

Curriculum vitae Dipl.-Ing. Kolja Kuse

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Marital status: married to Dr. Mera Kuse



Kolja Kuse graduated in electrical engineering at Technical University in Aachen/Germany with a focus on power engineering and technical and scientific computing.

He worked many years as project manager in high performance computing projects at companies like Cray Research and NEC Supercomputers in highly political projects like the acquisition of a large national supercomputer (HLRE) at the German Climate Computing Center in 2001.

The system was compatible with the famous Earth Simulator being installed in Yokohama the same year, the largest parallel vector supercomputer in the world at the time, dedicated to Earth Sciences. Kolja Kuse implemented with help of US enterprises the first scalable parallel file system on the NEC SX-6 in Hamburg.

Many findings of the IPCC 2007 report are based on the simulations on these large supercomputer systems carried out by the main user at the time, Prof. Dr. Mojib Latif of Max-Planck-Institute for Meteorology in Hamburg (today head of the Club of Rome Germany), delivering the necessary computing power for the first time in order to prove that human interaction with the climate is responsible for the quick climate change we are currently experiencing.

In parallel he started working with a couple of friends on the development of new materials based on a combination of carbon fibers and minerals (MCC/CFS), including first ideas to generate value for climate change mitigation by replacement of energy- and CO₂-intensive materials and founded TechnoCarbonTechnologies GbR in 2005.

Since 2007 he attended most of the UNFCCC conferences (COP) to elaborate the idea to utilize building and construction materials in a new way to serve climate change mitigation in dialogue with climate change experts on an international level.

In 2015 Kolja Kuse was elected to become the Chairman of the „European Business Council for Sustainable Energy e.V.“, commonly know as „e5“.

e5 was celebrating its 20th anniversary in 2016 as officially acknowledged NGO by the UNFCCC.

e5 was founded among others by GERMANWATCH, a highly respected German NGO observing German policies in climate change, mitigation, adaptation and active fight against CO₂-emissions.

In 2017 Kolja Kuse founded **CleanCarbonTechnology GbR** together with Co-Founders Prof. Uwe Arnold and Prof. Thomas Brück to market the idea to combine carbon fibers made from CO₂ with mineral material like natural and artificial stone materials.
