

Prof dr **Andrea Ramírez** is professor on Low Carbon Systems and Technologies at the Faculty of Applied Science at Delft University of Technology in the Netherlands, and director of the University Graduate School. Prof Ramirez holds a bachelor's degree in chemical engineering, a master's in human ecology and a PhD in industrial energy efficiency. Her research aims to support the defossilization of industrial clusters by developing robust methodologies that can be used to identify and assess impacts, synergisms, and bottlenecks of new technologies. The research is interdisciplinary in character and integrates her chemical engineering background with ex-ante techno-economic analysis, environmental life cycle assessment and system analysis. Prof Ramírez has been involved in multiple national and international projects and has published over 100 articles. In 2019, she was awarded a personal research grant (VICI- 1.5 MEuro) by the Dutch Research Foundation (NWO) to assess the impact of using alternative carbon sources in petrochemical clusters. She is editor-in-chief of the International Journal of Greenhouse Gas Control (Elsevier), a jury member of the XPrize competition on carbon dioxide removal and serves on different committees at national and international levels.