WEST CAMPUS ENERGY PLANT
GLHN Architects & Engineers, Inc.

WEST CAMPUS SATELLITE ENERGY PLANT EXTERIOR

EDAC Approval 9/25/2018 and Facilities Contracting Committee Approval 9/28/2018
GUIDING PRINCIPLES

• ENERGY EFFICIENCY

• RELIABILITY

• UTILITY COST SAVINGS

• FUTURE CAPACITY

• CONSISTENT WITH CAMPUS PLANS
  • LONG RANGE DEVELOPMENT PLAN
  • HISTORIC PLAN
  • UTILITY MASTER PLAN

• BEST VALUE FOR THE CITIZENS OF WYOMING
CRITICAL ISSUES AT HAND

• MEETING NEEDS OF THE NEAR TERM FUTURE BUILDINGS
  ▪ ENGINEERING EDUCATION AND RESEARCH BUILDING (HOT WATER/CHILLED WATER)
  ▪ SCIENCE INITIATIVE (HOT WATER/CHILLED WATER) - APRIL 2021

• MEET LONG TERM CAMPUS HEATING AND COOLING NEEDS
  ▪ LRDP/UMP ESTIMATE 1-3% GROWTH PER YEAR
  ▪ EXCEEDING CURRENT CAPACITY
  ▪ EFFICIENT EQUIPMENT OPERATION
  ▪ SECURING LONG TERM HEATING FUEL SOURCES (COAL/GAS)

• AGING INFRASTRUCTURE
LOCATION - NORTHEAST OF ANTHROPOLOGY

BRADLEY

LEWIS
WEST FAÇADE FROM 12TH
WEST CAMPUS SATELLITE ENERGY PLANT - IMPACT ON PLANNED CAMPUS GREENSPACE

CONSTRUCTION WILL ELIMINATE 5,000 SQUARE FEET OF GREENSPACE FORESEEN IN LRDP
COST IMPLICATIONS OF EDAC RECOMMENDATION

CLASSICAL DESIGN AND 20% INCREASE IN PLANT CAPACITY

- PREVIOUSLY PROPOSED CONCEPT CONSTR. COST - $23.5M
- CONSTRUCTION COST INCREASE FOR 20% UPSIZE AND CLASSICAL ARCHITECTURE - $5.0M
  INCLUDES:
  - INCREASED SITE DISTRIBUTION - $1.4M
  - INCREASED MECH/ELECT CAPACITY - $900K
  - EXTERIOR WALLS - $760K (FAÇADE AND GLAZING)
  - INTERCONNECTION OF PLANT UTILITIES - $600K
  - PLANT WING INTERCONNECTION AND STONE TANK FAÇADE - $400K
  - INTERCONNECTION OF BASEMENT STRUCTURES - $400K
  - MAJOR DESIGN CHANGES (SITE LOCATION AND BUILDING TYPE) WILL REQUIRE ADDITIONAL DESIGN PERIOD SCHEDULE OF UP TO 5 MONTHS AND INCREASED DESIGN FEES OF UP TO $500K
UW ACTION ITEMS/SCHEDULE

WHAT IS NEEDED TO MOVE FORWARD?

- FINAL CONCEPT DESIGN
- FINAL LOCATION SELECTION
- FINAL SCOPE SELECTION
- PROJECT FUNDING

[Diagram showing project timeline with critical start dates and milestones for 2018 to 2021]
SITE AERIALS - UNIVERSITY OF WYOMING WEST CAMPUS
END OF PRESENTATION