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Date: 06 Dec 2024

### **Experiences for Consideration in Fusion Power Plant Design Safety and Safety Assessment**

<https://www.iaea.org/publications/15788/experiences-for-consideration-in-fusion-power-plant-design-safety-and-safety-assessment>

[PDF] <https://www-pub.iaea.org/MTCD/Publications/PDF/TE-2076web.pdf>

### **Focused Energy hits milestones in US fusion programme**

<https://www.neimagazine.com/news/focused-energy-hits-milestones-in-us-fusion-programme/>

### **Accelaron Banks on Muons for Colder Fusion**

<https://spectrum.ieee.org/colder-muon-fusion-energy>

### **SNU researchers reveal the mechanism of runaway electron generation in tokamak fusion reactors**

<https://www.eurekalert.org/news-releases/1067162>

### **Breaking through plasma's chaos for stellar science and fusion energy**

<https://www.aa.washington.edu/news/article/2024-12-04/stellar-science-and-fusion-energy>

### **General Fusion achieves plasma breakthrough**

<https://www.neimagazine.com/news/general-fusion-achieves-plasma-breakthrough/>

### **DOE Partners with UK's DESNZ and Tokamak Energy Ltd. to Accelerate Fusion Energy Development through a \$52M Upgrade to the Privately Owned ST40 Facility**

<https://www.energy.gov/science/articles/doe-partners-uks-desnz-and-tokamak-energy-ltd-accelerate-fusion-energy-development>

### **Approaching the unexplored “plasma phase-space” with data science**

<https://www.eurekalert.org/news-releases/1066554>

### **Realising fusion energy's potential in Europe**

<https://www.innovationnewsnetwork.com/realising-fusion-energys-potential-in-europe/53676/>

### **The future of nuclear energy: An expert insight**

<https://www.neimagazine.com/analysis/the-future-of-nuclear-energy-an-expert-insight/>

### **A Toroidal Mode in an Excited Nucleus**

<https://physics.aps.org/articles/v17/s146>

### **Serbia plans for future with nuclear energy**

<https://www.world-nuclear-news.org/articles/serbia-plans-for-future-with-nuclear-energy>

**What is the new battery that never dies?**

<https://www.bbc.com/news/articles/cx2v48003l8o>

**India Eyeing Up to 22 GW Nuclear Capacity by 2031, Says DAE Secy**

<https://www.outlookbusiness.com/planet/sustainability/india-eyeing-up-to-22-gw-nuclear-capacity-by-2031-says-dae-secy>

### ***Recent Peer-Reviewed Articles of Interest***

**Spatial analysis of femtosecond laser generated plasma using principal component analysis**

<https://www.nature.com/articles/s41598-024-81389-9>

**Long-term research and design strategies for fusion energy materials**

<https://www.sciencedirect.com/science/article/abs/pii/S2590238524004491>