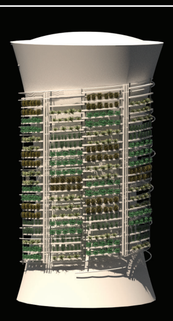
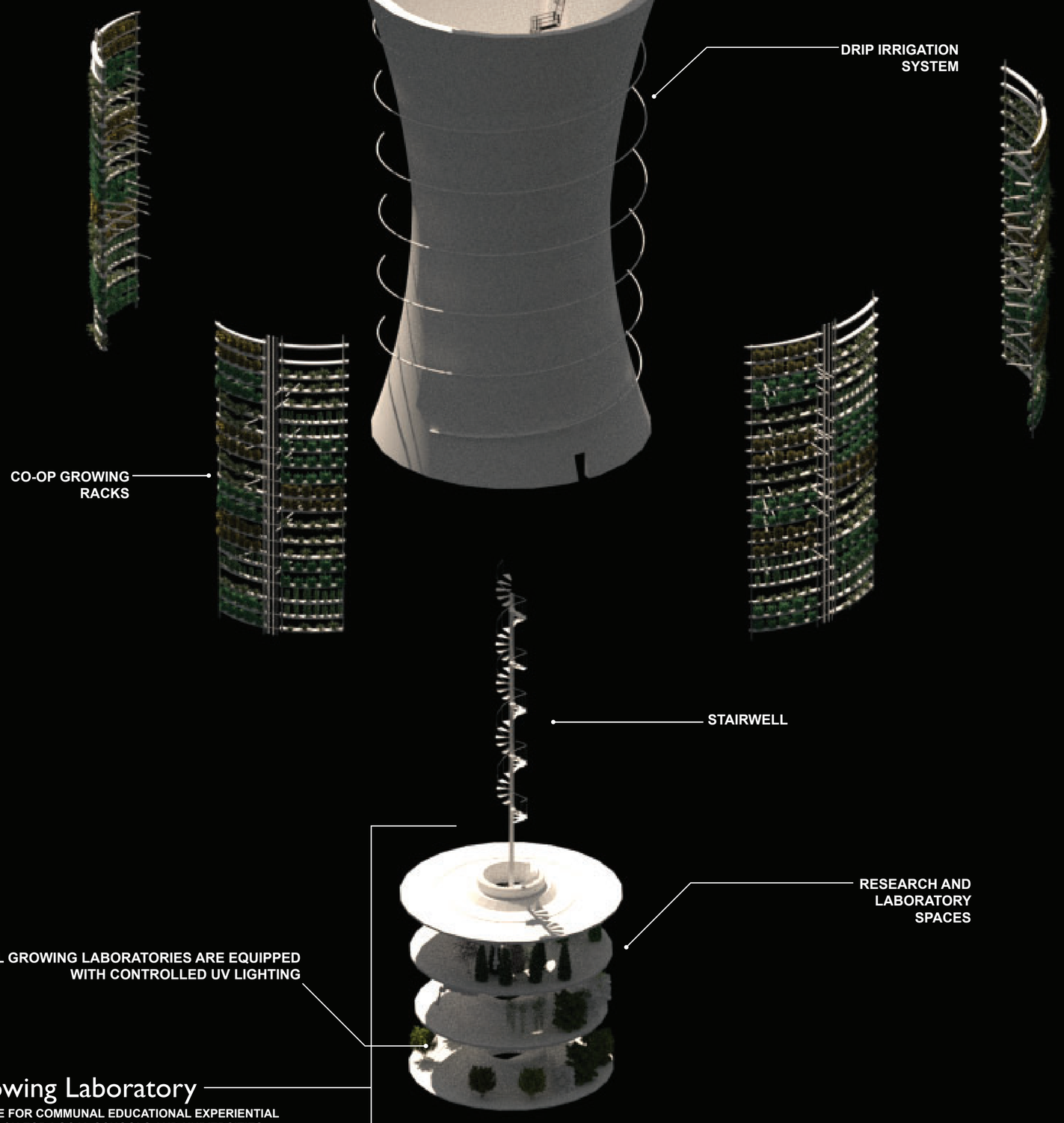
SYSTEM PROCESSES

Systemically Operations of Co-OP

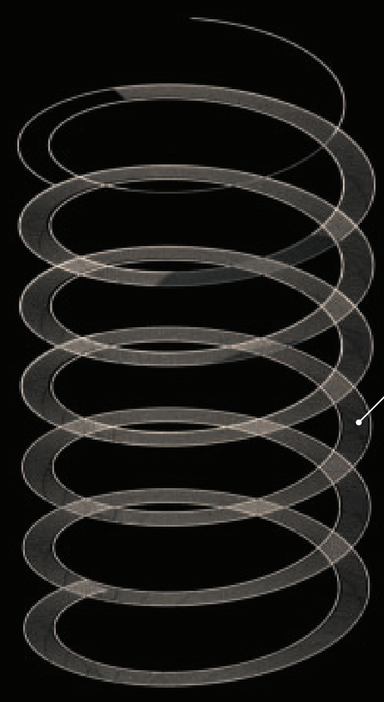


VICTORICA
WATER TOWER



Growing Laboratory

A SPACE FOR COMMUNAL EDUCATIONAL EXPERIENTIAL RESEARCH FOR LOCAL SCHOOLS AND UNIVERSITIES THAT WOULD YIELD FRESH PRODUCE AND MEDICINAL CARE. THE LAB SPACE WOULD BE IN PARTNERSHIP WITH AGUAS ANDINAS TO EXPLORE TECHNIQUES IN UTILIZING LESS WATER FOR AGRICULTURAL AND HORTICULTURAL USAGE.

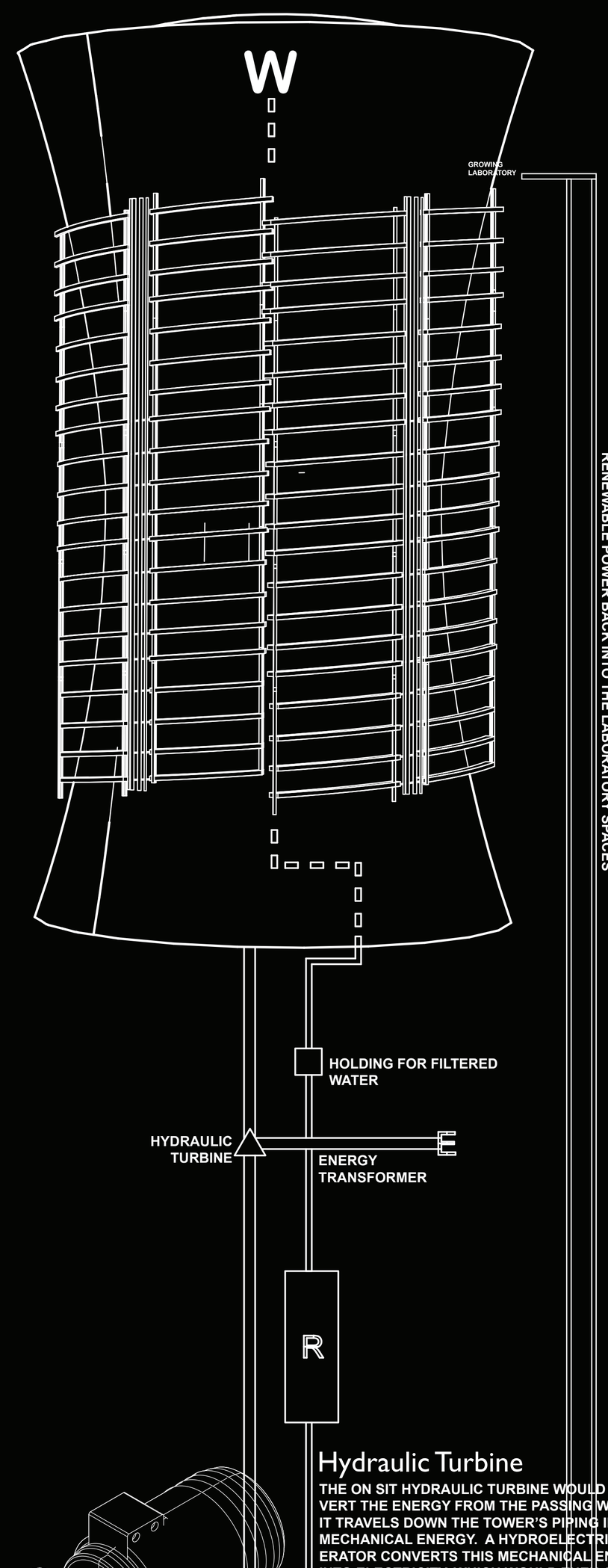


Energy Transformer

FOR THE SAFETY AND PROTECTION OF THE COMMUNITY ALL TRANSFORMER SYSTEMS WOULD BE LOCATED AWAY FROM REGIONS OF HIGH SOCIAL PROGRAMMING AND BE EQUIPPED WITH AUTO SHUT-OFF SENSORS WOULD THE FENCING BARRIER IS

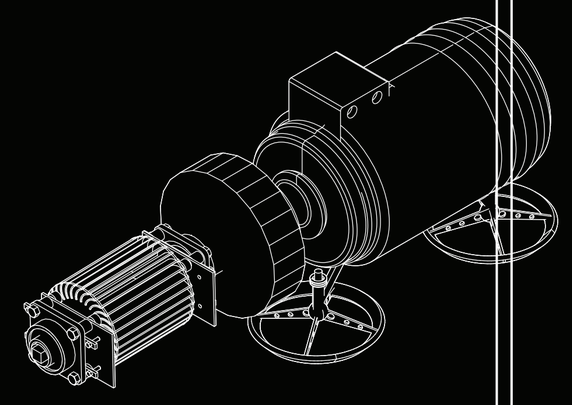
RENEWABLE ENGERY TO GRID

System Break-Down

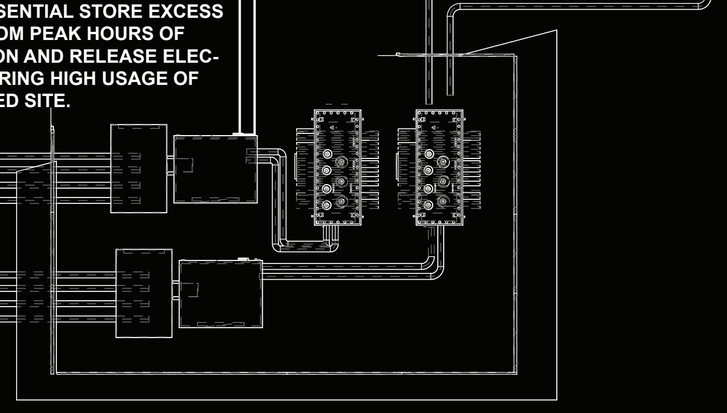


Hydraulic Turbine

THE ON SIT HYDRAULIC TURBINE WOULD CONVERT THE ENERGY FROM THE PASSING WATER AS IT TRAVELS DOWN THE TOWER'S PIPING INTO MECHANICAL ENERGY. A HYDROELECTRIC GENERATOR CONVERTS THIS MECHANICAL ENERGY INTO ELECTRICITY, WHICH WOULD THEN ASSIST IN POWERING THE RECREATIONAL AREAS WITHIN THE GROUNDS OF THE DESIRED SITE. ALL REMAINING POWER WILL BE PUT ON MARKET AT SUBSIDIZED PRICE.



AT MEDIUM WATER FLOWS MUCH LIKE THE "RUN-OF-RIVER", SMALL SCALED GENERATORS SUPPLIED WITH A CONSTANT STREAM OF WATER FLOW CAN PRODUCE UP TO 10,000 KWH OUTPUT POWER.

On-site Battery Bank

THE ONSITE BATTERY BANK WOULD ESSENTIAL STORE EXCESS POWER FROM PEAK HOURS OF PRODUCTION AND RELEASE ELECTRICITY DURING HIGH USAGE OF THE DESIRED SITE.