



Kevin O'Toole, Exergyn Ltd.

Abstract: Towards commercially viable large scale elastocaloric heat pumps

Exergyn is a commercially focused organisation leveraging the superelastic effect in SMA for the development of large scale elastocaloric heat pumps. Since starting over a decade ago with a team of three, Exergyn has grown to a team of 40 located across four countries, having raised in excess of \$50 million along the way. This talk will outline our story from an entrepreneurial standpoint; the challenges we faced, a high level view of our technology, our notable successes to date, our focus into the future and what we need to do to realise our solution as the natural successor to vapour compression systems.

Author's Bio: Kevin O'Toole

Kevin is co-founder and CEO of Exergyn Ltd. He holds both a 1st class B.Eng in Manufacturing & Design Engineering, and a PhD from the Technical University of Dublin, Ireland. He has spent almost two decades in commercial engineering R&D and technical project management. Kevin initially lead the technical side of Exergyn before taking over as CEO in 2019.