

## **The Internet of Everything (IoE) and The Third Wave of Sustainable Development**

By Grahame E. Maisey, P.E. and Beverly Milestone

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In 2014, The Economist ran an article about “The Third Wave” listing the first two waves as the first and second Industrial Revolutions and the third wave the Information and Communication Technology (ICT) Revolution which occurred in the late 20<sup>th</sup> century. These “waves” all created radical change that had losers as well as winners.

Steve Case’s new book, “The Third Wave”, outlines three internet phases, the beginning of the internet, the current Internet of Things (IoT) and the future Internet of Everything (IoE). We should consider how we can maximize the benefits of IoE and ICT.

Both these arguments have legitimacy but there is another component that must be included in The Third Wave: Sustainable Development. Specifically, sustainable development in food, transportation and buildings. This includes the Circular Economy, the economic basis of sustainable development.

There have been radical changes in food and transport that need further development.

The Third Wave in buildings comes directly from the convergence of IoE with the Manufacture of Everything (MoE) and the Circular Economy. This includes a Wave of Global Human Concern *and* Achievement for the wellbeing of our planet such that it results in sustainable development for a healthy future of our planet and its people, plants and animals.

It’s not alright to say the future is IoE if it’s connecting the same old stuff or the same old stuff that is a baby step better. IoE needs to be developed in a comprehensive, sustainable way with MoE. The IoE major players will have a major influence on MoE and will help drive it forward. They need the constitution to assure the result. And we need to start today.

One example of the technology necessary for this Wave is NEMCO LDAC, the first patented high performance air conditioning technology developed to operate entirely on clean, renewable energy sources. It will eliminate electric refrigeration and its toxic refrigerants and save over 90% of the electricity of conventional systems. It also filters, purifies and sterilizes the air while separately controlling the humidity and temperature to provide building occupants with the most secure, safe, healthy, comfortable and productive environment.

NEMCO LDAC reduces total building electrical energy use by over 25% and, as importantly, eliminates the peak electrical demand in the summer caused by air conditioning that in turn causes electric grid brownouts and blackouts. The technology has anticipated all current and future global code requirements for energy, comfort and air quality. It is also prepared for the circular economy by being constructed with recycled materials that can be recycled and packaged and delivered in a similar manner to IKEA so it can move rapidly into global deployment.

Radical change is about the hit the air conditioning industry and the quest for radically better energy and comfort performance is close at hand. NEMCO LDAC is the front runner in this radical change and an essential building block for global sustainable development.