



NICE Future

Nuclear Innovation: Clean Energy Future

An Initiative of the Clean Energy Ministerial



Announcing the RISE³ Campaign

The Clean Energy Ministerial's (CEM) Nuclear Innovation: Clean Energy Future (NICE Future) initiative is proud to announce the establishment of a new campaign to **Research Impacts on Social Equity and Economic Empowerment (RISE³)**. RISE³ is building a first-ever partnership amongst governments and the nuclear energy, renewables, nonprofit and academic communities to accelerate the adoption of environmentally just clean energy solutions. Leveraging the insights and expertise of more than thirty participant countries and partner organizations, RISE³ aims to highlight breakthrough solutions that can accelerate movement toward net-zero.

RISE³ will convene expert resources, supporting analyses to inform investment decisions and creating a blueprint for countries transitioning to a clean and just energy economy with nuclear innovation as a key pillar.

Key activities include:

1. Recommending how nuclear technologies can advance environmental justice and equity.
2. Publishing analyses detailing how nuclear energy can complement and advance renewables through coupling and flexible operation in integrated clean energy systems.
3. Examining how flexible utilization of nuclear energy for electric and nonelectric applications can lift economies and improve quality of life for communities and nations, including remote, off-grid, or islanded communities.
4. Tracking community transformations, including monitoring how potential coal site conversions to nuclear and/or renewables may yield economic and jobs impacts.

Who is Engaged?

This effort is led by the United States, Canada, Japan and the United Kingdom. It also engages the expertise of two U.S. Department of Energy laboratories: the National Renewable Energy Laboratory (NREL) and Idaho National Laboratory. RISE³ also features research by environmental nonprofits including TerraPraxis, Third Way, Fastest Path to Zero Initiative (based out of the University of Michigan), and the Good Energy Collective.



RISE³ seeks to collaborate with the CEM Empowering People Initiative, the CEM Clean Energy Education and Empowerment Initiative, the CEM Hydrogen Initiative, and other CEM initiatives, as well as multigovernmental organizations such as the International Energy Agency, the Organisation for Economic Cooperation and Development Nuclear Energy Agency, the International Atomic Energy Agency, the International Framework for Nuclear Energy Cooperation, and the Generation IV International Forum.

Nomination of Experts

We invite the clean energy community to nominate participants for a RISE³ Expert Group. Nominees should have expertise including, but not limited to:

- Strategic design and implementation of clean energy systems.
- Environmental justice, social equity, and inclusion (including experience with underrepresented, youth, and gender-diverse communities).
- Emerging technology innovations, including integrated nuclear-renewable systems.
- Energy system economics and finance.
- Communications.
- Community engagement.

Key Outputs

RISE³ will focus on recommending actions that can generate jobs and improve quality of life in communities. New advances related to the potential for expanded nuclear-renewable integration, flexible electricity grids, hydrogen production, thermal and electrical energy storage, advanced nuclear technologies (e.g., small modular and microreactors), process heat utilization, desalination, and more will be addressed. Highlights of RISE³'s initial work, including a preliminary case study for Kenya, will be shared at the U.S.-hosted CEM13 conference in Fall 2022.

The RISE³ case studies will:

- Address issues of environmental justice and equity (e.g., socioeconomic, diversity, gender or youth development issues) and related economic and jobs benefits of nuclear energy.
- Provide substantive information and analysis on how innovative nuclear-renewable deployments support unabated coal retirements.
- Engage clean energy investors via informational workshops and webinars.
- Inform how adoption of net-zero emissions technologies with electric and nonelectric applications and support of rural/global electrification efforts will lift emerging economies, islanded nations, and remote communities.
- Feature opportunities that arise from technology diversification (e.g., impact of integrated energy systems on decarbonization across multiple sectors including industry and transportation).

Most importantly, RISE³ will engage your ideas. NICE Future needs your expertise and input to ensure success!

To sign up for notifications about upcoming RISE³ events, visit www.nice-future.org/rise3.html.