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Nicholas Howarth is a Research Fellow at the King Abdullah Petroleum Studies and Research Center (KAPSARC) leading work on energy productivity, or how greater economic, social and environmental value can be gained from energy use. His current research focuses on the possible energy transition pathways associated with Saudi Arabia's Vision 2030 economic transformation plans, particularly the roles of energy price reform, energy efficiency and economic diversification. In addition to advising government stakeholders, this research has been undertaken in partnership with the United Nations Economic and Social Commission for West Asia (UNESCWA) and leading international research centers including the Energy Research Institute (ERI) in China. It has been featured in G20 and other international energy fora in support of achieving the UN's Sustainable Development Goals. Nicholas is a former advisor to the Australian Environment Minister and holds a doctorate in Economic Geography from Oxford University as well as an honors degree in Economics from the University of Adelaide. His co-authored book *Carbon Markets: An International Business Guide* was placed in the top 25 academic publications for 2010 in the category of economics by the American benchmarking journal *Choice*.









