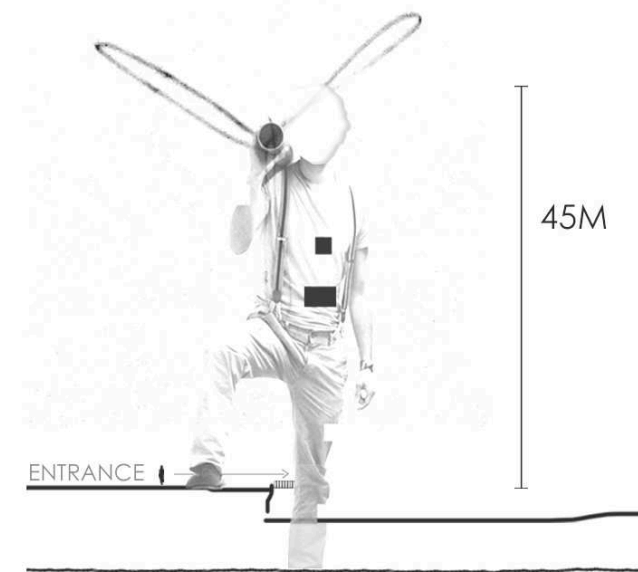
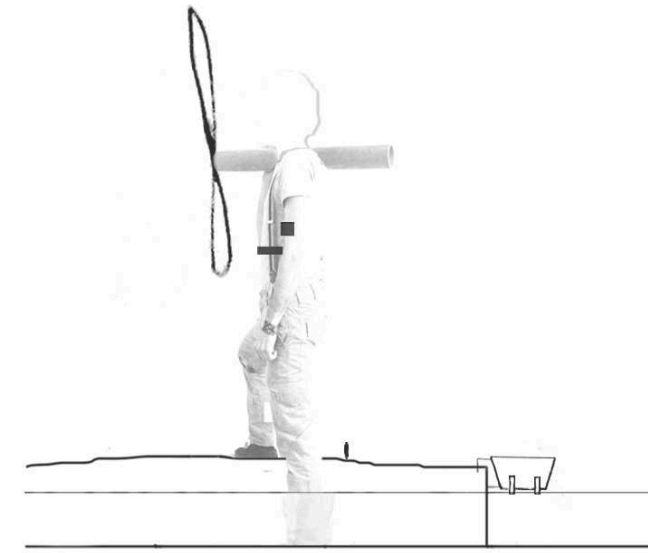


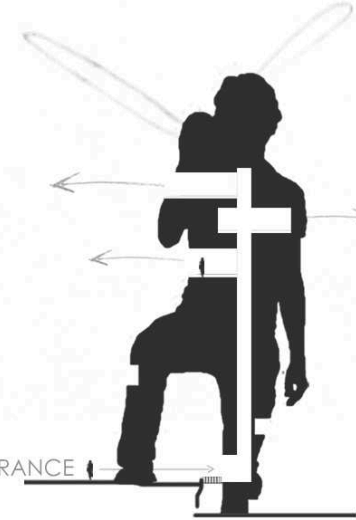
CONSTRUCTION



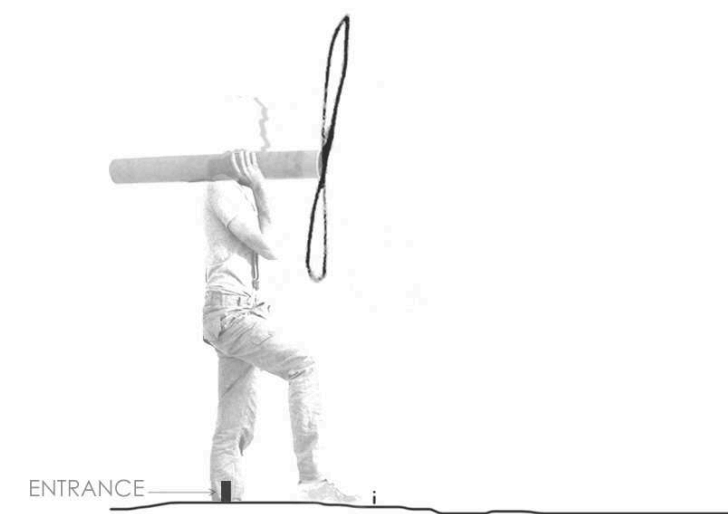
NORTH EAST ELEVATION
WINDMILL OF COPENHAGEN IS 45 METERS HIGH FROM THE GROUND. THE BLADE DIAMETER IS 45 METERS. THE ENTRANCE INSIDE THE STATUE IS VISIBLE IN THIS ELEVATION.



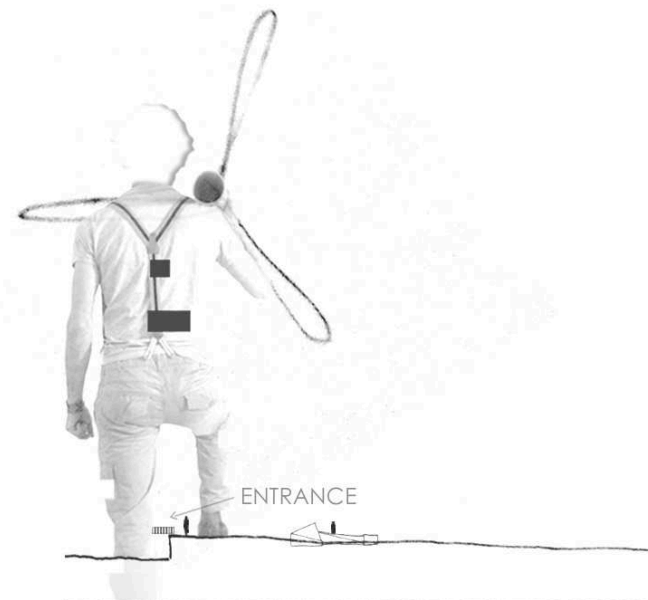
NORTH WEST ELEVATION
WATER TAXI REMAINS IN THE GOOD LOCATION.



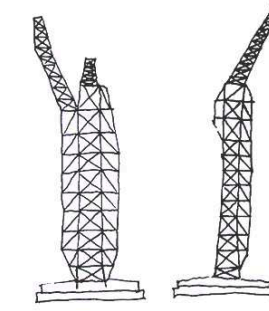
SECTION
FROM INSIDE THE STATUE THE VISITOR IS ABLE TO ENJOY THE BEAUTIFUL VIEW OVER COPENHAGEN WHILE ENJOYING THE FASCINATING MOVEMENT OF THE BLADES ROTATING OUTSIDE THE STATUE.



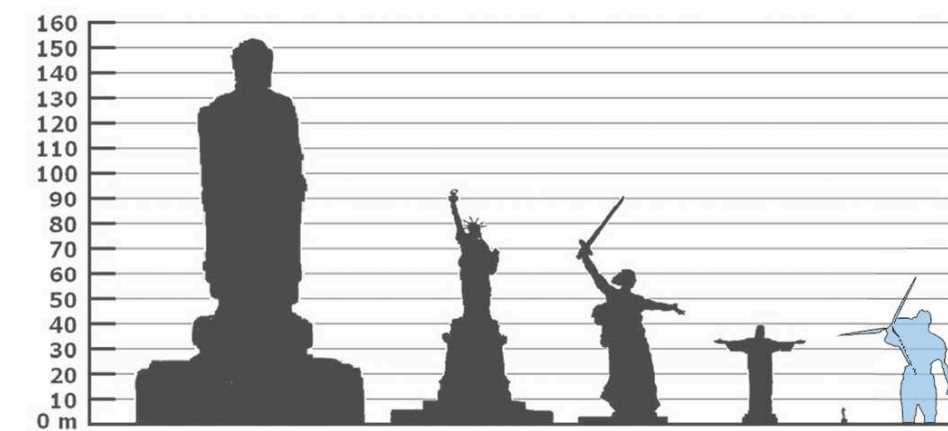
SOUTH EAST ELEVATION
HERE YOU CAN SEE THE ENTRANCE INSIDE THE STRUCTURE. YOU CAN GO UP BY SMALL ELEVATOR OR THE STAIRCASE.



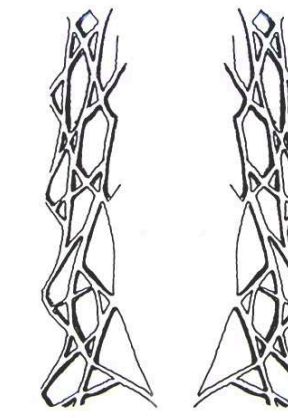
SOUTH WEST ELEVATION
HERE YOU CAN SEE THE SMALL BRIDGE GOING INSIDE THE STRUCTURE. FROM INSIDE THE WINDMILL YOU HAVE WONDERFUL LOOKOUT PLACES OVER THE COPENHAGEN.



TRADITIONAL WAY
A VISIONAIRE BUILDER GUSTAVE EIFFEL ABANDONED THE OLD BUILDING TRADITIONS AND DECIDED TO BUILD A TRUSS TOWER INSTEAD. THIS BRAVE NEW DESIGN MADE THE STATUE OF LIBERTY ONE OF THE EARLIEST EXAMPLES OF CURTAIN WALL CONSTRUCTION. WE TOO NEED TO BE BRAVE AND COME UP WITH NEW INNOVATIONS AND SOLUTIONS.



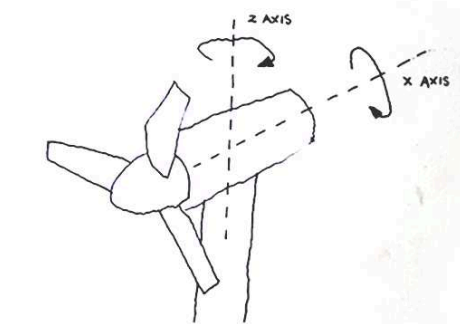
COMPARISON OF HEIGHTS



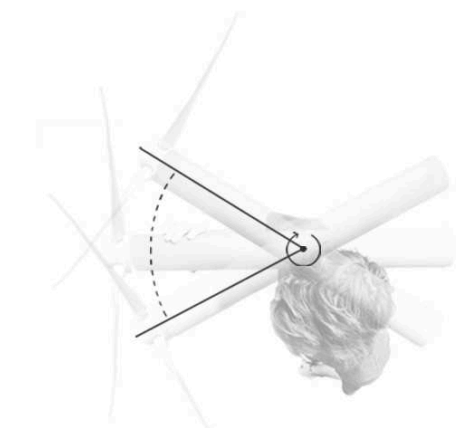
OPTIMIZING
INSTEAD OF THE MORE TRADITIONAL STEEL FRAME THE STRUCTURE OF THE WINDMILL OF COPENHAGEN IS BEING OPTIMIZED WITH ALGORITHMS EMULATING THE STRUCTURE AND THE GROWTH OF THE BIOLOGICAL FORMS. THIS OPTIMIZING ENABLES THE MAXIMUM EFFICIENCY IN MATERIAL USE AND LOAD BEARING.



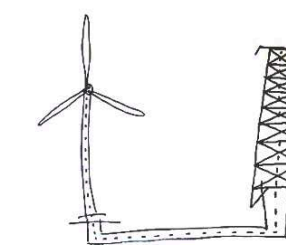
MATERIAL
THE STRUCTURE AND THE SURFACE MATERIAL OF THE WINDMILL OF COPENHAGEN IS EASY TO PREFABRICATE AND BUILD. THE MATERIAL USED ON THE SURFACE IS A THIN LAYER OF WHITE CONCRETE PROVIDING THE BEST DURABILITY IN ALL WEATHER CONDITIONS IN COPENHAGEN. TOGETHER WITH THE STRONG INNER STEEL FRAME, ALL THE PARTS ARE BUILT OF NON-CORROSIVE MATERIALS.



YAW SYSTEM
THE ROTOR NEEDS TO BE ABLE TO ORIENTATE TOWARDS THE WIND IN THE CHANGING WEATHER CIRCUMSTANCES. WINDMILL OF COPENHAGEN IS EQUIPPED WITH ACTIVE YAW SYSTEM ENABLING THE ROTATION OF THE NACELLE OF THE WIND TURBINE AGAINST THE STATIONARY TOWER BASED ON AUTOMATIC SIGNALS FROM THE WIND DIRECTION SENSORS.



ROTATION
THE STATIONARY TOWER GOES THROUGH THE SHOULDER TO THE PALM OF THE STATUE ENABLING THE ROTATION KEEPING THE STATUE STATIONARY. FROM THE GROUND THIS SMALL ROTATIONAL CHANGE IS HARD TO NOTICE AND IT REMAINS AS A TECHNICAL FACT.



ELECTRICITY
THE STATUE (850 kWh TURBINE) PRODUCES APPROXIMATELY 7400 MW A YEAR. WITH MAXIMUM CAPACITY IT PRODUCES ELECTRICITY TO 1128 DANE A YEAR.

DETAILS

ONE CAN STILL HEAR THE PROPEL OF THE OLD SHIP YARD MAKING ITS DAILY DANCE ONE THE OLD SHIP YARD OF REF SHALEØEN. A VIEW FROM INSIDE OF THE WINDMILL OF COPENHAGEN.

