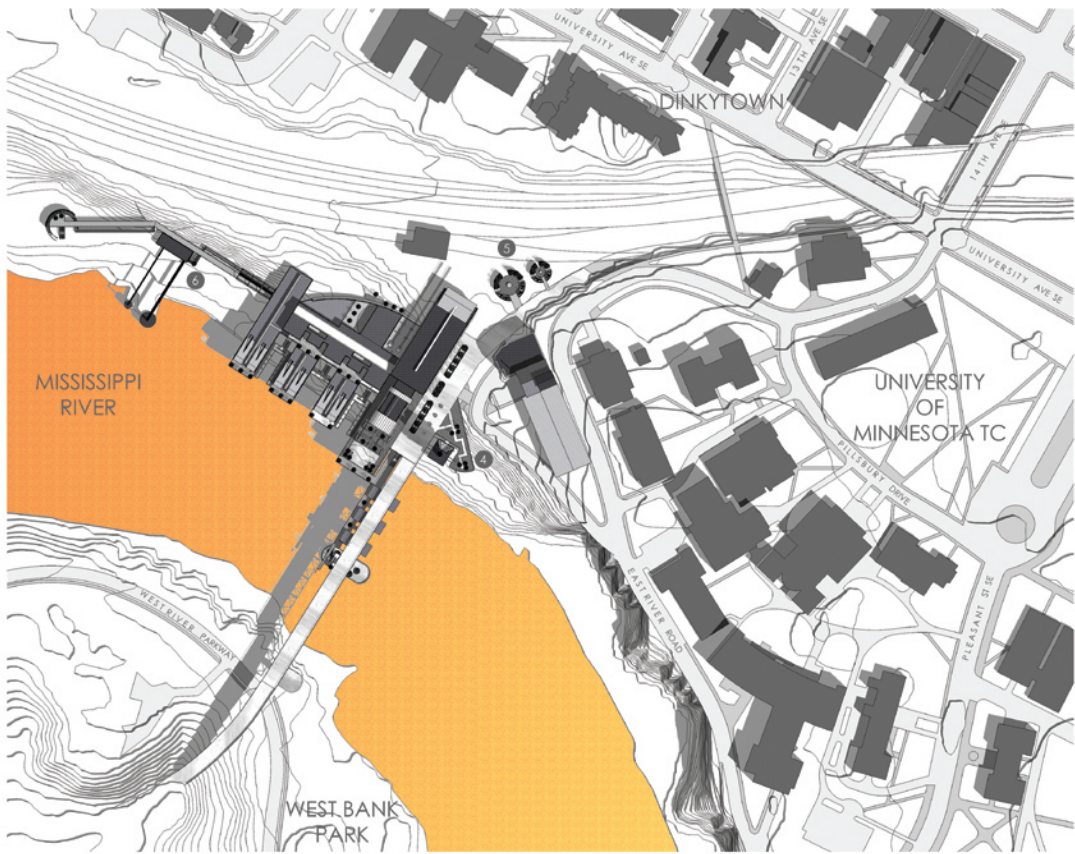


The exploration of power and energy comes from the minds drive to fulfill functional needs. This is ironic in the sense that the mind itself is powered by some incoherent energy that cannot be defined. Is all energy then created from the mind and its desire to fulfill functional needs? No, it is the energy within the mind that allows us to design energy and harness its power. The idea then is to create a sense of energy that harnesses and embraces the minds drive in fulfilling functional needs of foreseeable elements in power generation and industrial technology.

"We have only to speak of an object to think that we are being objective. But, because we chose it in the first place, the object reveals more about us than we do about it. What we consider to be our fundamental ideas concerning the world are often indications of the immaturity of our minds." - G. Bachelard

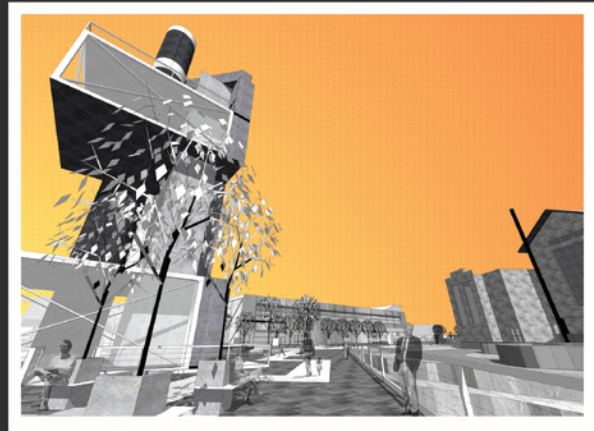
0 0 1

# ENERGY



SITE PLAN SCALE 1" = 100'

MINNEAPOLIS, MINNESOTA



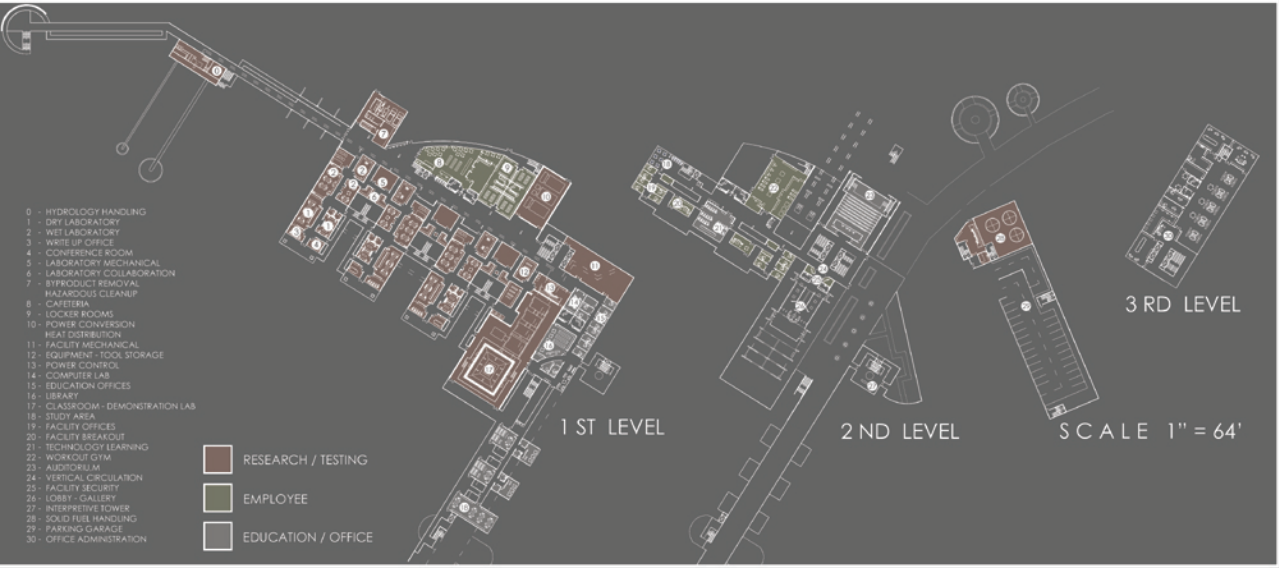
RIVERSCAPE PLAZA

4



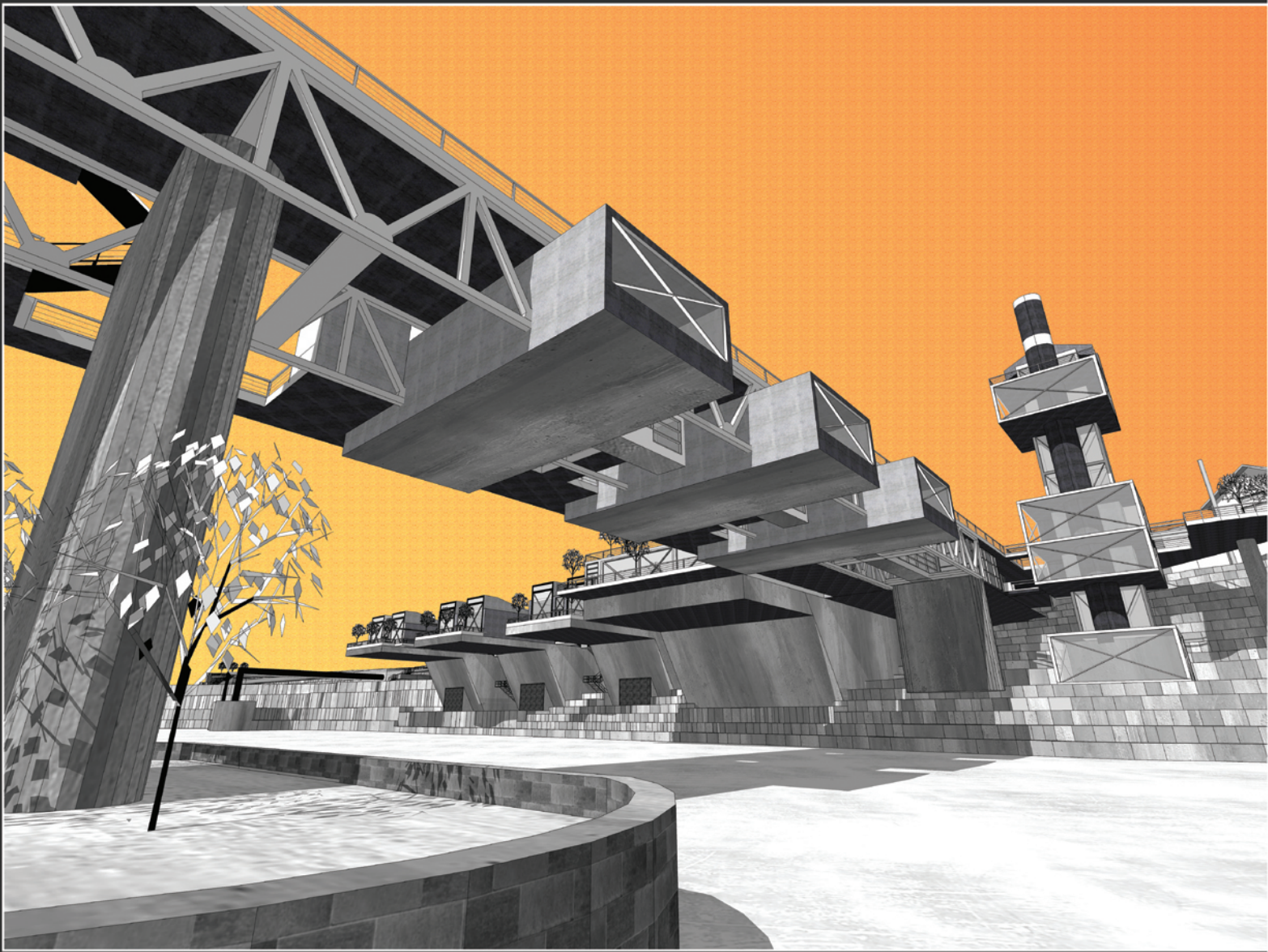
HISTORIC RIVERFRONT MEMORIAL

5



LANDBRIDGE CONNECTION

6



The University of Minnesota is currently among the top four leaders in the nation for industrial and mechanical engineering research. Their demand for innovative testing and research facilities grows as new discoveries are further being explored. The university is determined to utilize its ability to perform complex research, ultimately becoming one of the most advanced energy research elements in the world. The Facility for Industrial Technology and Power Generation collaborated with the industrial and mechanical engineering programs will provide the essential means necessary to accomplish this goal. The facility demonstrates adequate research and testing laboratories, collaborated classrooms, and interpretive environments encouraging interaction among private and public users.

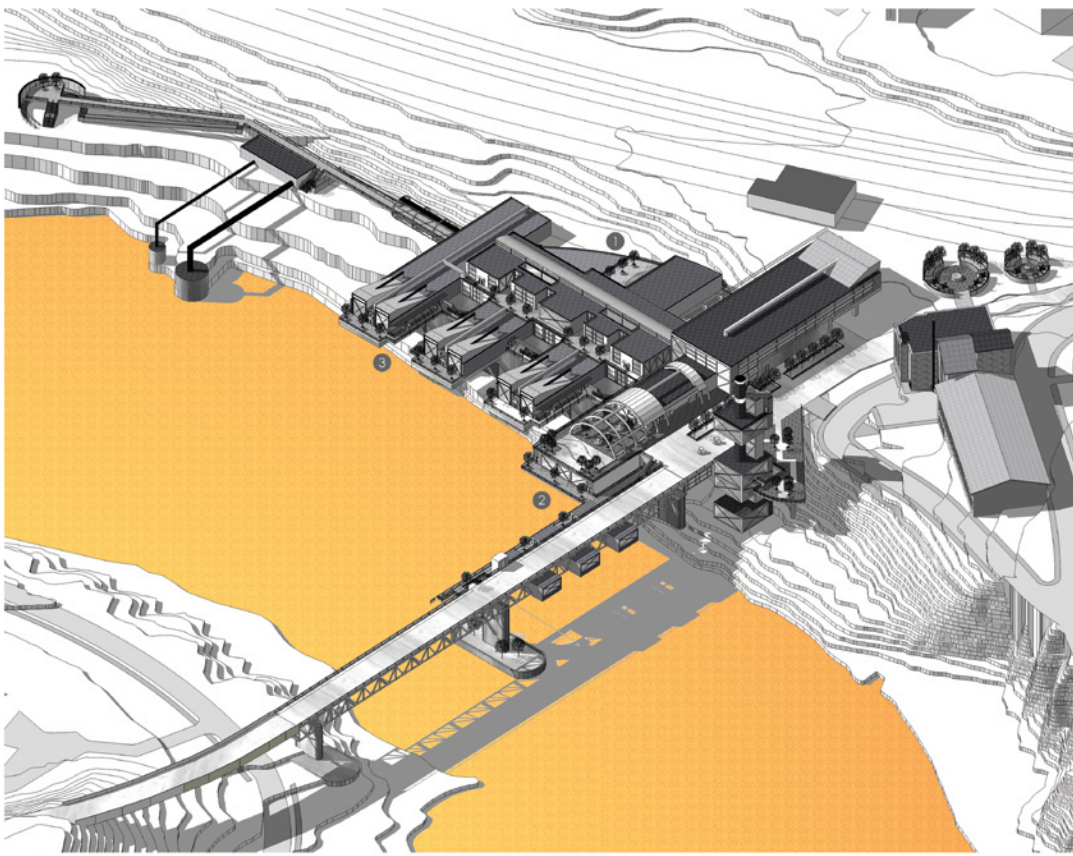
This development presents the university 55 million dollars in funding from the U.S. Department of Energy including a federal grant that will fund research into developing and testing new fuel sources and make coal burning more efficient and clean.

0 0 2

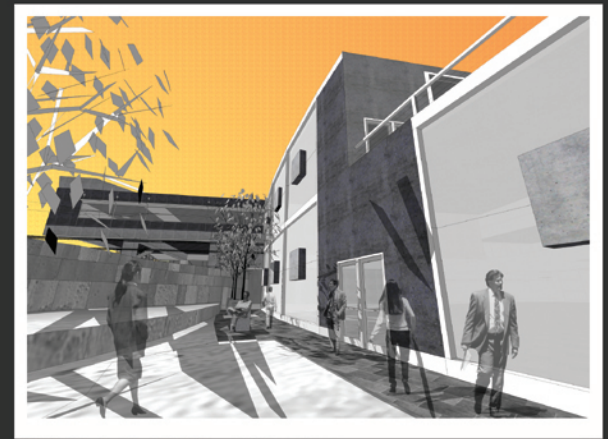
# AFFECT

## FACILITY FOR INDUSTRIAL TECHNOLOGY AND POWER GENERATION

DESIGN THESIS 05  
ANDREW KOEDAM

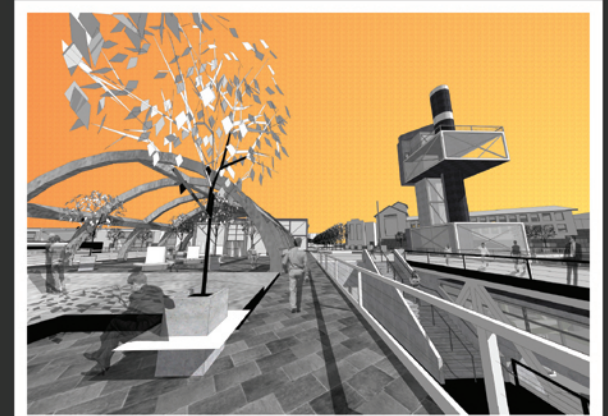


AERIAL VIEW



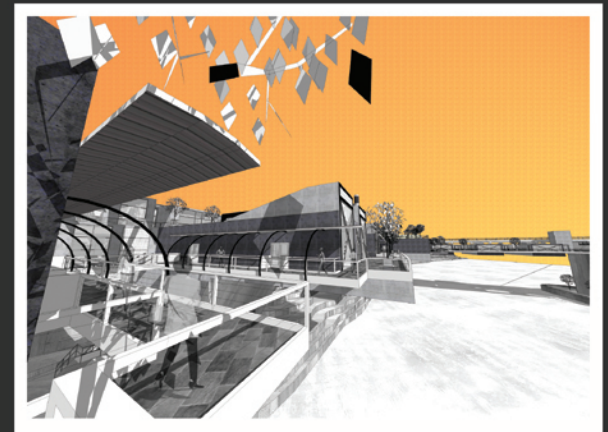
EMPLOYEE ENTRANCE

1



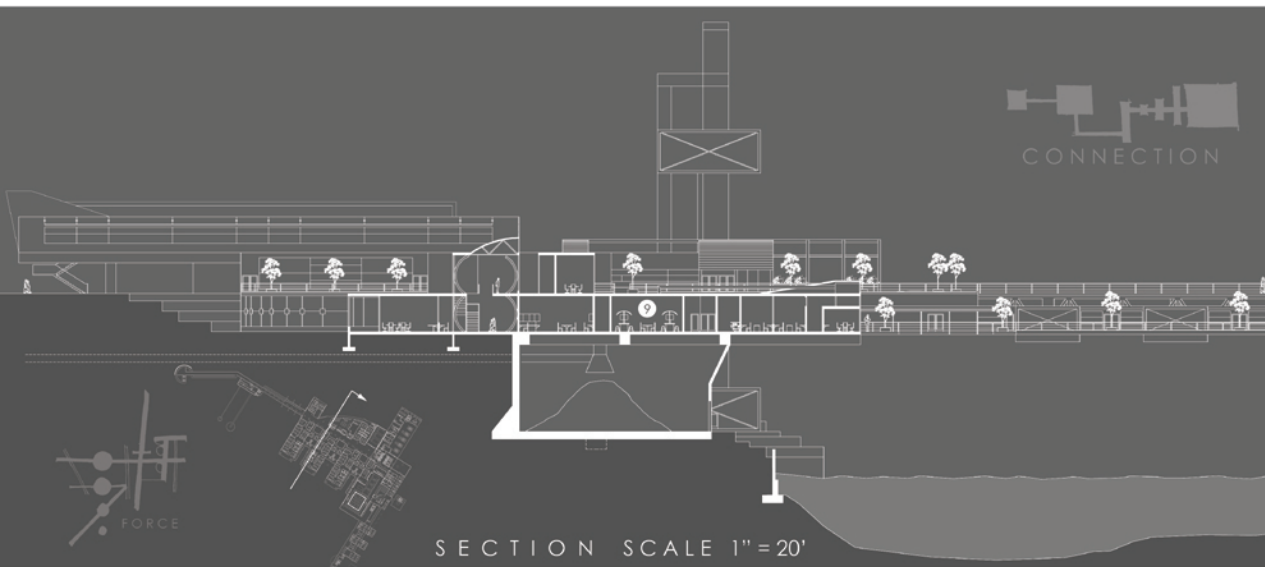
FACILITY PLAZA / ENTRANCE

2

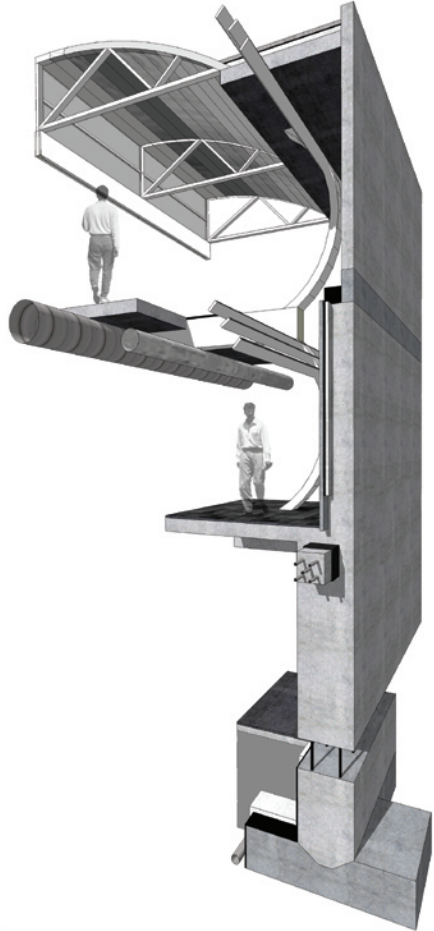
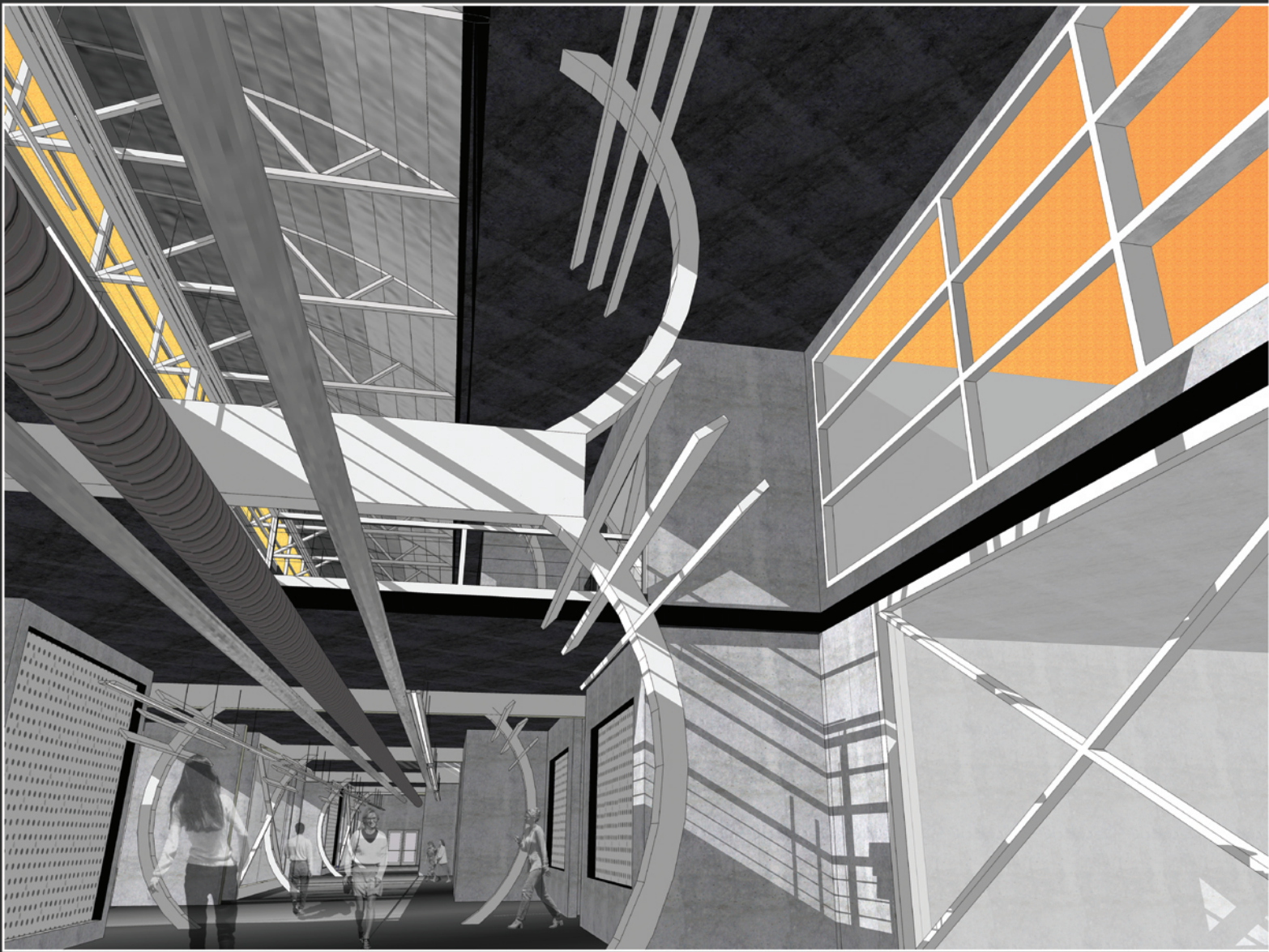


RESEARCH LABORATORIES

3



SECTION SCALE 1" = 20'



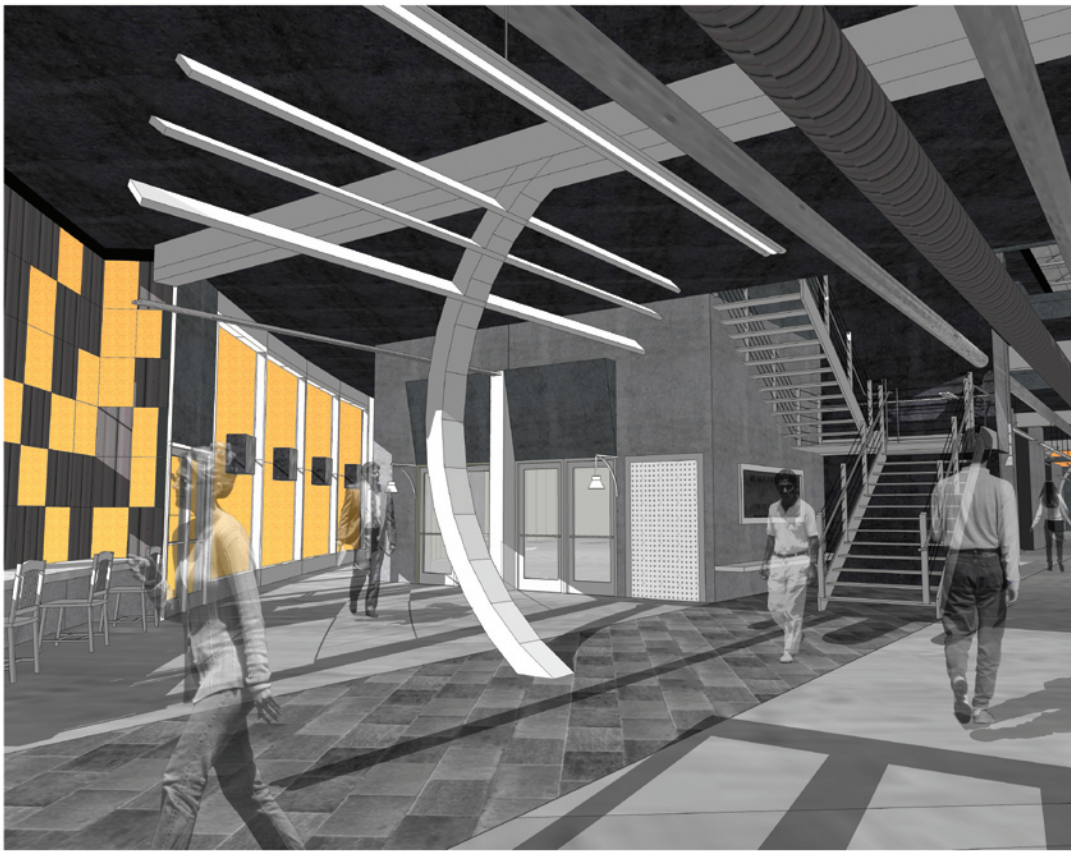
The importance of research/testing performed at the facility is invaluable to spatial environments, natural environments, and the overall quality of life. The facility's research in fuel technology allows the university to burn a variety of fuels including: coal, natural gas, oil, and renewable resources: wood chips, barley husks. The steam byproduct is used to assist in heating purposes or converted to electricity through cogeneration.

The information gained justifies elements of research/testing studies, economic value, and public health, as new fuels are developed and research discovers more cost effective and environmentally sound energy sources. The facility focuses on creating the positive connections, relationships, and interpretive ideals of public interaction on a global scale.

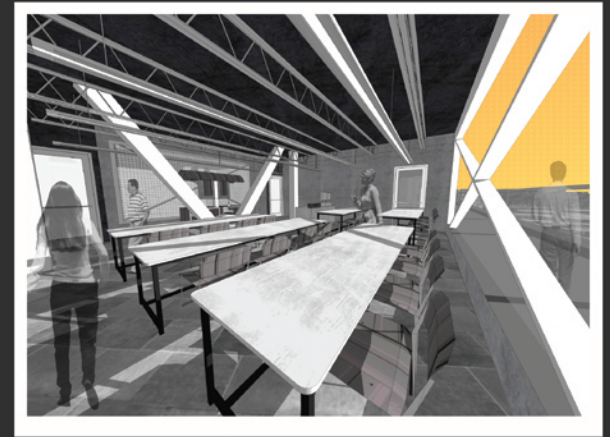
"The Mississippi River is a wonderful book that was not meant to be read once and thrown aside, for it has a new story to tell every day."  
- Mark Twain

0 0 3

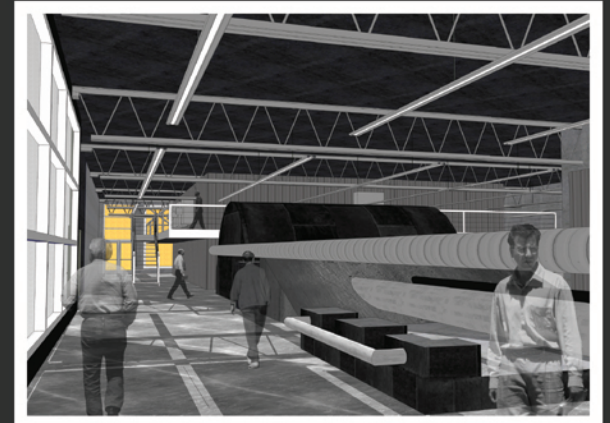
# MATRIX



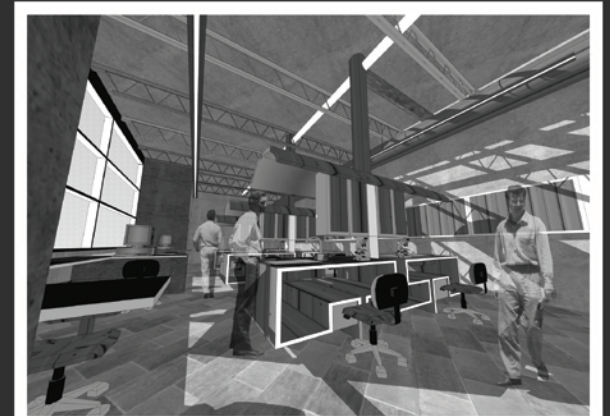
LOWER LEVEL CORRIDOR



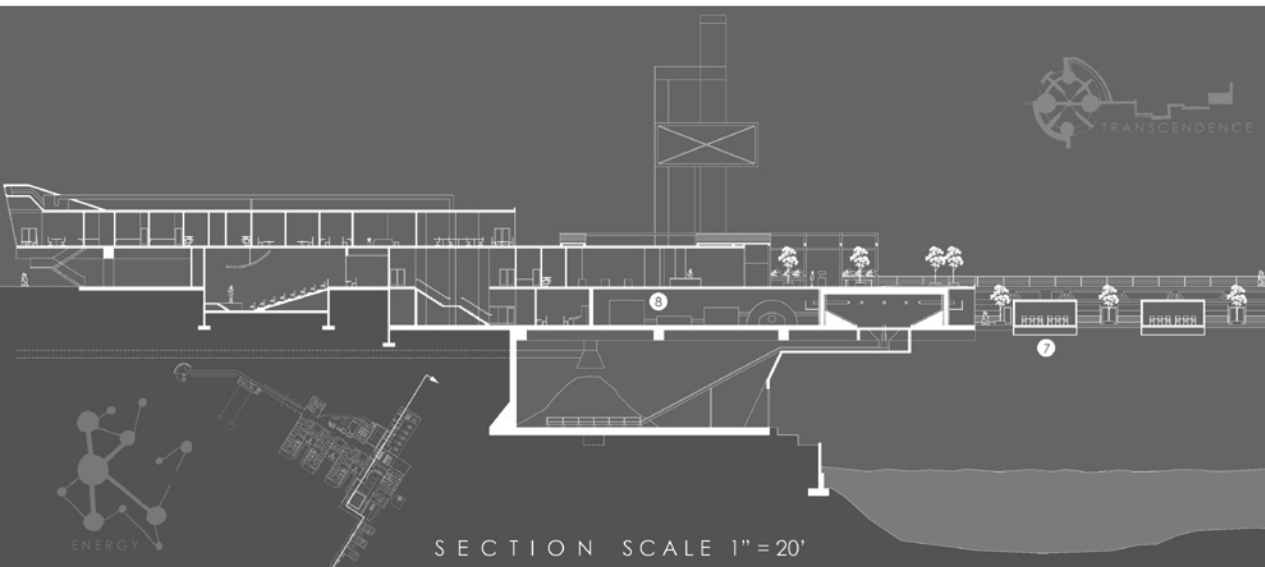
COLLABORATIVE CLASSROOM 7



POWER GENERATION LABORATORY 8



RESEARCH / TESTING LABORATORY 9



SECTION SCALE 1" = 20'