

History of Architecture and Urbanism

MSc2 Design Studio Beyond Oil



The Transocean Winner drilling rig, beach of Dalmore on the Isle of Lewis, 9 August 2016. Photograph: Andrew Milligan/PA

Tutors

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Code	AR0152
Credits	15 ECTS
Location	TU Delft / Zoom
Excursion	TBD
Costs	?

Project type	Multidisciplinary
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Approved Master 2 Architecture design project	Yes
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An end to our petroleum-based lifestyles and the use of renewable energies will impact our cities and buildings. The Design Studio Architecture and Urbanism Beyond Oil argues that we have to first understand the enormous collective presence of oil in the built environment, its impact on production processes, financial flows, and associated social and cultural patterns in our everyday environment, and the long history of oils impact on our lives. Then, we can imagine the needs and spaces of the future and transform our existing landscapes, cities and buildings.

The Architecture and Urbanism Beyond Oil studio starts with an investigation of how petroleum – its extraction, refining, transformation, and consumption – has shaped our built environment in visible and invisible ways around the world over the last 150 years.

Some students have built on their history thesis exploring oil depictions in Hollywood films or evolving mental maps of oil as a foundation or design. The studio then identifies global landscapes of energy and oil. It maps and translates

the findings into accessible visuals, with the goal to develop an architectural, urban or landscape project that address these findings and propose new uses and solutions.

The MSc2 studio AR0152 will focus on the challenges and opportunities that energy transitions will bring for architecture and urban areas. The studio will develop future scenarios for the ports of Rotterdam and Miami, the implications for their cities, embedded in a context of the effects of the energy transition on main ports worldwide.

Students will be asked to imagine and design the consequences of energy transition trajectories, and especially their impact on architectural and urban spaces and urban life.

Will gas stations become the new lifestyle hubs? Roads become energy generators? Will port harbors become algae farms, recycle plants and green leisure areas? And specially, what will the undeniable and urgent energy transition bring for new chances for the city?