

Post-Carbon spatial planning in port cities

Keywords: Energy, History, Law, Oil Heritage, Transition, Urban Planning

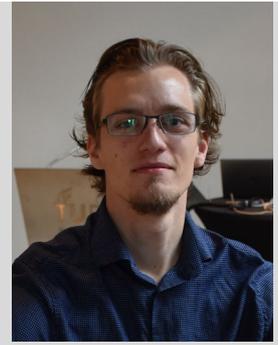
Architecture Department /Chair of History of Architecture and Urban Planning

Area of Research: Design & History



Research Summary: Petroleum and its products have extensively shaped our society and the use of spaces. Cities and landscapes are built on and thanks to this energy. Studies highlighted the growing space dedicated to oil in port cities. They must be used as a basis to understand how complicated the transition will be, not only on the energy issues but also on the transformation of all these extended areas. To avoid the spread of unused zones and their dying infrastructures in cities we must go forward and imagine scenarios without oil. First, we need to understand the historical particularities of these sites to efficiently advise the stakeholders on how to go beyond the current situation. A clear knowledge of the legal framework in town planning and environment is also essential to plan these zones according to the future needs of ports and their cities. This research proposes a comparative study of a common infrastructure in Dunkirk, Antwerp and Rotterdam ports. It will examine the influence of oil industries on the development of regulations and reflect on their potential developments.

Research Methodology: At first, an overview of the historical background of the petroleum infrastructures is necessary to understand the actual situation in ports and the legal framework. Then the comparison of planning policies and legal frameworks will allow the understanding of the differences and the development of alternatives regarding the heritage transition.



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Main Question: *Which transition for the oil heritage and what evolution for the planning tools?*

Deliverables: *Anticipating the issue of pollution and "requalification" of oil infrastructures will allow the implementation of appropriate planning actions*

Updated: November 26, 2018