PROBLEM STATEMENT:

There is not enough affordable dwellings and offices for business starters in the inner city of Amsterdam.
INDISTINCT BORDER - Rentable living room for single business starters 7-3

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The workshop space could be used as office or workshop for the starters. After years, when the family expands, the workshop space could be changed into an extra bedroom for the child.

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**URBAN SUSTAINABLE SMART GRID - ELECTRICITY EXCHANGE**

**URBAN SUSTAINABLE SMART GRID - HEAT EXCHANGE**

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**So the resource of grey water is from cleaning trucks, INIT building, dwellings and rainwater. In our urban design, we design a continuous strip with greenery and public space according to the plots' size. The filter system for grey water is contained in these greenery areas and at the same time the grey water could be used to irrigate these plants. Furthermore, the grey water system could be pumped to the dwelling again to flush the toilet and use as other purposes.**

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**Energy Sufficient Calculation - Row House**

**Energy Sufficient Calculation - Tower**

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**TRIPLE SOLAR ROOF ELEMENT WITH PV PANEL ABOVE**

**TRANSPARENT PV GLASS**

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**CLIMATE DESIGN DIAGRAM**

**INDISTINCT BORDER - Rentable living room for single business starters 7-4**

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Mechanical ventilation -
Fresh air

Natural ventilation -
Fresh air

Summer ventilation -
Office mode

Summer ventilation -
Dwelling mode

Winter ventilation -
Office mode

Winter ventilation -
Dwelling mode

Mechanical ventilation with heat recovery -
Fresh air

The foundation of the tower is heavier than the row houses, so there will be a separation in the foundation and basement between them.
INDISTINCT BORDER- Rentable living room for single business starters 7-6

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INDISTINCT BORDER- Rentable living room for single business starters 7-7

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IMAGE FROM THE TOWER LOBBY

IMAGE FROM THE TOWER GALLERY- SMALL LIVING ROOM

IMAGE FROM THE TOWER GALLERY- BIG LIVING ROOM

IMAGE FROM THE TOWER GALLERY- BIG LIVING ROOM

IMAGE FROM THE TOWER GALLERY- SMALL LIVING ROOM