Andrea Ramírez

Position/Department/Division/Institution/Organization

Professor/Engineering Systems and Services/ Group Energy & Industry/ Faculty of Technology, Policy and Management/ Delft University of Technology

Country

Netherlands

Career history

Dr. Andrea Ramírez is professor in Low Carbon Systems and Technologies at the Faculty of Technology, Policy and Management- Delft University of Technology. She holds a bachelor in chemical engineering (Colombia), a master in Human Ecology (Belgium) and a PhD in the field of energy efficiency. (the Netherlands). Her research focuses on the evaluation of low carbon technologies and the design of methodologies and tools to assess their potential contribution to sustainable (energy and resource) systems. Prof. Ramírez interest in this subject has taken her into a wide range of fields, including system analysis, process modeling, techno-economic assessment, life cycle assessment, risk assessment, and uncertainty analysis. She has been involved in several national and international projects. Among others, she was co-coordinator and principal investigator of the European project EDDICCUT (Environmental due diligence of novel CO2 capture and utilization technologies); leader of the program line Techno economic and environmental analysis of the Dutch R&D program Catalysis for Sustainable Chemicals from Biomass (CATCHBIO), and leader of the program line in Transport and Chain integration of the Dutch R&D program for CO2 capture, Transport and Storage (CATO). Prof. Ramírez is currently member of the jury panel of the NRG COSIA Carbon Xprize. This is a 20-million-dollar global competition to develop breakthrough technologies that convert CO_2 emissions from power plants and industrial facilities into valuable products. She is associate editor of Elsevier's International Journal of Greenhouse Gas Control.

Awards/Publications

Prof Ramírez has 86 scientific articles which she has (co)-authored. Furthermore, she has written 7 book chapters and over 40 scientific reports. For a list of scientific publications see: https://www.scopus.com/authid/detail.uri?authorId=57194845557

Areas of expertise

Carbon capture utilization transport and storage (CCUS), Biobased chemicals, system analysis, process modeling, techno-economic assessment, life cycle assessment, risk assessment, and uncertainty analysis