

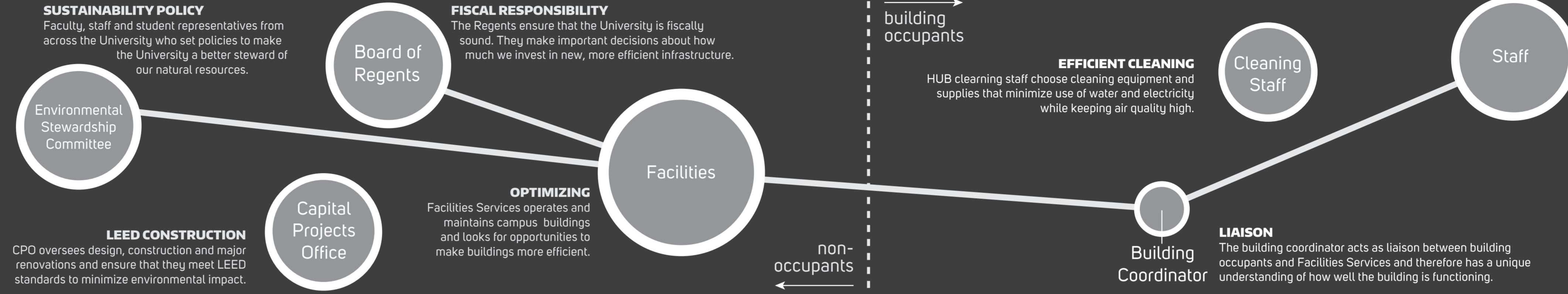
# SUSTAINING THE HUB

Understanding how the HUB consumes to help envision a path toward long-term sustainability

"The union is a student-centered organization that values participatory decision-making. Through volunteerism, its boards, committees, and student employment, the union offers first-hand experience in citizenship and educates students in leadership, social responsibility, and values. In all its processes, the union encourages self-directed activity, giving maximum opportunity for self-realization and for growth in individual social competency and group effectiveness." - *The role of the College Union, 1996*

It is appropriate that a building that educates students in leadership, social responsibility and values be a building that exhibits leadership in responsible stewardship of the environment.

## WHO PLAYS A ROLE IN MAKING THE HUB EFFICIENT?



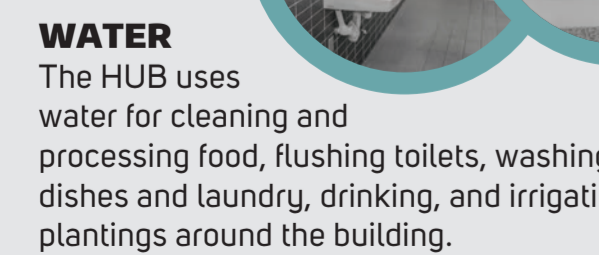
funded through a Green Up partnership between: Seattle City Light & UW Sustainability

## HOW DOES THE HUB CONSUME?

**ELECTRICITY**  
The HUB uses electricity for lights, elevators, office equipment such as computers and copy machines, and kitchen equipment such as refrigerators and microwaves.



**WATER**  
The HUB uses water for cleaning and processing food, flushing toilets, washing dishes and laundry, drinking, and irrigating plantings around the building.



**WASTEWATER**  
All water uses, with the exception of irrigation generate wastewater.

## DESIGNED TO MINIMIZE CONSUMPTION

**INVITING STAIRCASE**  
The prominent, visually appealing staircase reduces electricity consumption by inviting occupants to choose them over the elevator.

**EXTERIOR BLINDS**  
The two large meeting rooms on the third floor have blinds on the outside of the building that stop excess heat from entering the building through those rooms.

**NATURAL LIGHTING AND VENTILATION**  
The large open areas in the center of the HUB minimize the demand for electricity by bringing light from skylights to lower floors and allowing air to flow through the building without fans.

**INSULATED WINDOWS & WALL**  
Windows are double-paned to retain warmth. Walls are insulated to prevent excessive heat gain from the brick exteriors.

**GREEN ROOF**  
A portion of the roof is covered with plants which help to insulate and control rainwater runoff.

**CONTROLLED RAIN RUNOFF**  
The gardens along Stevens Way create a bioswale. They catch rain runoff from the roof and help it seep into the ground rather than flow onto the pavement where it would carry pollution to Lake Washington.

**LIGHTING CONTROLS**  
Many rooms have occupancy sensors which turn off lights when no one is present. In addition, all non-emergency lights are turned off after custodial staff leave the building at night.

**EFFICIENT DISHWASHING**  
For sanitation, dishwashers use very hot (and therefore very energy-intensive) water. Rather than simply flush this hot water away it is recirculated.

**LOWFLOW FIXTURES**  
Efficient toilets, urinals and faucets do their job without wasting water

## CHILLED WATER & ELECTRICITY

The HUB is cooled in 3 ways:

**ELECTRICITY:** The HUB has electric chillers for its refrigerators and freezers.

**CHILLED WATER:** in summer, chilled water from the power plant is used to cool air that is circulated through the Lyceum and Ballrooms.

**BY DESIGN:** the large open spaces are allow warm air to rise and be released through windows and vents during early morning "flushes".

