

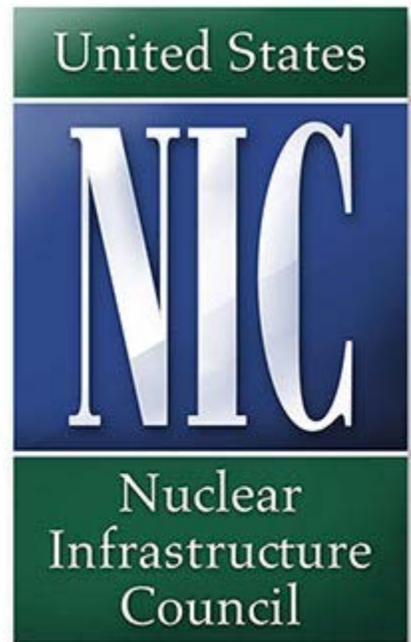


Thorium Will Power The World

TEA Developing Relationship with NIC, One Last Attempt to Save Illinois NPPs, Color Coding Leads to Confusion & More Industry Updates.

The TEA has initiated talks with Nuclear Infrastructure Council ([NIC](#)) about holding a detailed briefing about stabilizing the grid, saving the existing fleet of LWR reactors, and promoting Hydrogen from nuclear for Green Steel production.

The Caldera Pea Ridge Green Steel Project not only holds great potential to become the torch-bearer as a real world demonstration of deep-decarbonization, but also demonstrates tailing processing, remediation and rare earths and **Thorium** production. Green Steel paired with Molten Salt Reactor technology becomes even more possible when we have available elevated working temperatures of Thorium MSR (~550-600 C) , which affords tremendous opportunities across a broad array of industrial uses for process heat.



Byron and Dresden on the Verge of Shutdown - Still Time to Make a Difference

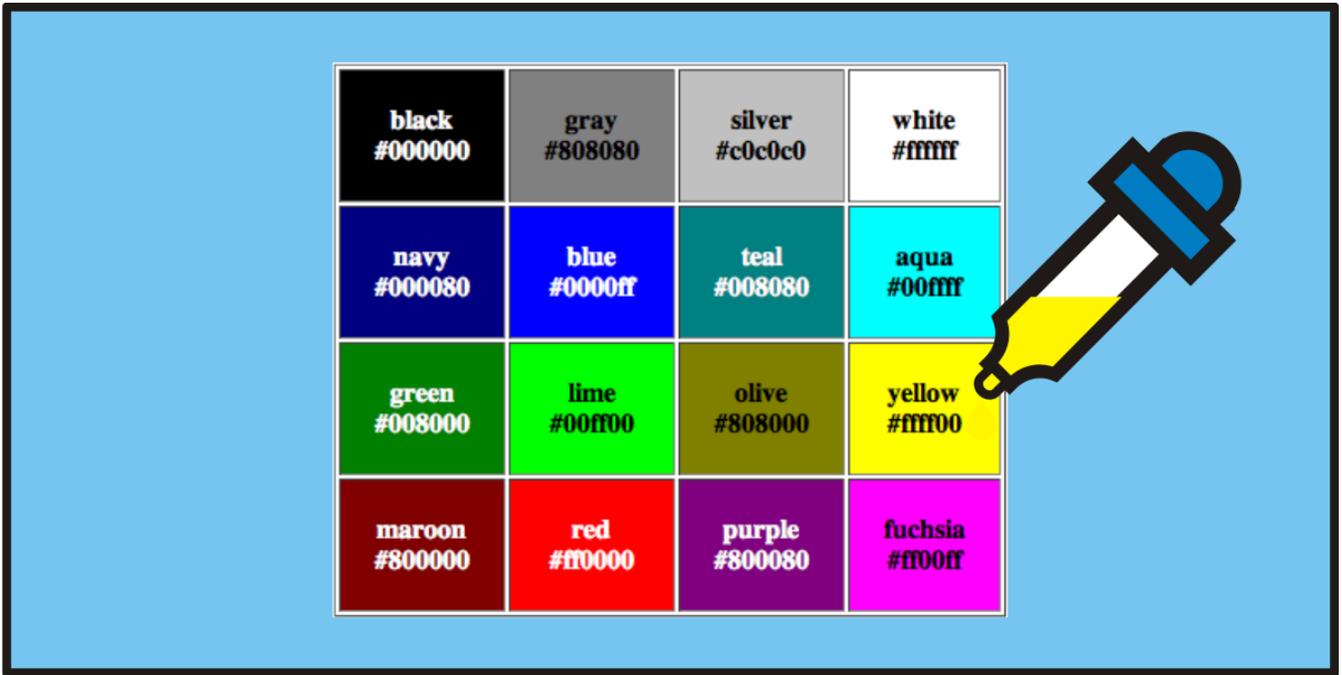
Two Illinois NPPs are on the verge of being prematurely shuttered in what can only be described as one of the most short-sighted ill-conceived and environmentally harmful acts. This really hits home to me as on clear days I can actually see the steam rising from the Byron Plant from my office window. Our friends at [Generation Atomic](#) have been fighting the good fight to help keep these two plants open. Please join us in giving them a hand in saving these critical environmental assets. From Eric Meyer, Founder Generation Atomic:

"From what we can tell, this may be the last week we can do anything to save Byron and Dresden Nuclear plants. Generation Atomic has put together a script and a call list of the key lawmakers on the energy and environment committees that are responsible for agreeing on a bill that would save the plants. They need to hear from as many pro-nuclear people as possible: <https://generationatomic.org/take-action/save-illinois-byron-and-dresden/> You can also send emails, fax messages, and letters to the editor at the link."



ORNL Announces 2021 MSR Workshop

Oak Ridge National Laboratory will again host this year's Molten Salt Reactor Workshop virtually on Oct 12-13. This year's conference will mark the 7th annual MSR workshop. Registration is needed to attend and space is limited.



Why Color Codes for Hydrogen Won't Work.

A recent report from Robert Howarth and Mark Jacobson concluded that industrial scale "Blue" hydrogen is no better for the environment than burning natural gas due to the technical hurdles in preventing even small amounts of methane from leaking. If leak rates are even slightly on the high end, Blue hydrogen is on par with burning coal. What is blue hydrogen? Fundamentally, the process involves using steam reformation to crack methane and water into hydrogen and carbon dioxide, whereby the CO₂ is captured, leading to a reduction in emissions. One main issue is making sure there are no methane leaks, a formidable task according to Tim De Chant's article in [ArsTechnica](#) "Methane is a small molecule, and it's great at finding cracks in the system."

In addition to blue, the industry is also using colors grey, red, purple, pink, white, yellow, turquoise, and green amongst others. Using all these various color codes without any true scientific standards being met will allow some in the industry to hide unwanted truths regarding hydrogen production. We feel strongly that hydrogen, when produced via nuclear energy, can be a sustainable pathway forward and too many color codes will muddy the waters and hurt industrial scale hydrogen in the long-term.

Our recent interactions with the United Nations Resource Management Systems ([UNRMS](#)) revealed to us that industry standards for "Green Steel" or "Turquoise Hydrogen" or whatever color codes are used need to have science-backed regulations or anyone coming to the party can use these confusing terms as a marketing ploy.

Thanks to all the support from members new and old, we strive to promote Thorium as the Fuel of the Future. Please consider making a contribution to promote Thorium!

John Kutsch
Executive Director

[Support the TEA](#)

