The task strives us at least try to look at our self's some fundamental questions about how we live and build and design within the built environment and therefore also how we ought to live together. The title inhabitable facade is at first hand understood as merely individual extension, but what happens in the world with global warming and our lack of connection to nature, does not become a wall, but tries to be another individual facade but rather a collective, that does not need another individual facade but rather a collection, that becomes more optimal human environment through a permeable Clusters strives to bridge environmental conditions with the urban and social environment through a permeable system of apartment clusters. Ranging from the private sphere at individual apartments to the open public sphere of the outside world, the project aims to connect both elements through a semi-private energized green facade which provides more optimal human environmental conditions whilst connecting inhabitants with one another in a community. The extended facade tubes carry warmth away from the apartments during the winter through a continuous negative pressure system that continuously forces re-circulated air through the facade or as a summer garden shaded by the facade and thereby cooled by the tubes. 

ARCHITECTURAL TRANSLATION

THE KEY QUESTION HAS BEEN HOW AN ENVIRONMENTAL APPROACH WOULD INFLUENCE THE URBAN AND SOCIAL CONSIDERATIONS.

VOLUMETRIC DISTRIBUTION

COLLECTIVE INHABITABLE SKIN

TUBE SYSTEM

INTERSECTIONS

THE MASTERPLAN:

A landscape

ENVIROMENTAL & URBAN CONSIDERATIONS

VOLUMETRIC DISTRIBUTION

COLLECTIVE INHABITABLE SKIN

TUBE SYSTEM

INTERSECTIONS

THE MASTERPLAN:

1: Terraced facade

The tubes function as a sort of lungs that can retract and blow up, according to weather conditions and changing seasons. Due to stack effect, the tubes pull in fresh air from the bottom parts, which because of retracting lungs is let through the units and their buffer zones. In this case the tubes are creating a slightly different climate zones due to heat and wind, due to the dragging out of the "used" air from the units. 

2: APT. BUFFER

The tubes or as a summer garden shaded by the facade and thereby cooled by the tubes. 

3: TUBE ELASTIC

By offsetting everyone's individual facade the facade becomes collective, utilising the extended facade space as a communal semi public space 3 functions as a winter garden, heated by the tubes and as a summer garden shaded by the facade and thereby cooled by the tubes. 

4: APARTMENT EXTENSION TUBES

The organisation of the clusters of apartments follows sunlight and wind analysis studies to optimise the energy efficiency of the apartment clusters.