In 2050 the characteristics of the Port of Amsterdam will be totally changed. The Coenhaven, Cornelis Douwes, Melkweg, and Achterzijde will undergo enormous development. They want to close one of the two powerplants and in 2050 the other one will be closed as well. But how can we create our energy then? The demand for energy will increase and at the same time Amsterdam is closing their polluting powerplants. New techniques show other ways of creating energy, like nuclear fusion. Nuclear fusion is a way of creating energy in the same way as the sun. With intense heat atoms will merge, and in this process the atoms will create a lot of energy. This new type of creating energy is safe, does not contribute to the greenhouse gases, and the fuel is cheap and virtually limitless. But how to design it? To answer this question, one must remember the safety regulations and at the same time be creative.

Normally a powerplant is locked behind a fence. But there is a new movement, namely a more public powerplant. In 2050 this type will be a normal phenomenon. My powerplant will stand in a park and it will attract people with the traditional function. The reference study shows that modern powerplants often share the same characteristics. First of all, they have windows or public spaces to show the process. Secondly, the powerplant itself or the chimney can be used as a viewpoint. Thirdly, even during the night the powerplant attracts people by lighting sculptures and special effects. Lastly, the chimney is decorated and is an aesthetic orientation point. Conceptual powerplants are very compact and the building skin is used for public functions. In the building, just like a heart, the machine produces energy. This process is visible and the plinths are public. There is also a route through the building that explains the process of processing energy. All these characteristics are needed for a powerplant that fits the need of 2050.
TRIPLE GLAZED WINDOWS

VERTICAL WOODEN FINISH

POLYCARBONATE IN LINE WITH THE COLUMN

WOODEN BALUSTRADE

ISOLATED WOODEN FRAME PANELS WITH STONE FINISH

INTEGRATED SHUTTER

DOUBLE GLAZED WINDOWS

CONCRETE BASEMENT CONSTRUCTION

VERTICAL WOODEN FINISH

POLYCARBONATE IN LINE WITH THE COLUMN

WOODEN BALUSTRADE

ISOLATED WOODEN FRAME PANELS WITH STONE FINISH

INTEGRATED SHUTTER

DOUBLE GLAZED WINDOWS

CONCRETE BASEMENT CONSTRUCTION
result

roof structure

wooden columns

wooden beams

steel base

tiles

backyard beauty

complex projects (AMS mid-city) dennis merkens