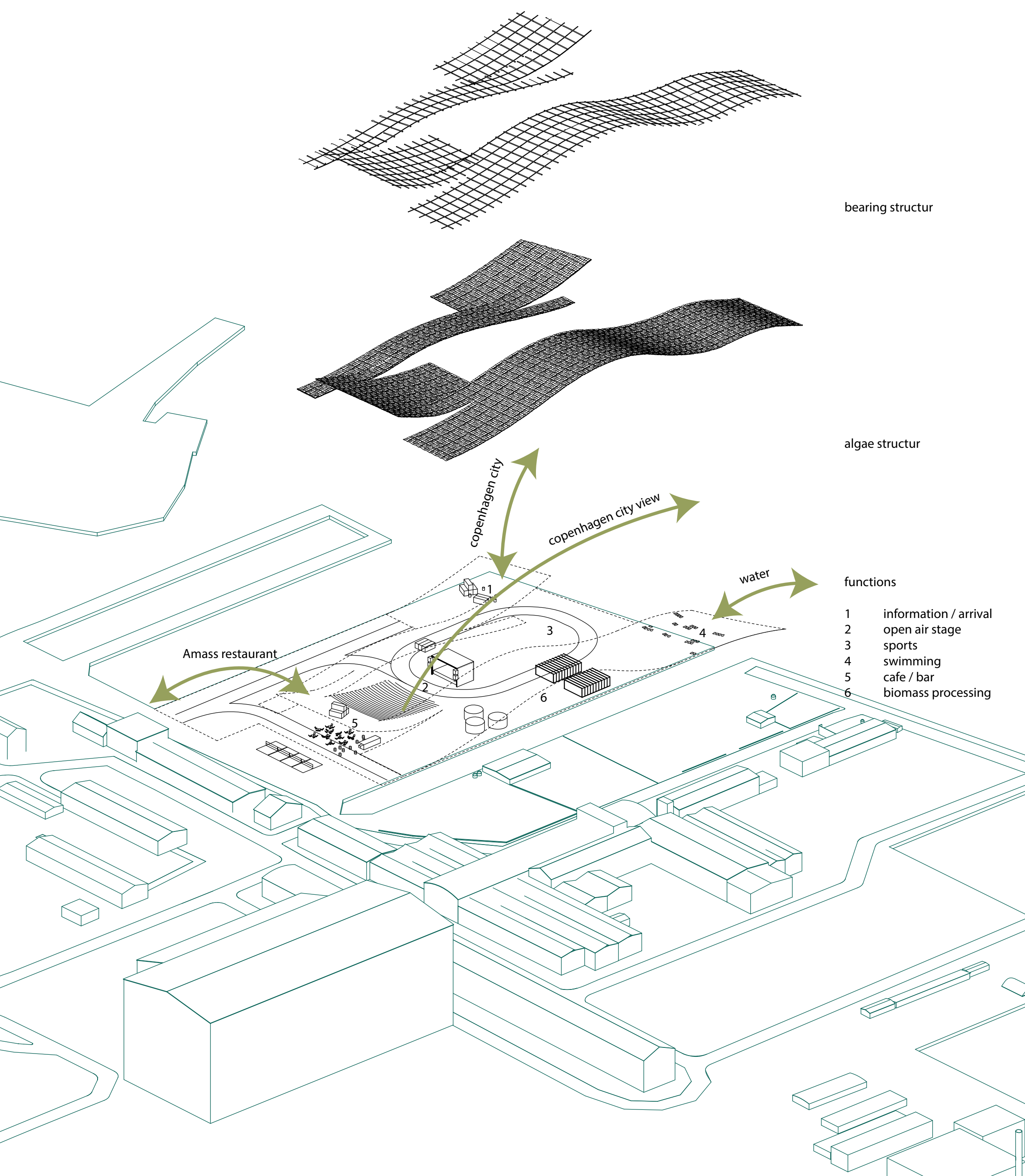
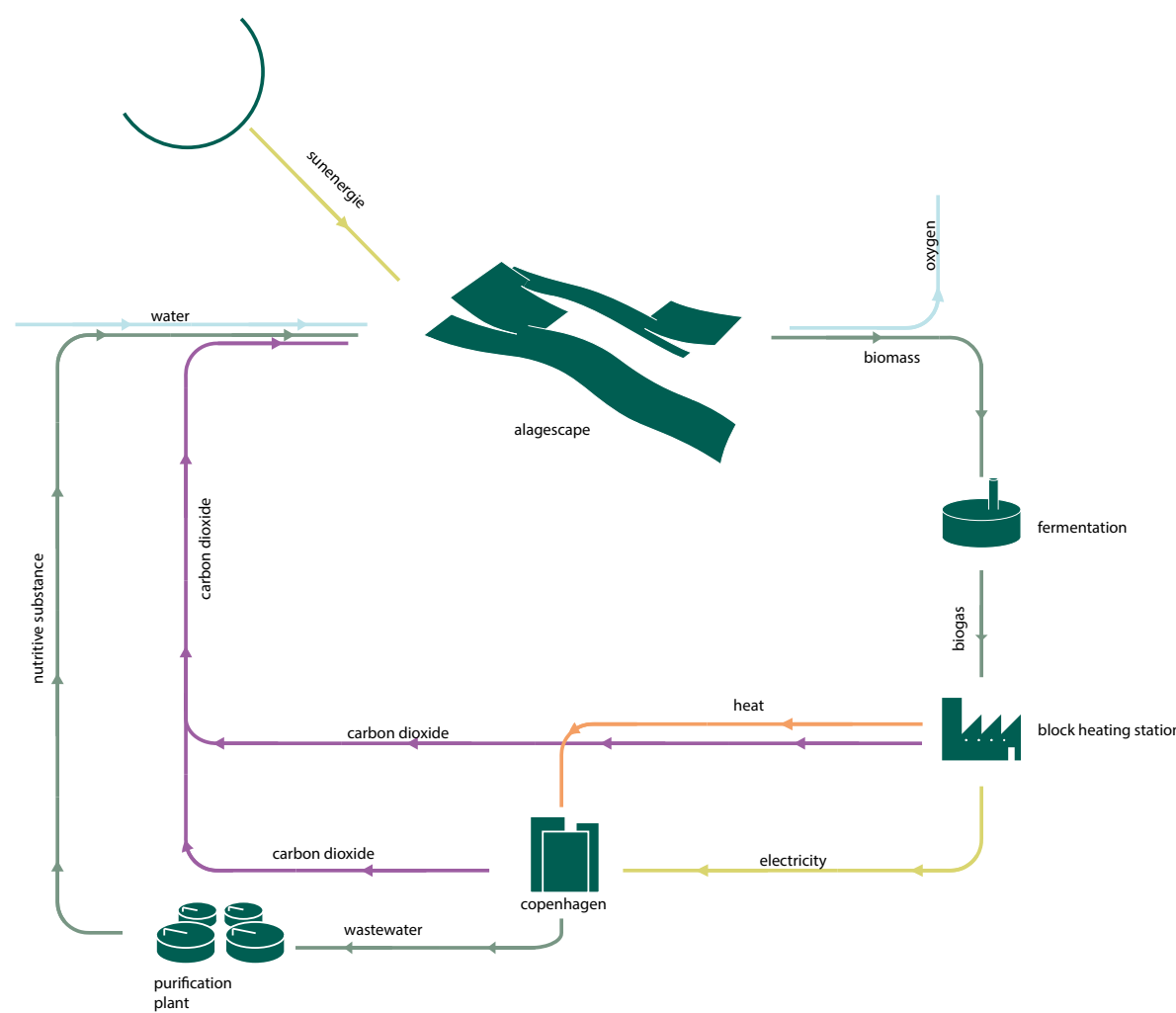


Biomass production from Algae

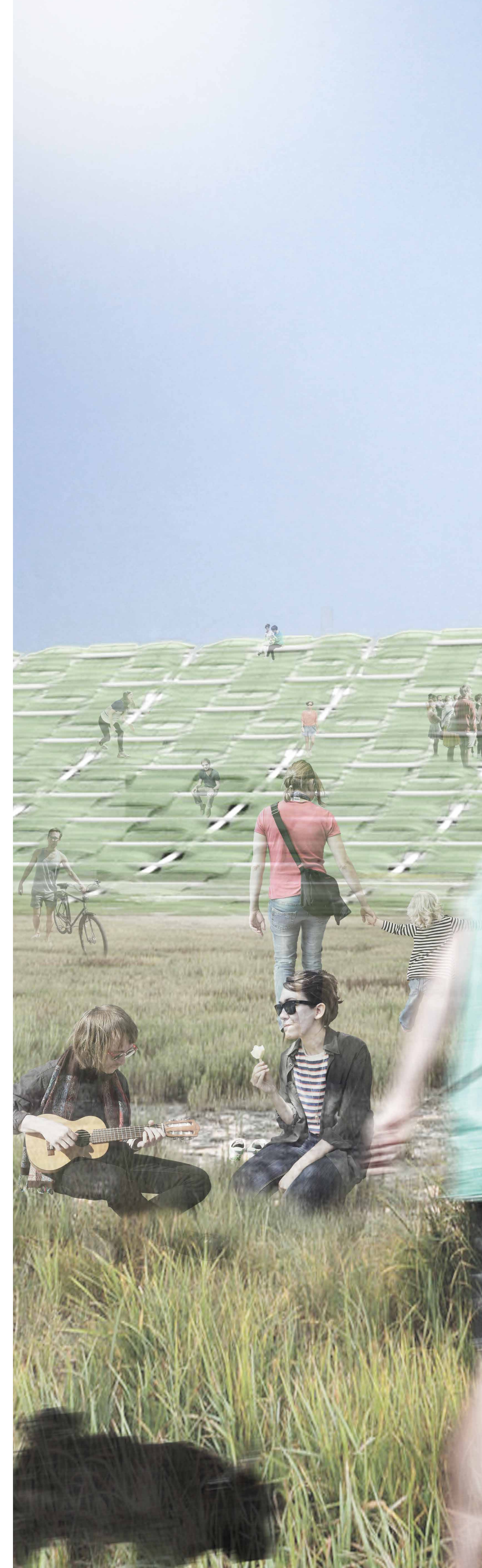
If you compare microalgae to normal crops the production of biomass is 5 to 10 times higher in the same amount of time. Algae is a very frugal and quite easy to handle organism, for the cultivation there are only a few important nutrients required, for example CO₂ and phosphor. Another important factor is, that for cultivation of the algae you do not need agricultural areas and the algae can be harvested throughout the whole year, also algae requires only a little amount of sunlight to grow by photosynthesis. Biomass from algae is homogeneous and does not include lignocellulose, the consistency can be regulated by determined cultivation conditions. In comparison to higher plants, the water used for cultivation of algaebiomass is significantly lower.

pipevolume	425m3	425000 liter
biomass per liter per day	0,55g	233,75kg
biomass per annum	85318kg	85,318t
biogas per kilogramm	0,85m3	72520m3
energy content biogas per m3	6kwh	435121 kwh
energy consumption per household per annum	ca. 5000kwh	87 households



In the morning

When you come and visit algaescape in the morning you will meet some early bird jogger enjoying the first sunrays glimpsing through the woven algae structure. As a leisure activity you can jog around the track or use the landscape as your personal track with different height levels. Also there is the possibility of riding your bike over the algaescape and enjoy some downhill racing. After your sport activities you can sit on the waterfront and enjoy the view towards the city or go for a little swim. The algaescape in the morning is the perfect location for your early morning leisure activities, if you do not like to work out, just enjoy the different beautiful colors the algaescape creates in the morning hours.



At noon

At noon the algaescape gets more and more crowded with different groups of visitors. There are people who want to visit the algaespace and learn about the biomass production, which is completely experienceable. Another group strolls around the algaescape and enjoys the views from top of the algae hill. From there you have a nice view over the site and the city of Copenhagen. The third possible group is here for lunchtime, just get a little snack from one of the container shops or enjoy your lunch at Amass, one of the best restaurants in the world. The algaescape provides a perfect location for the open air terrace.



At night

At nighttime the algaescape will be widely visible, on the one hand due to a great illumination by energy efficient leds and on the other hand due to large concerts that can be held on site. When there is a concert the algaescape structure can be used in different ways, the slope in the back can serve as a tribune and the hills as the roof structure for the stage. This will lead to many different amazing views from where you can enjoy the concert or theater performance, whether you are down in the crowd in front of the stage or on the slope or even on the hill above the stage, it will be a once in your lifetime experience!