

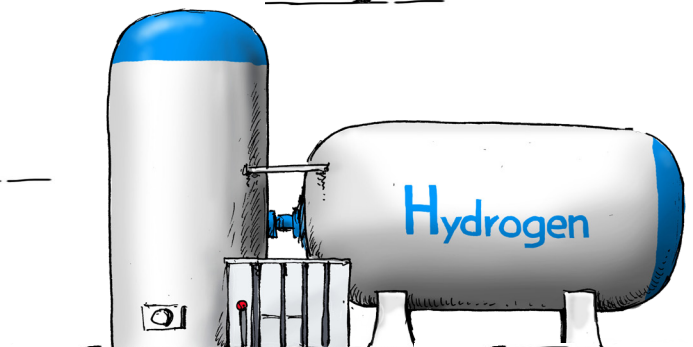
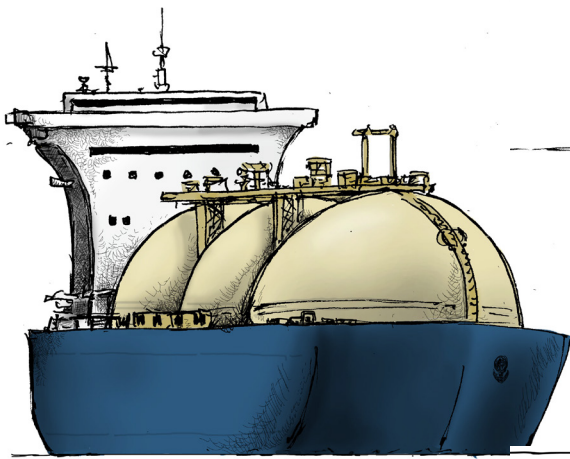


Geopolitical Intelligence  
Services Dossier

Europe's energy **PART 3**

# New life for old ideas

Safe nuclear energy  
and hydrogen  
storage as parts  
of the solution



# Key facts



**40.6%**

of uranium needed in the EU comes from Russia and Niger

➡ 07



## Russia's Rosatom

➡ 09

holds 38% of the global uranium enrichment market, 16 percent of the nuclear fuel market and 14 percent of the uranium mining market

**75%**

is the share of global GDP of economies that seek hydrogen-driven solutions in their climate change mitigation efforts

➡ 20



**10 GW**

of installed electrolysis capacity by 2030

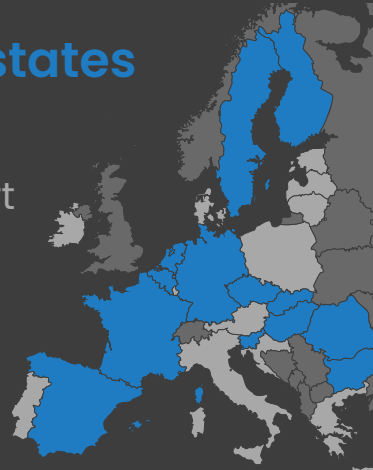
➡ 22

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## 13 EU member states

use nuclear power;  
some of them export  
nuclear-generated  
electricity to  
neighbors

➡ 07



**\$30 billion**

➡ 18

is the expected cost of the UK's Hinkley C nuclear power station, due to open in 2026



The U.S., China, France, Russia and South Korea generate

**71%** of world  
nuclear energy

➡ 14

The EU aims to scale up clean hydrogen production to

**1 million  
tons per year**

➡ 22



# Contents

 [click to go to the chapter](#)

- 05 Foreword: New nuclear technologies**
- 07 Russian uranium dilemma**
- 10 Can Kazakhstan supplant Russia?**
  - Risks and opportunities
- 13 Innovation may save the day**
  - Could smaller prove better?
  - Important caveats
- 17 Nuclear safety breakthroughs**
  - The third and fourth generations
- 20 Foreword: The promise of hydrogen**
- 22 Germany's hydrogen ambition**
  - Weaning hydrogen off fossil fuels
  - Significant energy loss
- 27 Emerging global market**
  - Things are moving fast
- 30 Energy producers are big on hydrogen, Q&A**

# Experts



## Carole Nakhle

Dr. Carole Nakhle is the founder and CEO of Crystol Energy, a London-based advisory, research and training firm. An energy economist, she specializes in energy policy, security and investment, and world oil and gas market developments.



## Helmuth Boeck

Helmuth Boeck is a professor at the Atomic Institute of the Vienna University of Technology and an expert at the International Atomic Energy Agency. He was the manager of the research reactor of the Vienna University of Technology for 40 years and carried out 80 missions to research reactors.



## Frank Umbach

Dr. Frank Umbach is an academic, researcher, consultant, European government advisor and author with expertise in energy security and cybersecurity. Since 2012, he has been a NATO consultant on energy security.