ENERGY ACADEMY
| POWER TO THE PEOPLE |

TOM FULLER

WEST FACADE
SOUTH FACADE
EAST FACADE
NORTH FACADE
ENERGY ACADEMY
| POWER TO THE PEOPLE |

TOM HULSMAN

CURTAIN WALL
SANDWICHPANEL
FILLED WITH PIR INSULATION 50MM

CONCRETE PREFAB PANELS
U-PROFILE
CASTELATED IPE500

01 ROOF | 1:10
02 CANTILEVER HORIZONTAL | 1:10
03 CANTILEVER CONNECTION | 1:10
04 ROOF ATRIUM | 1:10
02 CANTILEVER EDGE | 1:10

FIRE RESISTANT LAYER
HE300B
SCREED 50MM
FLOOR HEATING
REINFORCEMENT BARS
COMPOSITE DECK FLOOR
CASTELATED IPE 500
TUBING SECTION TO SUP PORT COMPOSITE DECK
INSULATION MINERAL WOOL 110MM
STAINLESS STEEL CEILING
WOODEN BEAMS 235X75MM

1. STEEL CONSTRUCTION
2. COMPOSITE DECK
3. WINDOW FRAME
4. FRAME CONCRETE PANELS
5. INSULATION
6. CONCRETE PANELS
7. PREFAB LOUVRE PANEL

DETAILED
01 ROOF | 1:10
04 ROOF ATRIUM | 1:10
02 CANTILEVER EDGE | 1:10
02 CANTILEVER HORIZONTAL | 1:10
03 CANTILEVER CONNECTION | 1:10
BUILD UP

02 CANTILEVER HORIZONTAL | 1:10
02 CANTILEVER EDGE | 1:10
03 CANTILEVER CONNECTION | 1:10

EXTSIVE VEGETATION
GROWING MEDIUM
GRANULAR MINERAL
DRAINAGE LAYER
ROOT PROTECTION LAYER
WATERPROOFING LAYER
ROOF INSULATION
SLOPED 16MM/M
PREFAB LOUVRES
PANELS ALUMINIUM
CONNECTING ELEMENT
CURTAIN WALL
STEEL CONNECTOR PLATE
SUSPENDED CEILING
CURTAIN WALL CW50 SC SYSTEM

6.6
13.2
26.4
52.8
CP
ENERGY ACADEMY
| POWER TO THE PEOPLE |

TOM HULSMAN

AXONOMETRIC
The conversion plant works as a distribution centre for energy. It can store energy for long periods of time as NH₃ and for shorter amounts of time in its H₂ producing batteries (battolysers). With the transition from energy to NH₃ and back a lot of excess heat is produced, which is used both for the rest of the building as heating and for district heating. The necessary cooling load is achieved through evaporation of ammonia, which is necessary for the energy process.