

01 GRID SLIDE

Grid Slide creates renewable energy for the energy Grid based on farming of micro algae. But Grid Slides real potential lies in creating diversity and value from waste products by returning it into circulation.

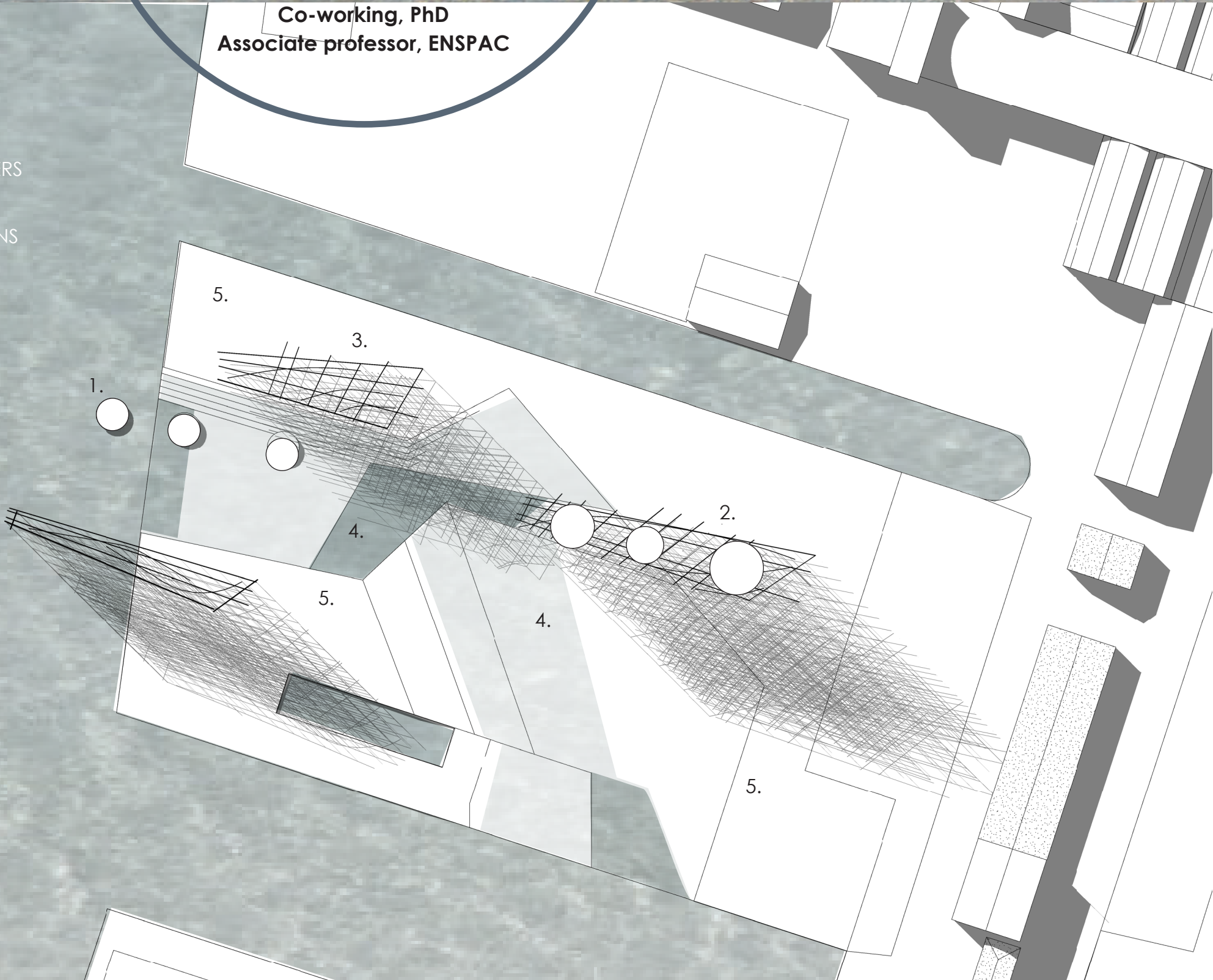
Grid Slide is also a landscape sliding between land and ocean, being transformed by the changing waterlevels of the sea around Copenhagen. A recreational landscape between urbanity and nature, between landscape, farming and industrial production.

This project is based on technologies that are under development and whose full potential is yet to be explored. It was developed in collaboration between architects, designers and technical researchers as well as technicians from a municipal supply that works with the testing of the techniques demonstrated in the project.

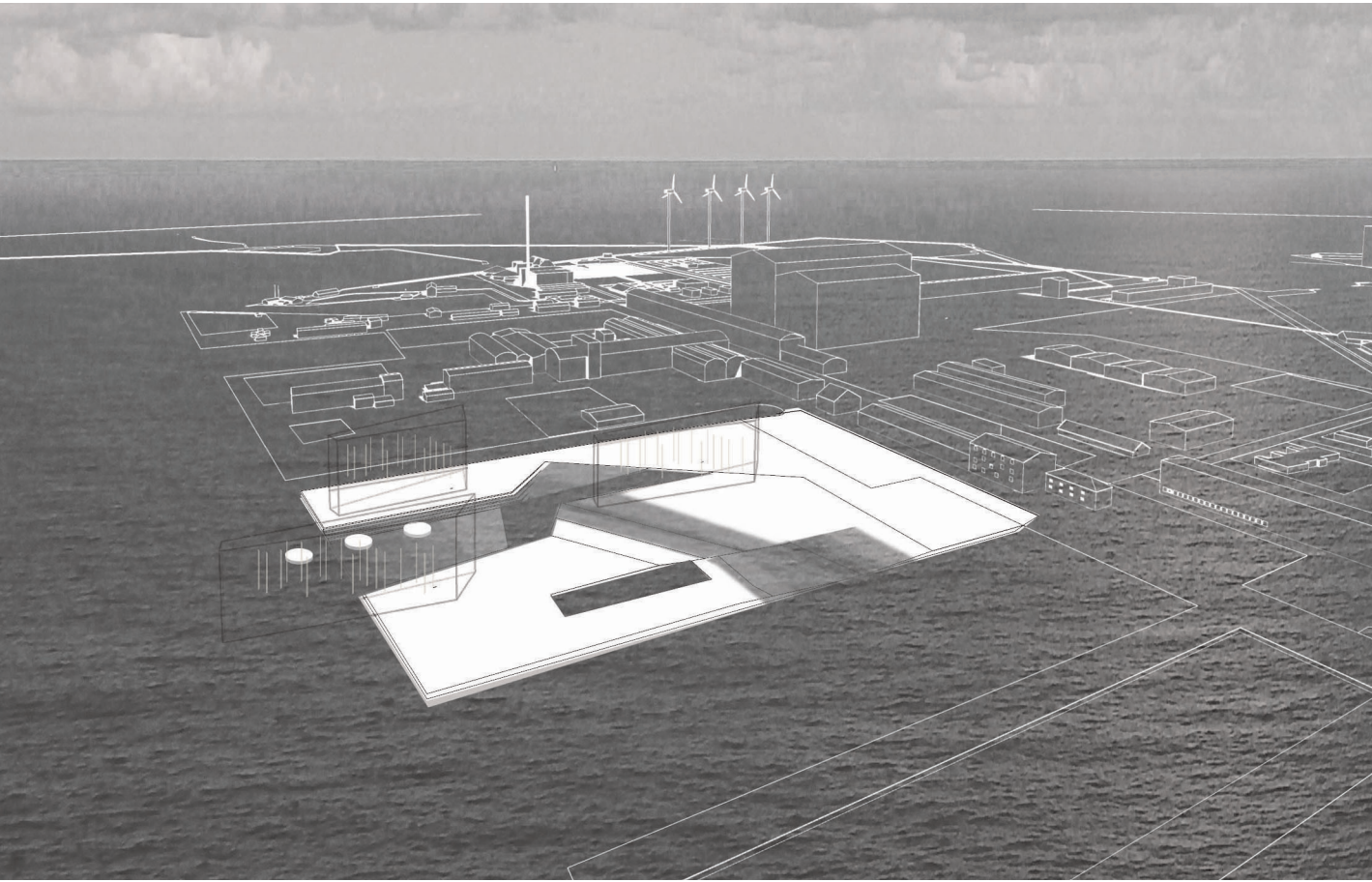
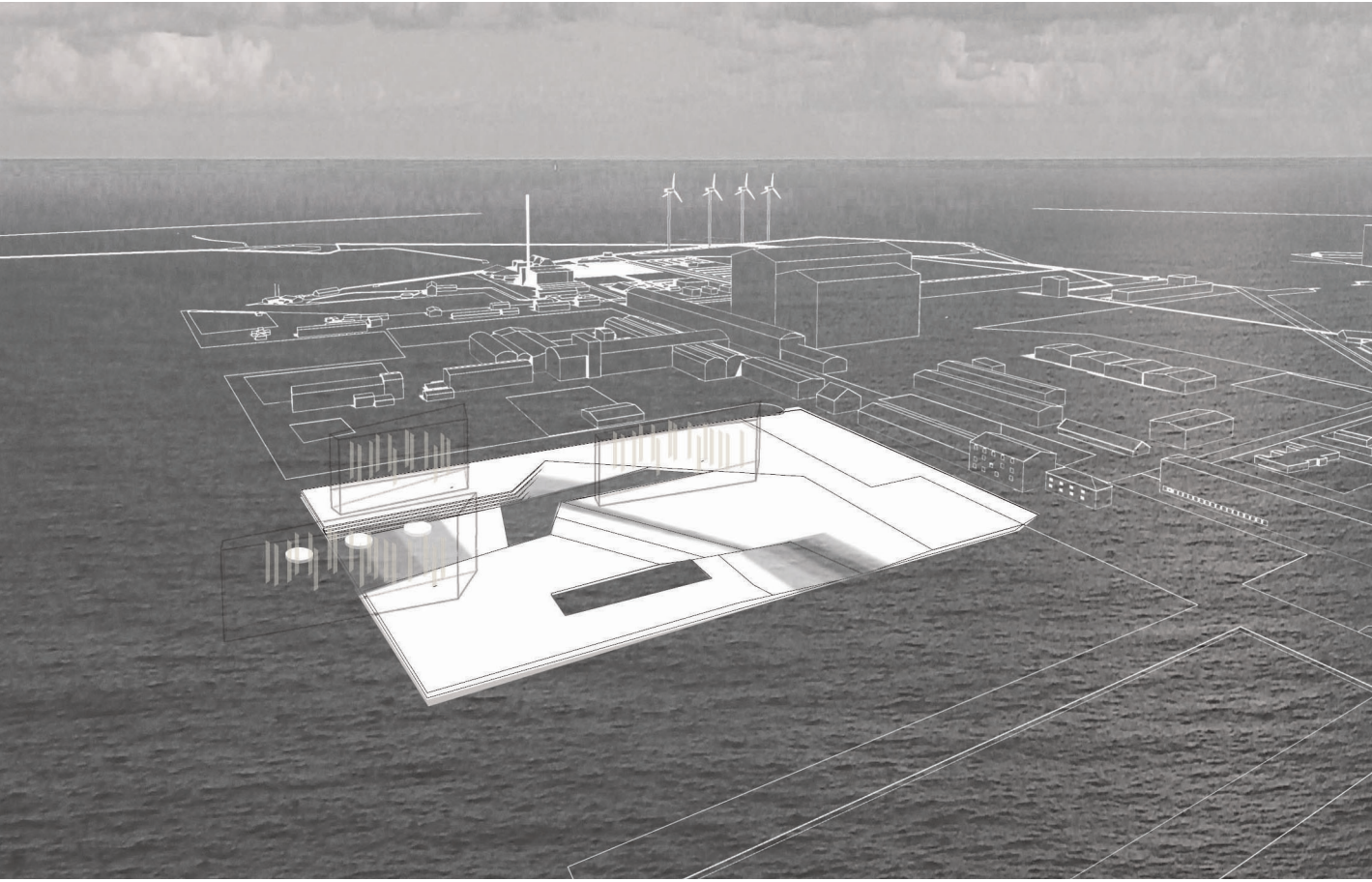
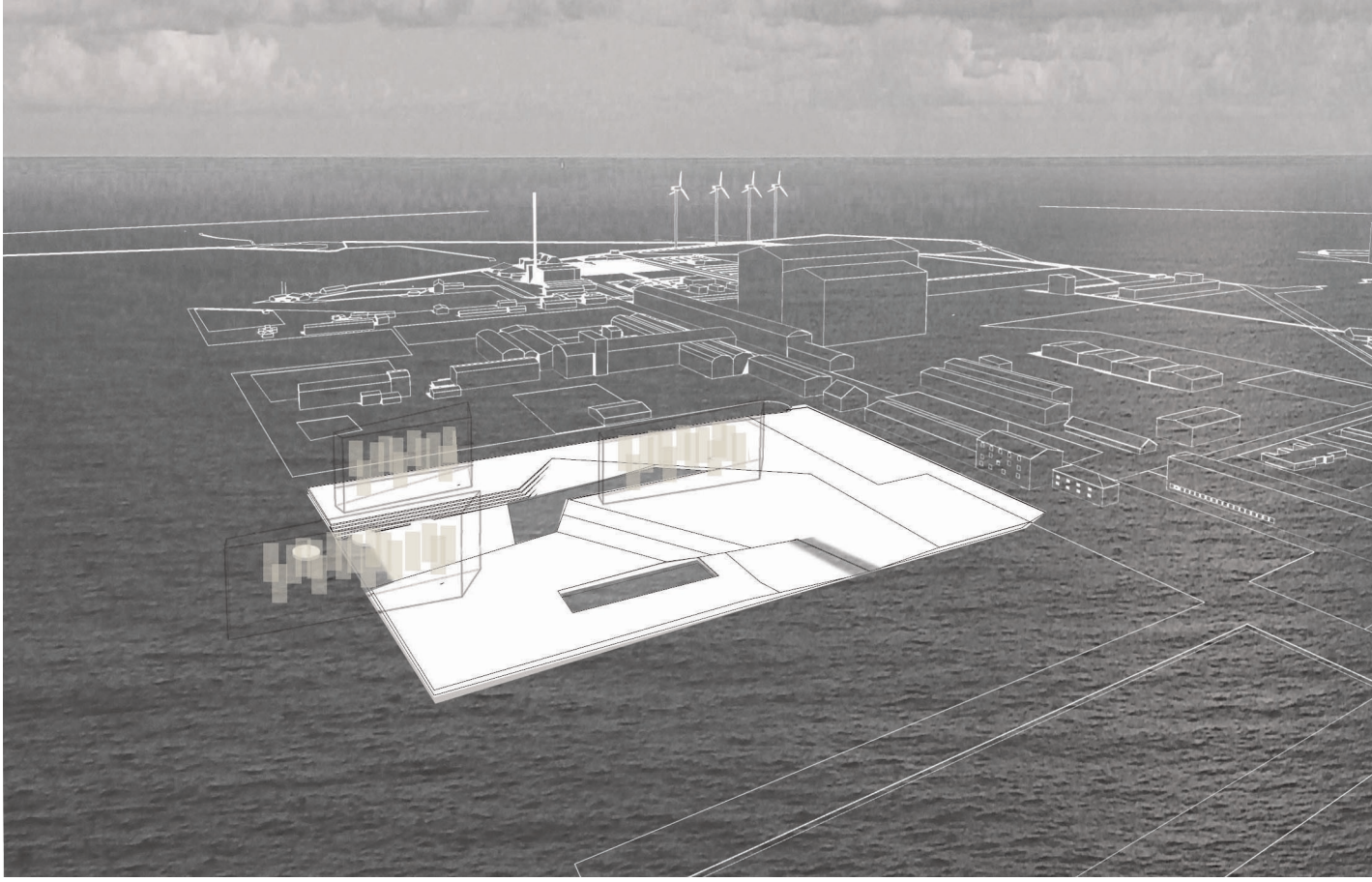
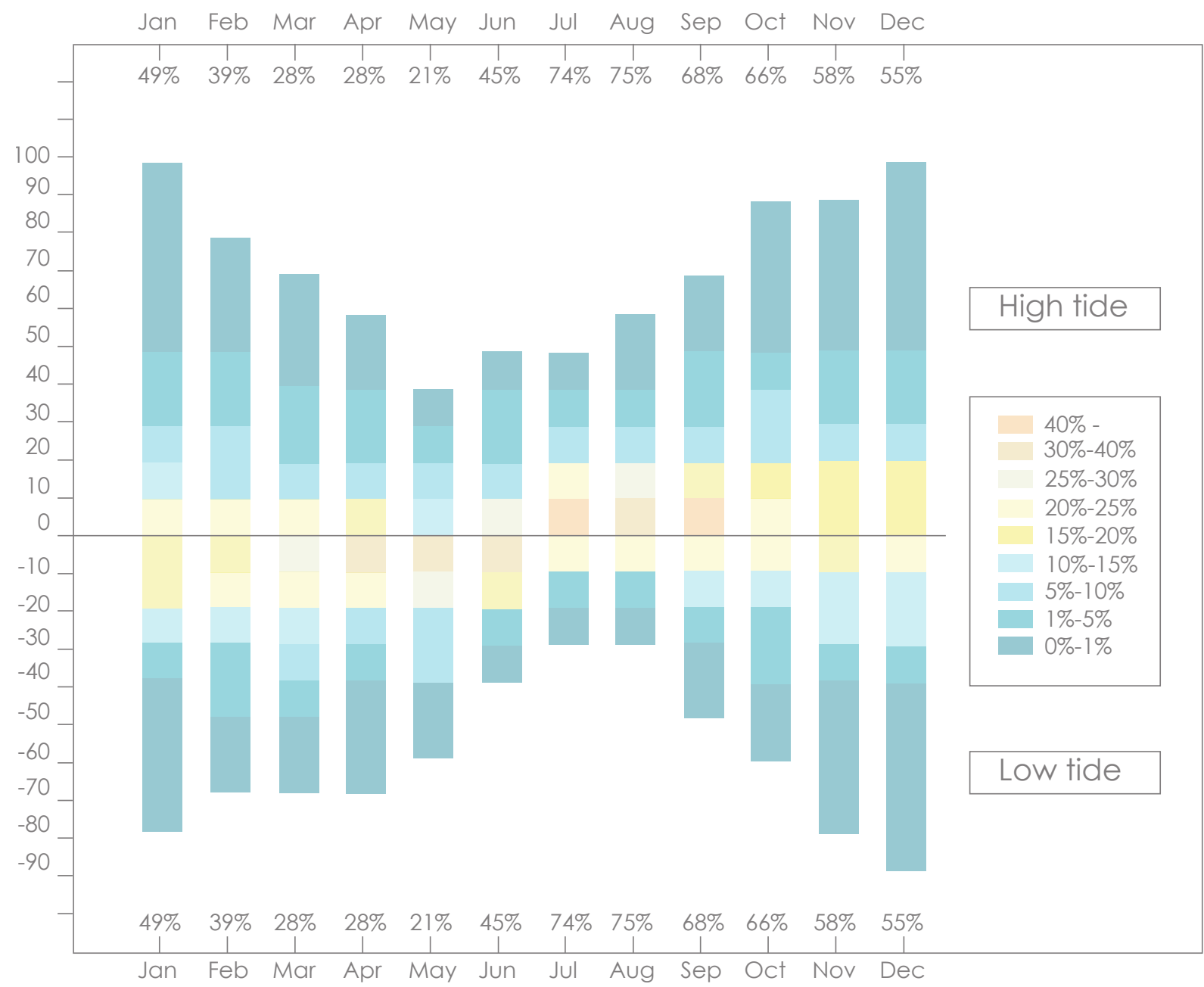
In our modern society we cannot afford to waste resources, whether energy or nutrients. We need to close the loop on the energy and nutrient streams, so that they become true cycles. In fact, our most pressing environmental problems, global warming and eutrophication, are caused by our inability to close the loops of energy and nutrients. It is not about reducing waste, it is about getting rid of the concept of "waste" altogether. Leftovers from one process must be seen as resources for another process. Algae are near perfect in this context. To grow they need nutrients, which can be taken from sewage, and carbon dioxide, which is released from our fossil energy production. Using sunlight, they will convert this to valuable biomass.

Co-working, PhD Associate professor, ENSPAC

- 1. PUMPS
- 2. GASIFIER
- 3. ALGAE TOWERS
- 4. WATER BASSINS
- 5. VEGETATION



Seasonal change frequency of high and low water level



Different water levels changing the shape of the landscape

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