The most conservative estimates for energy usage by humanity predict that energy consumption will double by 2050, and triple by 2100, and thus it is the next generation who is facing this challenge head-on. Young people are acutely aware of this challenge — according to the World Economic Forum, the top concern of Millennials is climate change. We need to ensure the safety, security and stability of our planet to have a hopeful future for the next generations. Energy underpins all aspects of society, and thus highly scalable, low-carbon energy sources are needed. If you look closely, the transition to a low-carbon world is upon us, and yet it is scarcely noticeable. Historically, when the world has been on the cusp of a major technological transformation, there have inevitably been very loud naysayers, crowing loudly about how the internet, telephones, and the automobile, for instance, will fail, and low-carbon energy is no different. I will discuss the various sources of energy available to humanity, and their scalability to respond to a doubling of energy usage, and will touch upon the psychology of humans when responding to technological change to show that this transition is something to look forward to. The transition is here, and it’s OK.