

Dear Dr. Bauer,

I would like, on the behalf of the EoCoE project, express my support to your ExtremeEarth flagship proposal.

EoCoE is the Energy Oriented Center of Excellence, one of the 9 center of excellence for computing application set-up by the EC in framework of the H2020 work-program.

EoCoE is using the prodigious potential offered by the ever-growing computing infrastructure to foster and accelerate the European transition to a reliable and low carbon energy supply.

It is contributing to the energy transition via targeted support to four renewable energy pillars. Out of these four pillars, two are directly connected to the activities proposed in the ExtremeEarth :

Our « Meteorology for Energy » workpackage cope with the variability of weather on renewable energies such as solar and wind sources to gain in supply predictability, it is particularly concerned with the prediction of rare events that could results in a global Network failure. In the « Water for Energy » work package, we analyze the possible production and storage hydropower scenarios under climate change constraints and geothermal heat and electricity production possibilities under heavy populated areas.

All the work done is EoCoE could certainly be leverage in a futur flagship and the EoCoE project, which should hopefully continue, would greatly benefit form the creation of the ExtremEarth flagship.

Best regards,

Edouard Audit, EoCoE coordinator.