

ESS – a Big Science facility under construction



ESS is a multi-disciplinary research facility based on the world's most powerful neutron source, that will enable scientific breakthroughs within energy, environment, healthcare and materials, addressing some of the most important societal challenges of our time. ESS will be one of the world's first sustainable research infrastructures. Some examples of future research:



ESS will contribute to the development of disease-resistant crops and to reduce energy consumption in food production. Complex structures in foods of all kinds can be studied, to reveal protein and emulsion structures as well as chemical processes, in order to ensure safer and healthier food.



ESS will enable researchers to refine organic solar cells, paving the way to higher performing, less expensive energy devices for widespread distribution. Neutrons are a unique analytical tool that will benefit the development of hydrogen-driven fuel cells and better batteries.

Advancing science so that future generations can thrive