

Grand Challenges, Strategic Roadmap and Consortia for Energy, Power and Transport for Net Zero

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Abstract—This contribution will report on the summary of three white papers on Fusion, Industry, Power and Energy, and Transport. This will include a shortlist of grand challenges for each white paper with an update on the corresponding TRLs of the selected technologies and the initial Consortia membership addressing the identified grand challenges and the proposed strategic roadmaps together with the impact of adopting the strategic roadmap for net zero carbon emissions and UN 17's Strategic Development Goals.

Keywords (Index Terms)—Superconductivity Global Alliance (ScGA), fusion, industry, power, energy, transport

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