called the meeting to order at 10:05 a.m.

1. Approval of the Minutes from the August 25, 2016 Meeting

The minutes of the August 25th meeting were unanimously approved, as written.

2. ACTION ITEMS

A. CSU Policy re: Consolidated Telecommunications Charges

CIO, Joe Tolisano provided background information regarding the recent project that gave the 4 universities full control of their campus telephone systems. When the System Office ran all of the phone systems, funds were collected from each university annually to provide for equipment replacements and upgrades. The accumulated amount in reserves is approximately \$3.1 million. The proposal is to eliminate the charge back system of \$300,000 per year and to return those funds back to the Universities to fund their own reserve. Each University will determine their own needs when setting up their reserve funds.

A motion by Regent McGurk, the Committee unanimously approved the resolution.

B. Connecticut State Universities Student Health Insurance Policy

CFO Steiner introduced the proposed resolution, explaining that BR 12-094, which amended BR 03-15, requires the CSU's to provide mandatory accident and sickness insurance for full-time and

certain part-time students. She further explained that since the Affordable Care Act, there are significant changes on how students may obtain coverage. The proposal is to no longer provide sickness insurance coverage, which is paid for by the student, but to instead, provide education and information to students so they can make informed decisions about their healthcare. Accident insurance will continue to be provided. Sean Bradbury, Director of Governmental Relations, also spoke to the proposal, explaining that data from a study at CCSU and SCSU revealed that a significant number of students would qualify for Medicaid or subsidized private coverage. CFO Steiner further explained that this proposed change has no cost benefit to the system, only to the students. It was also explained that, if passed, this change would impact current students in July and they would be directly contacted informing them of the options for securing coverage. Information would also be provided to incoming students and on our websites.

The Resolution amending Board Resolutions 12-094 & 03-15 to no longer mandate sickness insurance programs and was unanimously approved on a motion by Regent McGurk.

3. DISCUSSION

A. Connecticut Community Colleges Banded Tuition Policy

CFO Steiner recapped the background information regarding a possible proposal that all students pay the same rate per credit hour taken.

Chairman Balducci also stated that this is for discussion purposes only; the Committee is looking for input from faculty, staff, students, members of the Board and the community and stated that changes are needed due to costs. He asked for questions.

The following questions were raised:

How does this proposal fit in a more comprehensive look at all cost savings measures?

Timing is an issue; students need time to plan for this.

How many students are PELL eligible?

How many students are not PELL eligible?

Is there enough institutional aid to help those students?

Would like more analysis as to how this pertains to students of different income levels; what actually happens to them with this proposal? Can they afford it?

Can we look to legislators to not cut community college funding?

Can we look in all areas of cost to make cuts?

Chairman Balducci stated this proposal, if passed in the future, would not take effect for the Spring semester, but possibly next Fall or later. Chairman Balducci further explained that input is needed from all involved, including students and legislators. He is also looking for involvement, from parents and students with ideas and suggestions for alternative cost savings. He further explained that this is the first of many financial issues that we will need to deal with. He also invited everyone to contact him with comments, stating that the Board is willing to listen.

CFO Steiner also invited anyone to send questions via email to her. She will collect and share with the Committee and the Board.

The meeting was adjourned at 10:37 a.m.

STAFF REPORT**FINANCE COMMITTEE**

NOTE this Item is a repeat from the October 13, 2016 meeting to correct technical implementation. The original intention was to amend the referenced policy to eliminate the requirements to set aside funds for Telecommunications, but the original language inadvertently rescinded the entire policy.

ITEM

Connecticut State Universities (CSU) Policy Amendment: **Fund Balance Guidelines**
Telecommunication Charges

BACKGROUND

Board Resolution # 08-039 approved on May 15, 2008 provides Fund Balance Guidelines for the CSUs. In accordance with this resolution, the CSUs are required to “within the Systemwide unrestricted fund balance, [provide an amount] of three hundred thousand (\$300,000) dollars annually to provide for ongoing telecommunication equipment replacement and upgrade.”

These funds were used as a reserve for CSU equipment and projects managed by the System Office Telecommunications staff. In order to support this requirement, funds were collected from each university, and accumulated in a reserve which totals approximately \$3.1M as of September 7, 2016.

ANALYSIS

After significant evaluation of the process by the Chief Information Officer, his staff, and the four CSU leadership teams, the CSU telecomm auxiliary services is being dissolved and the funds will be returned to the CSUs.

The model of centralized services for telecommunications is no longer valid at a residential campus that operates 24 hours a day. It's more appropriate that each University manage and control their own networks and telecommunications infrastructures.

The CIO's organization is in the process of disbanding the central function, ensuring that the Universities are equipped to transition responsibility, and dispersing the system reserves to each institution's reserve balance. The timing coincides with new voice and network systems being implemented at the CSUs. The Universities will in turn hold the reserves for repair and replacement equipment, and in the future establish individual reserves as required to maintain their equipment. As of now, Eastern, Central and Southern are ready to take ownership of the process, and the team at Western is still in transition.

As a result of this transition, management is requesting that the Board ~~rescind~~**amend** the former policy, and that System Office cease collection of funds from the four Universities beginning immediately. Further, management requests that the Board approve returning the System Office reserve to the four Universities in a mutually agreed upon, equitable manner.

RECOMMENDATION

Amend Board Resolution 08-39 and abolish the need for a system reserve for telecommunications, allowing each CSU to manage their own telecommunication costs and requirements and allowing the CSUs to establish individual reserves within their available resources to provide for telecomm replacement and upgrade requirements.

11/17/16 – Finance Committee

12/8/16 – Board of Regents

RESOLUTION

amendment of CONNECTICUT STATE UNIVERSITIES (CSU) POLICY **FUND BALANCE GUIDELINES TELECOMMUNICATION CHARGES**

~~October 20, 2016~~ **December 8, 2016**

WHEREAS, Board Resolution # 08-039 approved on May 15, 2008 provides Fund Balance Guidelines for the CSUs, and states that the CSUs are required to set aside “within the Systemwide unrestricted fund balance, [] three hundred thousand (\$300,000) dollars annually to provide for ongoing telecommunication equipment replacement and upgrade,” and

WHEREAS, These funds were used as a reserve for CSU equipment and projects managed by the System Office Telecommunications staff, and

WHEREAS, In order to support this requirement, funds were collected from each university, and accumulated in a reserve which totals approximately \$3.1M as of September 7, 2016, and

WHEREAS, This process is being decentralized in order to allow the individual universities to manage the process locally so that they may accommodate the varying campus needs, therefore be it

RESOLVED, That Board Resolution 08-39 is ~~rescinded~~ **amended** abolishing the need for collecting telecommunications support funds from the CSUs, and abolishing the need for a System reserve for telecommunications, and be it further

RESOLVED, That the current funds held at the System Office for this purpose will be allocated to the CSUs to hold in reserve to support their individual telecommunication requirements, and be it further

RESOLVED, That the CSUs will establish individual reserves going forward as deemed appropriate for this purpose.

A True Copy:

Erin A. Fitzgerald
Secretary, Board of Regents
for Higher Education

Addendum

FUND BALANCE GUIDELINES

proposed deletions for 12/8/16 BOR consideration detailed below

Operating Fund

The operating fund from a funds accounting perspective is known as the current fund, and accounts for those economic resources which are expendable for carrying out the primary purpose or general operation of the university: instruction, research, and public service. The current fund consists of two subgroups - unrestricted current funds and restricted current funds.

Current unrestricted funds are resources received by a university that have no limitations or stipulations placed on their use by external agencies or donors. These funds are often deemed the most desirable resources for an institution, since they offer the widest range of flexibility concerning how monies can be spent. Tuition, fees, and legislative appropriations are typical examples of revenue sources received as unrestricted current funds.

Current restricted funds are resources provided to a university that have externally established limitations or stipulations placed on their use. Such restriction can be broad or very specific.

Designated funds result from internal designations placed on resources by the governing board or institutional management and constitute an allocation of current unrestricted funds. These designations can change at any time. Any unrestricted resources designated to specific fund groups (plant, loan, or quasi-endowment) are included in such fund groups by a transfer, which can be either mandatory or non-mandatory, depending on the circumstances.

Within the Connecticut State University System, the Board of Trustees, the Chancellor, and the University Presidents are authorized to designate funds for certain purposes such as major expenditures that may require more funds than would be available for the specific purpose in a single year or for a future project. The designated funds will be accounted for within the accounting system.

In general, fund balances must be sufficient to

- a) finance open commitments including multi-year projects not structured on a fiscal year basis, such as implementation of large information systems;
- b) provide funds designated for major expenditures that may require more funds than would be available for the specific purpose in a single year or for a future project;
- c) provide sufficient funds to ensure financial stability in the event of unfavorable economic conditions and/or permit operation of the University/System for a reasonable length of time in case of emergency. NOTE: Except in case of extreme emergency, undesignated current fund balances shall not be used to subsidize ongoing current operations.

Required Unrestricted Funds – University

Each University shall provide for an unrestricted fund balance without deduction for the reserve for accrued compensated absences as well as the impact of all assets due from the State of Connecticut and all liabilities due to the State of Connecticut, and including required and permitted plant fund transfers (“adjusted unrestricted fund balance”), as follows:

- Five (5) to seven (7) percent of the University’s total budgeted *educational and general expenditures and auxiliary services expenditures* for the current fiscal year; plus
- Current portion of the University’s accrued compensated absences from the prior year financial statements, since this is the amount that is estimated to materialize in the current fiscal year; plus

- Two (2) to five (5) percent of *housing and food service fee revenues* annually for the purpose of meeting the annual refurbishing and equipment replacement/acquisition requirements of these activities, with the proviso that if any of these particular funds remain unspent in the current year, they may be carried over into subsequent years to be used for the same purpose; plus
- Funds designated due to Student or other non-debt-service commitments (must be pre-approved by the Chancellor and the Board of Trustees); plus
- Unrestricted funds set aside for debt service funding/pre-funding on student housing or student parking garages

Project Fund

Should a University's adjusted unrestricted fund balance exceed the above level, the excess shall be transferred to a Systemwide Project Fund, which shall be used to fund University and Systemwide projects on a request basis, based on the merits of the request according to established criteria. The Project Fund shall be overseen by the Council of Presidents and the Chancellor, who shall develop the aforementioned criteria to determine the circumstances and guidelines under which the Project Fund may be used. Proposals to use the Project Fund shall be made to the Council of Presidents, who will determine the acceptability of each proposal and provide their recommendation(s) for use to the Chancellor by way of written justification. The Chancellor shall not be bound to accept the recommendation(s) of the Council of Presidents, but will take them under advisement. Should the Chancellor choose to advance any proposal(s), he shall provide his final recommendation(s) to the Executive Committee of the Board of Trustees for discussion and action within 60 days of the Council of Presidents' recommendation(s).

Should a University's adjusted unrestricted fund balance fall below the required level, the University President may request of the Council of Presidents and the Chancellor that the University's adjusted unrestricted fund balance be replenished through the use of the Project Fund. The request shall be in writing, and shall detail why the University believes that it would be unable to restore its adjusted unrestricted fund balance to the required level within two years, and why the infusion of Project Funds is necessary. The University shall further detail measures that it will put in place to restore its adjusted unrestricted fund balance and replenish the Project Fund within five years following the infusion.

Required Unrestricted Funds – System Office

The System Office shall maintain a System Office unrestricted fund balance without deduction for the reserve for accrued compensated absences as well as the impact of all assets due from the State of Connecticut and all liabilities due to the State of Connecticut ("adjusted unrestricted fund balance"), of an amount not to exceed five (5) percent of the System Office's total budgeted *educational and general expenditures and auxiliary services expenditures* for the current fiscal year; plus the current portion of accrued compensated absences from the prior year financial statements attributable to personnel charged to the System Office, since this is the amount that is estimated to materialize in the current fiscal year.

Required Unrestricted Funds – Systemwide

The System Office shall maintain a Systemwide unrestricted fund balance without deduction for the reserve for accrued compensated absences as well as the impact of all assets due from the State of Connecticut and all liabilities due to the State of Connecticut ("adjusted unrestricted fund balance"), as follows:

- One and one-half (1 1/2) percent of the System's total budgeted *educational and general expenditures* of the current fiscal year; plus
- Current portion of accrued compensated absences from the prior year financial statements attributable to personnel charged to Systemwide Operations, since this is the amount that is estimated to materialize in the current fiscal year; plus

- ~~Three hundred thousand (\$300,000) dollars annually, if needed, to provide for the advancement of Systemwide projects and/or equipment in the area of Information Technology, including Telecommunications; with the proviso that if any of these particular funds remain unspent in the current year, they may be carried over into subsequent years to be used for the same purpose; plus~~
- Funds designated due to Student or other non-debt-service commitments (must be pre-approved by the Chancellor and the Board of Trustees)

Should the Systemwide adjusted unrestricted fund balance exceed the above level after required transfers to plant fund, the excess shall be transferred to the Project Fund.

Should the System Office or Systemwide unrestricted fund balance fall below the required level, the Chancellor will develop an action plan to restore the adjusted fund balance to the designated level within a reasonable time, including possible infusion from the Project Fund. This action plan shall be presented to and receive the concurrence of the Executive Committee of the Board of Trustees. The Chancellor shall notify the Council of Presidents of any approved infusion of funds from the Project Fund to the System Office or Systemwide fund balance.

Plant Fund

Plant fund purposes consist of the following: plant construction or acquisition; payment of interest and/or principal on plant-related debt; and renewal and replacement of facilities (including maintenance of plant). Funds received from outside providers for capital projects may not be used for other purposes unless approved by the provider.

1. Debt Service

Fund balances maintained in the plant fund for debt service are transferred to this account from the current fund to meet statutory requirements to pay for University self-supporting construction projects. Interest earned on these funds is unrestricted, but is designated for debt service purposes in order to minimize student fee charges.

2. Transfers to Plant Fund

Annually, each University shall provide to the Board of Trustees a report listing the designated purpose(s) and amount(s) of all unrestricted current operating funds transferred or intended to be transferred into the plant fund in that year. This report is to be provided to the Finance and Administration Committee as part of each University's spending plan submission. Any transfers or intended transfers from the unrestricted current fund to the plant fund made by the Universities, other than the required amount for annual refurbishing and equipment replacement/acquisition for housing and food service, must be approved by the Chancellor and the Board of Trustees in advance.

Other Funds

Unrestricted, self-supporting funds, such as those resulting from entrepreneurial activities or university self-supporting units, may also have unrestricted fund balances. Fund balances for these types of activities will vary depending upon the scope of the activity and will remain with the activity or unit during its lifetime. Should an activity find its fiscal viability threatened, the University President will make a determination as to the continued existence of the activity.

Unrestricted revenues of other funds such as the endowment fund group, loan fund group, annuity/life income fund group and the research fund, if realized, may be designated for certain purposes by the appropriate authority(s) enumerated above.

Use of Fund Balances

Any use of current fund or plant fund balances must be approved by the Chancellor and, if the amount to be used is \$250,000 or greater, by the Board of Trustees. Ordinarily this approval will take place at a regularly scheduled meeting of the Board of Trustees; however, in urgent cases, the Chancellor may approve the use of fund balances of \$250,000 or greater. In these instances, the action will be brought to the next scheduled meeting of the Executive Committee for ratification, followed by ratification by the Board of Trustees at their next scheduled meeting.

STAFF REPORT**FINANCE AND INFRASTRUCTURE COMMITTEE**

ITEM

Naming of the Study Space in the Westside Classroom Building in honor of the Rizzo and Rebeiro families.

BACKGROUND

The Board of Regents has the sole authority to provide for the naming of facilities and programs at the Connecticut State Universities. Through the policy dated April 8, 2009, the Board provides direction for naming of present or future facilities, major areas (such as auditoriums and room with major public visibility) within existing or future facilities, existing facilities which have undergone major renovations, or areas on University grounds for which a naming opportunity exists.

The object of the policy is to enhance the ability of the institutions of the Connecticut State University System to encourage and pursue contributions in support of institutional goals.

ANALYSIS

MaryJean Rizzo-Rebeiro, President of NY-CONN Corporation, who is a member of the Western Connecticut State University Foundation Board of Directors and the Western Connecticut State University Ansell School of Business Advisory Board has given \$50,000 to name the Study Space, located in the center of the Westside Classroom Building.

The Study Space is located in the center of the Westside Classroom Building, which is located on the WCSU Westside Campus at 43 Lake Avenue Extension, Danbury, CT.

The University seeks to thank Ms. Rizzo-Rebeiro for her generosity by granting the request to name this Study Space after her family.

RECOMMENDATION

Approve the naming of the Study Space in the Westside Classroom Building in honor of the Rizzo and Rebeiro families.

STAFF REPORT**FINANCE AND INFRASTRUCTURE COMMITTEE**

ITEM – Information Only

Energy Conservation Program

COMMENTS

As CSCU is heading into a challenging fiscal period, the Facilities organization has been developing energy programs that contribute savings to our high utility costs while focusing on environmental protection.

As Utility Expenses are the third largest dollar value in our spend profile, following personnel costs and institutional financial aid, this has been an area of particular emphasis for cost containment, and where available, cost reduction.

Great progress has already been made, but the Facilities management team has identified more projects and ongoing programs to continue these efforts.

11/17/16 Finance & Infrastructure Committee

12/08/16 Board of Regents



Energy Conservation Program Overview

November 17, 2016

CSCU Energy Conservation Program Overview

Vision

**Develop long term sustainable resources that enhance
Connecticut Higher Education**



CSCU Energy Conservation Program Overview

Program Objectives

- **Guided Sustainable Opportunities**
- **Reduce Fossil Fuel Dependency**
- **Lower the Carbon Footprint**
- **Behavior Modification**
- **Decrease Facility Operating Expenses**
- **Leverage Funding Opportunities**



CSCU Energy Conservation Program Overview

Guided Sustainable Opportunities

OBJECTIVE

- **Understand what we know as a combined group**
- **Understand what we don't know?**
 - **Tried and proven opportunities**
 - **Available technology**
 - **Purchasing vs. partnerships**
 - **Cost driven models**



CSCU Energy Conservation Program Overview

Guided Sustainable Opportunities

OPPORTUNITY

- **Facilities Master Plan Study**
academic & major facilities based needs
- **Hazard Mitigation Study**
FEMA risk management of natural occurrences
- **Energy Conservation Master Plan**
20% spending reduction goal
- **LEED Silver or equivalent**
renovations greater than \$2m
new construction greater than \$5m



CSCU Energy Conservation Program Overview

Reduce Dependency on Fossil Fuels

OBJECTIVE

- Reduce dependency of petroleum based products
- Coals use for producing electricity
- Increase use of:
 - solar
 - wind
 - geothermal
 - hydroelectric



CSCU Energy Conservation Program Overview

Reduce Dependency on Fossil Fuels

OPPORTUNITY

- **Maximize use of high efficiency mechanical & electrical equipment**
- **Maintain building envelope**
- **Micromanage interior building environment**
- **Material Selections**
- **Pursue alternate energy systems**
- **Strategize energy purchases**



CSCU Energy Conservation Program Overview

Carbon Footprint Reduction

OBJECTIVE

- **Reduce carbon dioxide emissions (greenhouse gas)**
Emissions are calculated per organization or activity
- **American College & University Presidents' Climate Commitment**
7 signatories for carbon neutrality by 2050
- **Promote renewable energy**
- **Power management**
- **Green technology**



CSCU Energy Conservation Program Overview

Carbon Footprint Reduction

OPPORTUNITY

Campus Level

Alternate Fueled Vehicles

- Electric
- Hybrid
- Biodiesel



Single Stream Recycling



Energy Efficient Lighting

Energy Efficient Mechanical Equipment

Automated Environmental Controls

Low Water Volume Plumbing Fixtures

Educate Students and Staff



CSCU Energy Conservation Program Overview

Behavior Modification

OBJECTIVE

- **Low-Cost energy reduction programs**
- **Raise awareness and motivate**
- **Proactive Policies**
- **Reduction in wasted energy**
- **Sustainable effort**
- **Encourage new energy saving ideas**
- **Behavior + Technology + O&M = Savings**



CSCU Energy Conservation Program Overview

Behavior Modification

OPPORTUNITY

Take the Stairs!



Burn calories,
NOT electricity



- Energy Dashboard
- Awareness
- Layered Clothing vs. Thermostat
- Turn Unnecessary Lights Off
- Stairs vs. Elevator
- Recycle
- Greenscape
- Incentivize Programs



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OBJECTIVE

- **Available grant funding**
- **Power Purchase Agreements**
- **Utility Company Incentives**
- **Energy Purchases**
- **Life Cycle Cost Analysis**
- **CSCU Green Bank**



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY – Power Purchase Agreement

- **Fuel Cells**
 - Power Purchase Agreement (PPA) with 50% grant funding from the Former CT Clean Energy Fund
 - CCSU – 1.4 megawatts with \$200,000 estimated annual savings
20-year contract term
 - ECSU – 400 kW at cost neutral savings
10-year contract term
 - WCSU – 400 kW at cost neutral savings
10-year contract term



ECSU – 400 kW Fuel Cell



CCSU – 1.4 Megawatt Fuel Cell



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY – Power Purchase Agreement

Photovoltaic (PV) Solar Cells

PPA with Renewable Energy Credit (REC) supplemental funding

- MXCC – 100 kW array with \$10k estimated annual savings
ground application
- SCSU – 1 megawatt array with \$50k estimated annual savings
ground, roof & canopy applications
- MCC – 2 megawatt array at \$250k estimated annual savings
ground application

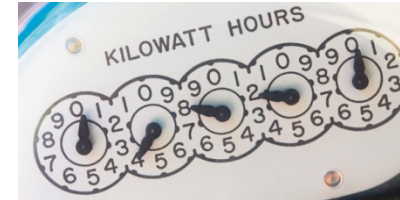


CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY – Energy Purchase

- **Reverse Energy Auction**
 - 2013 reverse electricity contract
 - System-Wide 93m kilowatts at \$21m purchased for three years
 - 5% more Green Energy than the Renewable Portfolio Standard (RPS)
 - \$400,000 projected annual savings over utility company rate
 - 2016 6-month electricity contract extension
 - \$155,000 projected annual savings over current contract rate
 - \$213,000 projected 6-month savings over utility company rate
 - 2016 reverse energy auctions
 - Electricity auction in process for December, 2016
 - Natural gas auction in process for March, 2017



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY – Life Cycle Cost Analysis

- **Retro Commissioning**
 - “rebalancing” of existing plumbing, electric & mechanical equipment

- Project Examples:

- Central Connecticut State University

1. **Project:** Energy Center Phase II Retrocommissioning
2. **Description:** Provide variable frequency drives for boiler force draft fans, optimize ventilation systems, and convert boiler feed pumps to variable flow.
3. **Estimated total project cost:** \$270,671
4. **Estimated annual savings:** – \$192,332
5. **Estimated simple payback:** 1 1/2 years

- Central Connecticut State University

1. **Project:** Phase III Retrocommissioning
2. **Description:** Retrocommissioning Herbert Welti Hall, Harrison Kaiser Gym, and the Student Center.
3. **Estimated total project cost:** \$185,800
4. **Estimated annual savings:** – \$74,700
5. **Estimated simple payback:** 2 1/2 years



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY – Utility Company Programs

- Project Examples:
 - **Retrofitting & Rebates**
 - Site - Naugatuck Valley Community College
 - Project- Parking garage fluorescent lighting to LED & misc. electrical improvements

Utility Co. Rebate -	\$450,000
Out of Pocket -	<u>\$175,000</u>
Gross Project Cost -	\$625,000

Annual projected energy savings of \$110,000

Out of pocket expense recouped in 20 months from electricity savings



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY – Utility Company Programs

- Project Examples:
 - **Other Retrofit & Rebate Projects to be started**
 - **Steam Traps**
 - Western CT State University
 - Norwalk Community College
 - **Retro-commissioning**
 - Manchester Community College
 - Tunxis Community College
 - Gateway Community College



CSCU Energy Conservation Program Overview

Leverage Opportunities

OPPORTUNITY – Construction

- **High Efficiency Building Design**

LEED silver or equivalent

- 14 current facilities with LEED certification or equivalent
- 12 new facilities in design or construction
- 1 **“Net Zero”** facility in design
annual energy = renewable energy created on the site



Gateway CC Roof Garden



QVCC Advanced Mfg.



ECSU Science Building



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY (page 1 of 3)

Partnerships

CSCU **GREEN** Bank

CSCU **GREEN** Bank funding for colleges & universities

Cause

Establish a dedicated energy conservation funding source that promotes a balanced environment while controlling operating expense increases

❖ Case Study

NVCC Parking Garage LED Lighting Improvements

\$175,000 out of pocket expense

\$110,000 annual energy savings

20 month payback

*NVCC defers project funding to the CSCU **GREEN** Bank*



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY (page 2 of 3)

Partnerships

CSCU **GREEN** Bank

✓ Project Funding Option

CSCU **Green** Bank project funding for NVCC of \$175,000

No up front out of pocket expense for NVCC

NVCC immediately gains:

- ✓ new equipment:
- ✓ warranties
- ✓ no system maintenance
- ✓ no relamping
- ✓ better lighting levels promoting safety & security



CSCU Energy Conservation Program Overview

Leverage Funding Opportunities

OPPORTUNITY (page 3 of 3)

Partnerships

CSCU GREEN Bank

- ❖ NVCC repays the CSCU Green Bank
repayment is based from the first 22-months of electricity savings
- ✓ NVCC's Benefit
capital funding is not tied up in this project
other important capital projects can be completed
full access to annual savings is quickly achieved

System-Wide Effect

Long term energy conservation commitment
Improvements with no upfront capital funding from college/university
Institution immediately obtains gainful use of new equipment
Energy expenditures are driven down
Revolving fund provides for reinvestment into future projects

