2020 is a year unlikely to be forgotten anytime soon, for a number of reasons. All of us have been impacted by the pandemic in one way or another, and we have been forced to reassess our priorities. The ongoing crisis showcased just how important affordable and reliable electricity is, both hallmarks of the nuclear industry. As we look ahead at the challenges of the post-COVID economic recovery, of achieving greater climate ambitions at COP26 and reaching the Sustainable Development Goals, nuclear energy is perhaps more important than ever before. The Association will continue to devote every effort towards ensuring that the industry’s voice is heard loud and clear.

The pandemic recovery has inevitably been an important aspect of the Association’s work for the past year. We joined forces with the OECD Nuclear Energy Agency to explore how nuclear energy can aid the recovery. This resulted in four briefs – jobs creation, cost-effective decarbonization, financing and building resiliency with nuclear energy – highlighting the multifaceted role that nuclear energy can and should play in helping the world to get back on its feet. In July we published Building a Stronger Tomorrow: Nuclear power in the post-pandemic world, a white paper setting out how nuclear energy can play a central role in post-COVID recovery efforts by boosting economic growth in the short term, whilst also supporting, in a cost-effective manner, the development of a low-carbon, resilient and affordable energy infrastructure.

Despite the pandemic, six reactors were connected to the grid in 2020, including two in newcomer countries – Belarus (Ostrovets-1) and the United Arab Emirates (Barakah-1) – and construction started on a further six. Every reactor constructed gets us closer to fulfilling our goals of global decarbonization and economic development.

The Association continued to be at the forefront of nuclear conversations around the world, representing the industry at events throughout the year. At the inaugural World Nuclear Association Strategic eForum in September, attended by some 1350 delegates, the global industry came together virtually to discuss pressing issues such as how to maximize the benefits of nuclear and drive investments towards nuclear projects.

Beyond the pandemic response, the Association has continued to engage on issues of global impact, most notably the European Union’s Sustainable Financing Taxonomy. the end point of which is critical to ensure that nuclear energy shares the same access to affordable financing as other low-carbon energy sources. We published a white paper, The need for large and small nuclear, today and tomorrow, describing how both large-scale nuclear power plants and small modular reactors can play a significant role in the clean energy transition. Towards the end of 2020, the Association also began its preparation for COP26 in earnest, meeting with UK government ministers to reinforce the importance of nuclear energy in any deep decarbonization efforts.

World Nuclear University became virtual in 2020 to continue its mission to train the future leaders of the nuclear industry. Two World Nuclear Industry Today conferences were hosted, one in China and one in Brazil, with over 1400 participants. Furthermore, three Extended Leadership Development workshops were hosted, attracting more than 350 participants.

During the course of the year, the Association has welcomed new members covering diverse sectors, from operations to waste management and instrumentation. Our Working Groups have remained active through virtual meetings resulting in the publication of several reports on the enduring value of nuclear energy assets, transportation of uranium, harmonization of reactor design and licensing, and safety classifications.

We have also continued to build and strengthen collaborations, be it with traditional partners such as the International Atomic Energy Agency and the OECD-Nuclear Energy Agency, or newfound ones, such as the United Nations Economic Commission on Europe, the International Monetary Fund and the ASEAN Centre for Energy. Our ability to extend our reach to new audiences and new channels in 2020, despite difficult conditions, demonstrates the strength of our industry.

In September, it was announced that Agneta Rising, Director General since 2013, would be stepping down. Many of us have admired Agneta and her stalwart efforts to further the nuclear cause for many decades. We are grateful for her service to the Association and its members, and the broader nuclear industry.

Looking ahead, the Association will continue to represent the interests of the nuclear industry in the global arena, ensuring that nuclear power continues to play an integral role now and in the future. As the global community comes together to work towards delivering on our ambitions to combat climate change and achieve sustainable development, it is crucial that we stand ready to do our bit in building a stronger and cleaner tomorrow, today.
In the midst of the challenges posed by the global pandemic, the Association, with the continued support of its members, was able to take important steps to ensure nuclear energy is recognized as a uniquely clean, reliable and resilient source of electricity. Here are the key achievements for the year.

January
Working Group meetings
185 participants from 82 organizations attend Working Group meetings in London to discuss activities and publications for the year ahead.

Launch of Nuclear Essentials
A new website section geared to the general public is launched. It discusses the strengths of nuclear technologies and addresses common myths surrounding nuclear energy.

February
Harmony programme ‘Effective Safety Paradigm’ paper
The Harmony programme paper is released with the aim of shifting the focus in discussions about safety towards consideration of genuine public wellbeing.

March
International Youth Nuclear Congress
The Association participates in the Congress in Sydney, Australia, presenting the Harmony programme and leading discussions on uranium mining.

Response to the global pandemic
The Secretariat moves to remote working, ensuring continuity of all services. The Association provides up-to-date information about the industry’s response to the COVID-19 pandemic via a new information page and a new section in World Nuclear News (WNN).

April
Working Group meetings
All Working Group meetings are held virtually due to the pandemic.

Response to the European Commission’s 2030 Target Plan
The Association submits a response to the public consultation, highlighting nuclear energy’s role in ensuring that emission reduction targets are achieved in a responsible and sustainable fashion.

May
Association Board
Philippe Knoche, Chief Executive Officer, ORANO, becomes Chairman of World Nuclear Association and Kirill Komarov, First Deputy Director, ROSATOM, assumes the role of Vice Chairman.

WNU Leadership Development workshop
World Nuclear University (WNU) holds its first ever online Extended Leadership Development workshop. The workshop consisted of presentations from leaders, an introduction to the Networks for Nuclear Innovation on the IAEA CONNECT platform, and a networking experience for the global WNU Summer Institute alumni network.

June
Collaboration with the OECD-NEA
The Association collaborates with the OECD Nuclear Energy Agency (NEA) on four policy briefs examining the role of nuclear energy in aiding the economic recovery in the aftermath of the COVID-19 pandemic and Agneta Rising takes part in a series of webinars presenting the briefs.

Expanded Summary of the Nuclear Fuel Report 2019
For the first time ever, the Association releases the Expanded Summary that outlines the main conclusions of the 19th edition of The Nuclear Fuel Report and explains the key issues facing the nuclear industry.

Long-term operation position paper
The Capacity Optimization’s Long-Term Operation Task Force releases a paper entitled The Enduring Value of Nuclear Energy Assets, which describes the benefits of long-term operation of nuclear power plants, and the main considerations that need to be taken into account to ensure the longevity of nuclear operations in the years ahead.

July
White paper on nuclear’s contribution to the post-pandemic world
The Association releases a paper entitled Building a stronger tomorrow: Nuclear power in the post-pandemic world, discussing the role of nuclear energy in the post-COVID-19 environment and calling upon policy-makers to take proactive measures to support nuclear power.

Technical position paper on nuclear employment
The Economics Working Group releases a paper on Employment in the Nuclear and Wind Electricity Generating Sectors.

OECD-NEA webinar
Agneta Rising presents at the OECD-NEA webinar examining the theme of its policy brief on Creating high-value jobs in the post-COVID-19 recovery with nuclear power projects.
August

**World Nuclear Performance Report 2020**


**Appeal to Australian parliamentary inquiry**

The Association appears before a parliamentary inquiry in Victoria, Australia, aimed at lifting the nuclear prohibition in the state.

**WNU short course**

The World Nuclear Industry Today course takes place virtually in collaboration with Tsinghua University and gathers 1200 participants, the highest number ever recorded for the course.

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September

**Strategic eForum 2020**

1352 live participants join the World Nuclear Association Strategic eForum 2020, a series of high-level panel discussions focused on strengthening the nuclear industry, leading communication on key matters and bringing nuclear to the forefront in economic recovery plans.

**Industry Gamechangers**

Leaders of Working Groups meet virtually for a series of mini-panels in which they present aspects of their work where reform could help the nuclear industry achieve more rapid growth.

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October

**Sama Bilbao y León is appointed Director General**

Agneta Rising hands over the reins of World Nuclear Association to Sama Bilbao y León.

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November

**UNECE workshops on carbon neutrality**

The Association participates in a series of workshops as part of the 16th Session of the Group of Experts on Cleaner Electricity Systems on the theme of *Pursuing Carbon Neutrality to Advance the Energy Transition*, organized by UNECE.

**Power & Electricity World Africa 2020**

The Association participates in the virtual conference and underlines the importance of developing countries adopting low-carbon electricity systems to meet their increased demand for energy.

**The World Nuclear Industry Today short course in Brazil**

WNU holds *The World Nuclear Industry Today* course in Brazil with the Association for the Development of Nuclear Activities (ABDAN).

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December

**EU Sustainable Financing Taxonomy meeting**

In collaboration with FORATOM, the Association holds a virtual meeting that presents a brief on the status and global implications of the European Union’s (EU) Sustainable Finance Taxonomy, and ways in which the international nuclear community can get involved.

**UNECE Meeting of the Parties to the Espoo Convention**

The Association attends the UNECE Meeting of the Parties to the Espoo Convention that discusses and adopts the draft guidance on the applicability of the Convention to the lifetime extension of nuclear power plants.

**New Nuclear Capital 2020**

Sama participates in the New Nuclear Capital 2020 virtual conference discussing markets and financing challenges, as well as opportunities and capital requirements for advanced nuclear energy.
Representing the Global Nuclear Energy Industry

At World Nuclear Association, our mission is to promote a wider understanding of nuclear energy amongst key international stakeholders by producing authoritative information, developing common industry positions, and contributing to the energy debate.

| We are an international trade body | Membership is made up of 179 companies from 44 countries, covering all aspects of the global nuclear industry, including:  
• Major reactor vendors.  
• Nuclear utility companies (responsible for 70% of the world’s nuclear energy production).  
• Uranium mining, conversion, enrichment and fuel fabrication companies.  
• Nuclear engineering, construction and waste management companies, as well as R&D organizations.  
• Companies providing services to the nuclear industry in areas such as transport, law, insurance and finance. |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>We have a global mandate to promote nuclear energy</td>
<td>As the only international industry organization with a global mandate to promote nuclear energy and represent the companies involved in the worldwide industry, we are in a unique position to create a positive predisposition towards nuclear energy, share and advance best practices, work alongside other organizations across the globe, and provide unrivalled business opportunities for our members.</td>
</tr>
<tr>
<td>We represent the nuclear industry</td>
<td>We provide a valuable forum and commercial meeting place for our members, who are leaders and specialists in all aspects of the nuclear industry. Through our Working Groups, our members shape positions on economic, safety, environmental and technical issues. Furthermore, we represent the industry and our members in key world forums that can influence the nuclear industry’s regulatory and policy environment.</td>
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</table>
| We inform and communicate on nuclear energy | The Association represents the industry at significant global energy forums, highlighting the integral role of nuclear energy in the future clean energy mix to governments and policy-makers. By providing strong messages directly to key decision-makers, we encourage governments to include nuclear in their energy policies.  
We provide the latest and most important information about the nuclear industry. The World Nuclear Association website, with its Information Library and Reactor Database, as well as WNN, are vital resources for the industry, government, media and academia. |
| We educate future industry leaders | Our internationally recognized WNU training courses provide a stimulating, multicultural and dynamic learning experience, opening a gateway to global networking for nuclear professionals. |
| We drive global action towards the Harmony goal | Harmony is the nuclear industry’s vision for the future of electricity, with a goal of 25% of global electricity to be provided by nuclear energy before 2050. We drive global action towards reaching this goal through promotion and engagement with key stakeholders including policy-makers. |
We are proud of our strong and growing global network of member companies

Américas | 50 members
Argentina, Brazil, Canada, USA

Russia and Central Asia | 14 members
Afghanistan, Kazakhstan, Russia, Uzbekistan

Asia-Pacific | 49 members
Australia, Bangladesh, China mainland and Taiwan, India, Indonesia, Japan, Singapore, South Korea

Europe | 56 members
Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy, Luxembourg, Netherlands, Poland, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, UK

Africa and Middle East | 10 members
Egypt, Israel, Jordan, Kenya, Namibia, South Africa, United Arab Emirates

As of March 2021

179 Members
7 New members
44 Countries
Building the future of nuclear energy together

By becoming a member of World Nuclear Association, you become part of the international network that is shaping the future of nuclear energy. We provide unique business opportunities to help your company and the global nuclear industry make a difference.

Main benefits

- Support the promotion of nuclear energy and the industry’s vision in the international arena.
- Connect with industry leaders and technical experts from around the world and across the nuclear value chain.
- Raise your company’s international profile in the global nuclear market. Influence decisions on topics of strategic importance to nuclear sector development.
- Develop and share common industry positions and best practices on strategic issues.

Additional benefits

- Be represented at meetings of key international organizations, including the IEA, International Atomic Energy Agency (IAEA), OECD-NEA, UNECE, World Energy Council, Clean Energy Ministerial, UN FCCC and ASEAN Centre for Energy.
- Be part of smart and effective contributions to national dialogue through events and collaboration with industry and national associations.
- Gain immediate access to the latest and most reliable nuclear information, including the Information Library and WNN.
- Receive free printed copies of the biennial Nuclear Fuel Report, and The World Nuclear Supply Chain report.
- Gain privileged access to industry reports, presentations and contact directories through our private members website.
- Receive discounted rates for our conferences and for sponsorship and exhibition opportunities.
- Gain priority access to information on training and courses offered by WNU.

Membership is open to companies from anywhere in the world, with a stake in the future of nuclear and with business across any part of the nuclear fuel cycle. If you are interested in joining, please contact: membership@world-nuclear.org or +44 (0)20 7451 1520.
Building a stronger tomorrow with nuclear energy

Nuclear energy needs to play a vital role in a clean energy future. There is a window of opportunity for governments to invest in nuclear energy to address the immediate crisis caused by the COVID-19 pandemic, and to prevent future crises by dealing with bigger, chronic problems, such as climate change, air pollution and energy poverty. In 2020, the Association took important actions to deliver this message to key stakeholders, including policy-makers and the international media through communication, outreach and collaboration with international partners.

Advocating the role of nuclear energy in the post-pandemic recovery

Collaborating with the OECD-NEA

The Association is pleased to have collaborated with the OECD-NEA for the first time to produce four policy briefs examining the role of nuclear energy in aiding the economic recovery in the aftermath of the COVID-19 pandemic. The policy briefs covered the topics of: assuring electric system reliability and resilience, creating high-value jobs and economic development, unlocking financing for nuclear energy infrastructure, and achieving cost-effective decarbonization of electricity systems. The policy briefs highlighted nuclear energy as a key pillar of the post-pandemic recovery. They underlined that investment in nuclear energy delivers widespread economic growth, whilst also supporting the path towards a sustainable and environmentally responsible energy future.

“We must work collectively to enable new energy technologies to be brought forward and used around the world, for safety to remain high and the public and workers to be protected, and to support economic growth, prosperity and improvements in the quality of life in both OECD countries and emerging economies without sacrificing the global environment.”

William Magwood, Director General, OECD-NEA
Expanding the white paper series

In 2020, we continued our series of white papers with the goal of explaining the many benefits of nuclear energy to policy-makers to gain their support.

On 9 July the Association published a white paper entitled Building a stronger tomorrow: Nuclear power in the post-pandemic world. It discusses the important role of nuclear energy in the post-COVID-19 environment and calls upon policy-makers to take proactive measures to support the industry. The paper highlights that in the post-pandemic world, nuclear energy can help increase economic growth in the short term, whilst also supporting the development of a low-carbon, resilient and affordable electricity infrastructure. Furthermore, nuclear projects attract valuable domestic investment and in turn drive local and national economic growth, providing employment and creating long-term, high-value jobs.

The Association also published The Need for Large and Small Reactors, Today and Tomorrow, which highlights the complementary nature of large-scale nuclear and SMRs. The paper notes that large-scale nuclear reactors are the only proven low-carbon technology that can be deployed at the scale and within the timeframe required to meet the Paris Agreement goals. There are also considerable future opportunities for SMRs, which can complement large reactors by opening new markets and applications for nuclear energy.

“There are ‘shovel-ready’ nuclear projects which, with the right support, could provide immediate employment and create long-term, high-value jobs. Further projects ensuring the long-term operation of existing nuclear reactors would benefit the economy and the environment.

These projects can all play a crucial role in the post-pandemic recovery, and each and every one will create considerable societal benefits, but to ensure these are realized we must put mechanisms in place to value nuclear’s unique attributes.”

Agneta Rising,
Former Director General, World Nuclear Association
Contributing to the energy debate

The Association participated in several virtual events discussing the role of nuclear energy in the aftermath of the COVID-19 pandemic, including:

- Webinars hosted by the OECD-NEA, discussing the policy briefs to which the Association had contributed, and in particular, a webinar presenting the brief on Creating high-value jobs in the post-COVID-19 recovery with nuclear energy projects.
- A webinar hosted by the United Arab Emirates’ Federal Authority for Nuclear Regulation (FANR) on the impact of the coronavirus pandemic and the nuclear sector’s response to it.
- A webinar hosted by the Canadian Nuclear Association (CNA) on the importance of electricity for society during the pandemic and beyond.
- SIEW 2020, during which we emphasized the important role of low-carbon nuclear heat to help decarbonize other sectors of the economy beyond electricity.

- Power & Electricity World Africa 2020, in which we highlighted the importance of developing countries adopting low-carbon electricity systems to meet the increased demand for energy created by population growth. The Association called upon policy-makers to consider the many benefits of nuclear energy in any energy transition plan and to enact policies to accelerate economic recovery, achieve the United Nations Sustainable Developments goals and to limit climate change.
- New Nuclear Capital 2020, where we joined discussions about markets and financing challenges, and opportunities and capital requirements for advanced nuclear energy. Sama emphasized that the long-term operation of nuclear power plants is the lowest cost option of all forms of low-carbon generation, and that the levelized cost of electricity of new nuclear plants is competitive with other energy sources, including renewables. Furthermore, she highlighted ways in which governments could incentivize investment in public-private partnerships through direct and indirect financing.

Reaching international media

In 2020, the Association issued 16 press releases responding to industry news and key reports. For example, we promoted the OECD-NEA policy briefs, highlighting nuclear power as a key pillar of post-pandemic recovery, and reacted to the launch of the first nuclear power plants of Belarus and the United Arab Emirates.

Reacting to the publication of the 2020 edition of the IEA’s World Energy Outlook, former Director General Agneta Rising commented: “Investments into nuclear energy can also play a central role in post-COVID recovery efforts by boosting economic growth in the short term, whilst also supporting, in a cost-effective manner, the development of a resilient and affordable electricity infrastructure. Investments into nuclear energy strengthen energy security, create long-term jobs, and can contribute to the production of heat and hydrogen to decarbonize other sectors of the economy.”

We also welcomed the IEA/OECD-NEA’s Projected Costs of Electricity Generation 2020 report, a joint study of the levelized costs of generating electricity for a broad set of generation technologies. Upon its release, Sama said: “Investing in extending the life of the current fleet of nuclear reactors should be a no-brainer. First, it is the lowest cost electricity option, second it can make an immediate and significant contribution to job creation in the context of the post-COVID economic recovery, and third – and just as important – many countries will have a hard time meeting their decarbonization targets without the contribution of existing nuclear plants.”

The Association featured extensively in the global media, including The Economic Times, Energy Central News, Nuclear Future, The Times of India and Reuters. For the first time ever, former Director General Agneta Rising took part in a live BBC News interview highlighting the important role of nuclear energy in rebuilding the global economy after the COVID-19 pandemic.
Throughout 2020, the ongoing efforts of the Association helped to firmly place nuclear energy on the international clean energy agenda. Notably, this engagement led to new publications and the integration of nuclear energy into the broader UNECE sustainable energy activities. The Association also engaged in several policy activities to directly interact with newcomer countries and coordinated industry involvement in important international initiatives such as the EU Sustainable Finance Taxonomy and the UN Espoo Convention.

The Association provides regular updates on key developments and progress towards achieving the Harmony goal through its bimonthly newsletter, Harmony Goal Tracker.

Strategic cooperation

The Association continued to build cooperative partnerships with key institutions to engage and influence national and global policy-makers.

UNECE

The Association continued its close collaboration with UNECE to ensure the inclusion of nuclear energy in the organization’s programme on sustainable energy. In 2020, nuclear energy was fully integrated as part of the UNECE Carbon Neutrality project, and King Lee was elected as the Vice Chair of the Group of Experts on Cleaner Electricity Systems. This work included the organization of a workshop on nuclear energy during the 16th Session of the Group of Experts on Cleaner Electricity Systems on the theme of Pursuing Carbon Neutrality to Advance the Energy Transition. Furthermore, the Association is supporting the development of a UNECE Nuclear Energy Brief that describes the important role nuclear energy can play to support carbon neutrality. Work also started on a UNECE project for the life cycle assessment of environmental and socio-economic impacts of energy sources, intended to compare the sustainability of nuclear energy and other forms of electricity generation.

A new UNECE report on the Use of Nuclear Fuel Resources for Sustainable Development - Entry Pathways was published in March 2021. The public consultation of the document, which focuses on the role of nuclear energy resources in sustainable development, was launched at a nuclear workshop in collaboration with the UNECE Expert Group on Resource Management, as part of the UNECE’s Energy Week 2020.

The Association worked closely with FORATOM, the OECD-NEA and other key stakeholders to increase awareness and to coordinate responses to the proposed additional guidance to the UNECE Convention on Environmental Impact Assessment in a Transboundary Context (Espoo Convention). To support the initiative, we attended the UNECE Meeting of the Parties to the Espoo Convention at which the draft guidance on the applicability of the Convention to the lifetime extension of nuclear power plants was discussed and adopted.

The Association of Southeast Asian Nations (ASEAN)

In 2020, we contributed to the ASEAN 10th Annual Meeting of the Nuclear Energy Cooperation Sub-Sector Network (NEC-SSN) at which we presented the Harmony programme to the ten ASEAN member states. We formalized the collaboration with the ASEAN Centre for Energy through the signing of a Memorandum of Understanding (MOU) and contributions to the ASEAN Plan of Action for Energy Cooperation programme.

International Monetary Fund (IMF)

The Association supported the IMF in producing a working paper on assessing nuclear energy as part of a new study on economic multipliers for investment in the development of clean energy and other infrastructures.

What will power our electric future?

To meet the growing demand for sustainable energy, we will need nuclear energy to provide 25% of electricity before 2050 as part of a clean and reliable low-carbon mix. Achieving this means that nuclear generation must triple globally. The Harmony Programme is a global initiative of the nuclear industry that provides a framework for action, working with key stakeholders and engaging with international policy developments to remove barriers to growth.
Policy monitoring, analysis and engagement

In 2020, the Association built upon previous efforts to engage with policy-makers and to ensure that the views of the nuclear energy industry are addressed in key international policy and financing initiatives.

Australia government inquiry into nuclear energy
The Association made a submission to a parliamentary inquiry in Victoria, Australia, aimed at lifting the nuclear energy and uranium prohibition in the state. King Lee and Ian Hore-Lacy submitted oral evidence at a hearing, in which they highlighted that nuclear power is distinctly superior to its alternatives and is an essential low-carbon component that should be part of the state’s energy mix.

Response to the European Commission’s 2030 Target Plan
The Association submitted a response to the public consultation on the European Commission’s (EC) 2030 Target Plan by highlighting the role of nuclear energy in reducing carbon emissions. The Association is strongly in favour of the EC ambition to increase the GHG emissions reductions targets for 2030 and that any such emission reductions are done in a responsible and sustainable fashion. We noted that nuclear, alongside renewables, will be able to achieve the deep GHG emissions cuts that the EC has set out in the Target Plan, whilst also ensuring that the transition will be socially and economically acceptable.

Financing sustainable growth in the EU
The Association has taken an active role in making the international nuclear community aware of the global impacts of the EU Sustainable Finance Taxonomy and how they can influence the process.

Nuclear energy is currently not included in the Taxonomy and therefore risks being labelled as unsustainable and excluded from access to sustainable financing. This is a critical issue with major implications that go beyond the EU.

In collaboration with FORATOM, we held a virtual meeting in which we presented a brief to member organizations summarising the ongoing development of the EU Taxonomy and the Association’s efforts to date to influence this process. The Association called upon all organizations to reach out to their government representatives and engage with key stakeholders to ensure that nuclear energy is included in the EU sustainable financing frameworks.
Providing authoritative and accessible information and data

The Information Library section of the website features over 180 detailed pages covering all aspects of the nuclear industry, including current projects, future prospects, technology, policy issues and country-by-country briefings. The Library is a valuable resource for policy-makers, politicians, academics and the general public. In 2020, five new information pages were published, including Financing Nuclear Energy, Hydrogen Production and Uses, and Security of Nuclear Facilities and Material. The Information Library was accessed 4.9 million times in 2020.

The Reactor Database presents the most up-to-date information about the global nuclear fleet, featuring country pages and a global dashboard showing the most recent construction starts and grid connections, as well as highlights for the top performing reactors worldwide. Based on the IAEA’s Power Reactor Information System (PRIS) and updated daily through our own research, the database shows the most clear and up-to-date picture of the global contribution of nuclear energy.

Responding to the COVID-19 pandemic

In 2020, WNN opened a dedicated page for sharing news related to the COVID-19 pandemic, which proved to be a well-used addition on the website. In addition, we published a new information page, COVID-19 Coronavirus and Nuclear Energy.

Providing key facts and data on nuclear

The Association provides key facts and data in easy-to-read, accessible publications.

Nuclear Essentials is a section on our website that discusses the strengths of nuclear technologies and addresses common myths surrounding nuclear energy and radiation. The educational tool addresses questions such as the potential of nuclear technologies, the disposal of nuclear waste, and the role of nuclear energy in combating climate change.


Information Library page views

We provide the latest and most important information about nuclear energy to the industry, government, media and academia. Our information channels include the World Nuclear Association website with its Information Library and Reactor Database, World Nuclear News (WNN), and several social media accounts that enable us to deliver accurate information in a timely manner.
Highlighting the performance of the nuclear industry

The World Nuclear Performance Report 2020 provides an up-to-date picture of the construction and operational performance of the civil nuclear power sector across key metrics. The 2020 issue of the annual report features five case studies covering: the operation of reactors during the COVID-19 pandemic; experience of load-following operation in France; commissioning of the first AP1000 at Sanmen; and the start-up of the first nuclear reactor in the United Arab Emirates.

Reporting on nuclear energy

WNN provides comprehensive coverage of the nuclear power sector in context using background information, expert commentary and links to relevant authoritative sources. On a daily basis WNN reports free of charge dependable information that is easily accessible through its website, daily and weekly emails, as well as its social media channels. The Perspectives section of the WNN website features opinion pieces and interviews with industry leaders discussing key topics surrounding the nuclear industry.

World Nuclear Association annual follower growth (2019-2020)

WNN annual follower growth (2019-2020)
Turning Strategic Vision into Action

Every year World Nuclear Association hosts events that provide a global forum and commercial meeting place for industry representatives. In 2020, the Association held several virtual events, including the World Nuclear Association Strategic eForum 2020, Working Group meetings, Industry Gamechangers event, and a launch event for the World Nuclear Supply Chain Outlook 2040 report.

World Nuclear Association Strategic eForum 2020

The World Nuclear Association Strategic eForum 2020 was the Association’s largest virtual event of the year. It was held in September and consisted of three high-level panel discussions that focused on strengthening the nuclear industry, leading communication on key matters and bringing nuclear to the forefront of economic recovery plans. The Strategic eForum attracted 1352 live participants and 6542 views on YouTube (as of March 2020). Video interviews with industry leaders to set the scene prior to the eForum are available at www.worldnuclearforum.com.

"This is a fantastic opportunity for me to join the high-level panel to discuss the role of nuclear energy in the current circumstances. It was an honour for me to be here today with all of you, and we will continue our commitment."

Rafael Mariano Grossi, Director General, IAEA

"I would like to thank World Nuclear Association for giving me the great opportunity to participate in the high-level panel amongst such distinguished speakers; it is a great pleasure."

Jurabek Mirzamakhmudov, First Deputy Minister, Ministry of Energy of Uzbekistan and Director General of Uzatom

Percentage of participants by position across the three high-level panels

<table>
<thead>
<tr>
<th>Position</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>CEOs, VPs and Directors</td>
<td>40%</td>
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<tr>
<td>Senior Managers and Advisors</td>
<td>26%</td>
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<tr>
<td>Engineers and Technical Experts</td>
<td>17%</td>
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<tr>
<td>Academics</td>
<td>8%</td>
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<tr>
<td>Executives and Officers</td>
<td>6%</td>
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<tr>
<td>Journalists, Writers and Editors</td>
<td>3%</td>
</tr>
</tbody>
</table>

Strategic eForum key statistics

- Live participants: 1352
- Views on YouTube: 6542
Industry Gamechangers

In September, we held a virtual pre-event to the Strategic eForum entitled Industry Gamechangers that consisted of five mini-panels. During the panels, leaders of the Association’s Working Groups presented aspects of their work in areas such as reactor licensing, energy markets and safety regulation, where new ideas could help the nuclear industry achieve more rapid growth. The video recording of the event can be watched on the Association’s website.

Supply chain report launch event

The Association hosted a virtual launch event of its landmark report, The World Nuclear Supply Chain: Outlook 2040 during which industry leaders discussed the market trends and opportunities for the nuclear supply chain, including the implications associated with the commercial deployment of SMRs. The video recording is accessible on the Association’s website.

Special meeting on sustainable financing webinar

The Association, in collaboration with FORATOM, held a virtual meeting for member organizations to inform them about the development of the EU Sustainable Financing Taxonomy, share recommendations, and provide the necessary tools, including a brief on the members website. The meeting provided the latest policy updates to our members and described specific actions recommended for member organizations to help secure the inclusion of nuclear energy within the Taxonomy legislation.

Working Group meetings

The Association offers its members many opportunities to interact and collaborate. Working Group meetings take place three times a year – in January, April and September. In January 2020, 185 participants from 82 organizations gathered in London. April and September Working Group meetings were held virtually.

Scheduled events in 2021

- **13-15 April**
  World Nuclear Fuel Cycle, Virtual

- **April**
  Working Group Meetings, Virtual

- **June**
  World Nuclear Association Strategic eForum on Innovation in Nuclear, Virtual

- **6-8 September**
  Working Group Meetings, London, UK

- **8-10 September**
  World Nuclear Association Symposium, London, UK

- **October**
  World Nuclear Association Strategic eForum: The Role of Nuclear in Climate Change and Sustainability, Virtual
Industry Collaboration

Working Groups are forums for the Association’s members and invited observers to share leading practice, conduct analysis and develop consolidated positions on a wide range of important industry issues. Several groups act as the interface for industry at organizations that set the policy framework for nuclear power, such as the IAEA or the International Commission on Radiological Protection (ICRP). Each group is chaired by an expert from a member company and has a Board member assigned as a mentor. Technical and administrative support is provided by the Secretariat. Alongside the Working Groups, Advisory Groups provide guidance and support to the Secretariat on various strategic topics for the nuclear industry.

**Working Groups**

<table>
<thead>
<tr>
<th>Fuel Cycle</th>
<th>Plant Performance</th>
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<td>• Fuel Report</td>
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**Advisory Groups**

• Advisory Panel
• Communication Group

Beyond contributing to Working Groups to support the advancement of the industry as a whole, members find the participation in Working Groups very valuable to:

• Network and learn from peers.
• Obtain insights on the latest developments.
• Inform their business decisions.
• Raise their company’s profile.

While each Working Group has its own agenda, they share the following objectives:

• Find solutions to common industry issues.
• Determine market trends in their sector.
• Encourage harmonized requirements at an international level.
• Ensure that regulations enable effective nuclear operations.

During a normal year, groups meet in person two to three times with regular virtual meetings in between to implement decisions and monitor progress. The proceedings and presentations of all meetings are made available on the members’ website.
### 2020 Working Group publications

- Harmonization of Reactor Design Evaluation and Licensing: Lessons Learned from Transport
- World Nuclear Supply Chain: Outlook 2040
- Non-Linear Analysis Design Rules Part 2b: Assessment of Non-Linear Benchmark Results
- I&C Modernization: Current Status and Difficulties
- Transport of Low-Enriched Uranium
- Employment in the Nuclear and Wind Electricity Generating Sectors
- Comparison of Fatigue Life Analysis Methods: Comparison of Pressure Vessel Fatigue Codified Design Rules Based on S-N Approach
- The Nuclear Fuel Report Expanded Summary
- The Enduring Value of Nuclear Energy Assets
- International Nuclear I&C and Electrical System Standards Tables with URLs

### Stakeholders

**Industry**
- European Nuclear Installations Safety Standards Initiative (ENISS)
- European Utility Requirements (EUR) for LWR Power Plants
- FORATOM
- World Association of Nuclear Operators (WANO)
- World Energy Council
- World Nuclear Transport Institute (WNTI)

**Standards developing organizations (SDOs)**
- International Electrotechnical Commission (IEC)
- Institute of Electrical and Electronics Engineers (IEEE)
- Nuclear Quality Standards Association (NQSA)
- SDO Convergence Board

**Governments and regulators**
- International Atomic Energy Agency (IAEA)
- International Energy Agency (IEA)
- Multinational Design Evaluation Programme (MDEP)
- OECD-Nuclear Energy Agency (NEA)

**Other multilateral forums**
- Electric Power Research Institute (EPRI)
- International Commission on Radiological Protection (ICRP)
- International Nuclear Law Association (INLA)
- International Radiation Protection Association (IRPA)
- The United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)
Fuel Cycle Working Groups

Fuel Report

**Chairs:** James Neving (Exelon) and Alexander Boytsov (TENEX)
**Staff Director:** Olga Skorlyakova

- Oversees production of the Association’s biennial Nuclear Fuel Report.
- Develops projections for future nuclear capacity out to a 20-year horizon.
- Discusses classification of existing uranium mines, projects under development, and anticipated uranium supply versus demand.
- Examines key factors affecting supply and demand in the conversion, enrichment and fuel fabrication markets.
- Analyses the contribution of secondary supply to the global nuclear fuel cycle.

Sub-groups: Demand, Uranium, Conversion, Enrichment, Secondary Supply, Fabrication.

Sustainable Used Fuel Management

**Chair:** Mikhail Baryshnikov (TENEX)
**Deputy Chair:** Cecile Evans (Orano)
**Staff Director:** Se Cheon Ki

- Shapes industry positions with a view to engaging in the international debate on sustainable management strategies for the back end of the fuel cycle.
- Acts as a forum for experts to share good practices and major developments in used fuel management.

International Network for Safety Assurance of Fuel Cycle Industries (INSAF)

**Chair:** Marcos Luis Merino (ENUSA)
**Staff Director:** Stephen Tarlton

- Offers a forum for exchange of information on the safety of nuclear fuel cycle facilities, such as fuel fabrication facilities.
- Discusses safety regulation, design, control, training, and accident/event information at fuel cycle facilities.
- Gives assurance to key stakeholders.
- Provides input to the development of global nuclear safety standards.

Fuel Cycle Members’ Forum

**Chair:** Anna Bryndza (UxC)
**Staff Director:** Se Cheon Ki

The Fuel Cycle Members’ Forum (FCMF) focuses on developments in nuclear fuel and trade, typically attracting 80-90 people to its meetings. Sessions consist of formal presentations and panel discussions as well as reports from Working Groups of the Association. An advisory panel to FCMF as well as regular surveys of participants, helps set the agenda of FCMF meetings.

Transport

**Chair:** Kurtis Hinz (TAM International)
**Deputy Chair:** Tony Grange (Westinghouse)
**Staff Director:** Serge Gorlin

- Discusses issues and trends relating to the shipment of front-end nuclear material.
- Confers with the insurance community to improve options for nuclear transport.
- Develops communication materials explaining how and why we transport radioactive material.
- Gathers information from members regarding experience with carriers and ports.
- Discusses policies with intergovernmental agencies that could support more diverse shipping options.

Plant Performance Working Groups

CORDEL: Cooperation in Reactor Design Evaluation and Licensing

**Chair:** Zhou Fang (SNERDI)
**Deputy Chairs:** Franck Lignini (Framatome), Shin-Hwan Kim (KEPCO E&C), Tom Bergman (NuScale), Nawal Prinja (Jacobs)
**Staff Directors:** Byung-Chan Na (Director of CORDEL), Allan Carson, Ronan Tanguy

- Promotes cooperation with major national and international actors in standardization and harmonization.
- Enables innovation for existing nuclear power plants and new build, including SMRs and advanced reactors, through streamlined regulatory frameworks.
- Identifies key technical issues in nuclear mechanical codes and standards such as non-linear analysis methods and fatigue life analysis methods for convergence.
- Supports members in the development of new methodologies such as system-based design codes.
- Reviews and compares safety requirements interpretation and implementation in reactor designs in different countries for optimizing licensing processes.
- Analyses the current state of play and challenges on central topics related to instrumentation and control such as safety classification, defence in depth and diversity, and cybersecurity.
- Provides a voice for the industry in the revision of existing IAEA nuclear safety standards and the creation of new standards.
- Organizes events responding to members’ needs involving all the related international stakeholders.

Supply Chain

Chair: Laurent-Olivier Coudeyre (EDF)
Staff Director: tbc

• Monitors and identifies trends in the market for nuclear components and services.
• Communicates with international stakeholders on industrial developments.
• Encourages the development of supportive mechanisms for product quality assurance and continuous performance improvement.
• Supports timely, consistent and cost-effective nuclear power plant construction.
• Promotes the harmonization and streamlining of export controls on nuclear technology, goods and services.

Waste Management & Decommissioning

Chair: Mike Pieraccini (EDF)
Staff Director: Alexandre de Ruvo

• Establishes consensus regarding a more effective system of nuclear waste management and decommissioning.
• Promotes efficiency through the appropriate re-use and recycling of material, and the long-term disposal of radioactive waste from nuclear sites.
• Raises awareness through the publication of reports and papers.

Member Perspective

Alexander Bolgarov
ROSATOM

In my position as Head of the Licensing and Technical Regulation Department at Rosatom Overseas, I am responsible for the applicable rules and regulations in Rosatom’s foreign contracts, and for coordinating licensing issues for nuclear facilities.

This is important for the industry, and therefore, as a member of the CORDEL Steering Committee, I strive for Rosatom to contribute to this activity. Evidently, harmonization of codes and standards provides more options for collaborative work amongst different providers on the same project and removes difficulties during safety assessments.
Advisory Groups

Advisory Panel
Chair: Tim Gitzel ( Cameco)
Deputy Chair: Clark Beyer ( Global Fuel Solutions)
Staff Director: Virginie Ryan-Taïx

The Advisory Panel seeks to identify challenges facing the global nuclear industry, opportunities to advance its position in policy arenas, and ways to improve public acceptance of nuclear energy. It provides recommendations on how the Association should position itself in addressing these challenges.

Communication Group
Chair: Jayne Hallett (Urenco)
Deputy Chair: Adrian Bull (National Nuclear Laboratory)
Staff Director: Kristina Valen

The Communication Group shares new ideas and best practice for communication activities that help disseminate key messages to media, the public, global energy stakeholders and beyond. The group also provides support for specific projects identified as priorities for the Association. Its members are communication experts from member companies and invited representatives from other nuclear energy associations.

Cross-Cutting Working Groups

Radiological Protection
Chair: Marcel Lips
(Kernkraftwerk Gösgen-Däniken)
Deputy Chairs: Josip Zic (McMasters University) and James Owen (BHP)
Staff Director: Alexandre de Ruvo

- Participates in IAEA radiological protection-related committees and guidance document processes.
- Provides feedback on the ICRP’s reports.
- Develops positions on areas such as regulation of low-dose radiation.

Economics
Chair: Milton Caplan (MZ Consulting)
Deputy Chair: Irina Skvortsova (Rosatom)
Staff Director: Philippe Costes

- Develops a better understanding of the cost structure of nuclear plants.
- Analyses system/grid costs associated with electricity generation.
- Discusses conditions for fair competition among low-carbon electricity generation.
- Reviews changes that will have an impact on electricity markets, for example the high penetration of variable renewable generation, and the merging of energy sectors such as electricity, transportation, hydrogen and heat.
- Identifies socio-economic benefits of nuclear development.
- Analyses the full life cycle of low-carbon energy sources.

Security
Chair: tbc
Deputy Chairs: Taisiya Afanasyeva (Rosatom) and Robert Rodger (National Nuclear Laboratory)
Staff Director: tbc

- Coordinates industry views on emerging issues related to nuclear security.
- Fosters confidence in the security of nuclear facilities and of materials under industry control.
- Communicates with international stakeholders on industrial developments in the area of security.
- Represents the industry in the IAEA Nuclear Security Guidance Committee (NSGC).
- Shares and brings to the broader membership of the Association expertise and leading practice for the management of physical protection, cybersecurity, personnel reliability and security culture.

Law
Chair: Chris White (Urenco)
Deputy Chair: Elina Teplinsky (Pillsbury)
Staff Director: Philippe Costes

- Analyses developments in global nuclear liability and insurance.
- Examines challenges faced by nuclear new build.
- Reviews the impacts of nuclear cooperation agreements.
- Brings emerging legal issues to the broader Association membership’s attention.

Member Perspective
Midori Nakamura
JANUS

As a consultant of JANUS, I support interactions between the Japanese utilities and the Radiological Protection Working Group (RPWG). JANUS provides consultation services on nuclear energy and radiological protection to the Japanese nuclear industry and the government. Through participating in the RPWG last year, I was able to learn the latest activities and issues regarding radiological protection in other countries and international organizations. Participating in the RPWG is a great opportunity not only to share information but also to deliver messages from Japanese utilities to international organizations including the International Commission on Radiological Protection (ICRP) and the IAEA. The RPWG plays an important role in incorporating the positions of the nuclear industry based on practical experience and knowledge into international radiological protection standards in cooperation with international organizations.
WNU Extended Leadership Development workshop

The WNU Extended Leadership Development (ELD) workshop provides a valuable opportunity to bring Summer Institute Alumni together from around the world to discuss key global nuclear issues. The Workshop is held every two years and moves around the world to give all Alumni a chance to participate. In 2020, for the first time ever WNU held three virtual ELD workshops, with a combined participation of more than 350 Alumni. During the first workshop, industry leaders and WNU Alumni discussed the topics of waste management and the impact of the COVID-19 pandemic on the nuclear energy sector in terms of supply chain, international collaboration, contracts and jobs. The second workshop discussed the importance of effective communications and stakeholder engagement to reach the IAEA milestones in emerging nuclear countries.

WNU Short Courses: The World Nuclear Industry Today

Each year, WNU offers national courses designed for education and research centres, nuclear industry, supply chain companies, and regulatory authorities. Taught by international experts and held in various locations around the world, The World Nuclear Industry Today courses are tailored to the host country’s phase of nuclear development with the objective of offering practical knowledge, a global perspective of the industry today, and an exciting vision of the future.

In 2020, WNU was pleased to hold two courses. The first took place virtually in collaboration with Tsinghua University and gathered 1200 participants from 27 Chinese universities; the highest number ever recorded for the course. The second was held in Brazil in collaboration with the ABDAN and attracted 211 participants. The course consisted of lectures with question and answer sessions and a virtual exhibition. Those participants who attended 100% of the programme on both courses received a WNU certificate of participation.

Networks for Nuclear Innovation on IAEA’s CONNECT

In January 2020, WNU and the IAEA signed a collaboration agreement to provide a platform for WNU Summer Institute Alumni to collaborate on innovation projects. This is an extension of the WNU Summer Institute module ‘Networks for Nuclear Innovation’ (NNI), and enables discussion on a growing range of topics in the nuclear field – including radioactive waste management, effective communications, and nuclear power plant financing. NNI is hosted through the IAEA’s CONNECT platform.

Scheduled events in 2021

19-30 July 2021
Strategic Leadership Academy - Managing your nuclear power plant for the long-term, Virtual

10-23 October
Global School on Radiation Technologies in partnership with NECSA, Virtual

Today WNU collaborates with leading international organizations, including the IAEA’s Department of Nuclear Sciences and Applications, the Japan Nuclear Human Resources Development Network, Uzbekistan’s nuclear development agency UzAtom, the Latin American Network for Education in Nuclear Technology, and the Nuclear Energy Corporation of South Africa.

The internationally recognized World Nuclear University (WNU) training programmes provide a dynamic learning experience for future leaders in the areas of nuclear energy, radioisotope production and applications of ionizing radiation in medicine and industry. WNU opens a gateway to global networking, and in 2020, over 1,600 participants from over 50 countries attended its programmes.

Educating the Leaders of Tomorrow
Governance and Organization

The Director General is responsible for the running of the Association and is ultimately accountable to the Board of Management. The Board holds final approval on proposals made by the Director General, including strategic and budgetary decisions.

In May 2020, Philippe Knoche, Chief Executive Officer, ORANO, became Chairman, and Kirill Komarov, First Deputy Director, ROSATOM, took up the position of Vice-Chairman. On 19 October 2020, Sama Bilbao y León became Director General of World Nuclear Association, taking over from Agneta Rising.

The Board of Management

The Board comprises senior executives from member companies who meet twice a year and serve for two years. The Chairman of the Board is also appointed for a two-year term, after serving as Vice-Chairman in the preceding year.

The Board fulfils all statutory duties pertaining to the Association’s governance, and sets policies and strategic objectives acting on proposals from the Director General.

To ensure balance among the elected members of the Board, each of the three categories of institutional membership – suppliers, generators and general – must be represented by at least two members.

Board members act as mentors for the various Working Groups. This enables the Board to monitor the activities of the groups and to shape their overall agenda.

In 2020, due to the COVID-19 pandemic the Board moved its activities to a digital mode with three resolutions being passed. The Board met once virtually on 6 October.

There are also two Board sub-committees, whose members serve two-year terms and report directly to the Chairman of the Board:

• The Governance and Nominations sub-committee oversees appointments to the Board and handles Director General and senior staff succession planning. This sub-committee met physically and held several in-person interviews to complete the selection process of the new Director General.

• The Audit and Finance sub-committee carries out regular reviews of the financial health of the Association, and holds in-depth dialogue with the auditor during the preparation of the annual accounts.

Membership meetings

There are two annual meetings where members are updated on the operations of the Association and have the opportunity to ask the Chairman and Director General questions. At the Annual General Meeting (AGM), the accounts are presented for approval and any fee changes or alterations to the fee structure are put to a vote. Immediately after the AGM, the Members Council takes place, during which significant developments in the Association are presented to the member company representatives in attendance.

Audit

In March 2020, an independent review of the 2019 Annual Report and Accounts was carried out by BDO LLP.

BDO concluded that the 2019 Annual Report and Accounts give a true and fair view of the state of the Association’s affairs as of 31 December 2019 in accordance with UK Generally Accepted Accounting Practice (GAAP) and they were subsequently approved and signed off by the Chairman and Board of Management on 25 May 2020.

The 2019 Annual Report and Accounts were adopted at the AGM held virtually on 6 October 2020.
Board members  As of March 2021

Chairman

Philippe Knoche
Chief Executive Officer, ORANO

Kirill Komarov
First Deputy Chief Executive Officer for Corporate Development & International Business, ROSATOM

Vice-Chairman

Junjing An
General Manager, CGN

George Borovas
Lawyer, Hunton Andrews Kurth LLP

Elmer Dyke
Senior Vice President & Chief Commercial Officer, Cameco Corporation

Tim Gitzel
President & Chief Executive Officer, Cameco Corporation

Leonam dos Santos Guimarães
Director for Planning, Management and Environment, Betonuclear

Elmer Dyke
Senior Vice President & Chief Commercial Officer, Eletronuclear

Tim Gitzel
President & Chief Executive Officer, Cameco Corporation

Leonam dos Santos Guimarães
Director for Planning, Management and Environment, Betonuclear

Bryan Hanson
Executive Vice President & Chief Generation Officer, Exelon Generation

Mingang Huang
Chief Economist, China National Nuclear Corporation

Sang-Don Kim
Executive Vice President, Korea Hydro & Nuclear Power Co., Ltd

Shigenori Makino
Managing Executive Officer, TEPCO

Takuma Nagase
Managing Director, UNIPER

Karl Johan Svenningsson
Managing Director, UNIPER

Emmanuelle Verger
Senior Vice President – Nuclear Fuel Division, EDF

Jay Wileman
President & Chief Executive Officer, Hitachi Nuclear Energy

Ljudmila Zaitmskaya
General Director, JSC Technoexport

Mingguang Zheng
Senior Vice President, SNPTC

Bohdan Zronek
Chief Nuclear Officer, ČEZ

Ex-officio

Ingemar Enkvist
Chief Executive Officer, World Association of Nuclear Operators

Hans Bile
Director General Emeritus, International Atomic Energy Agency

Gerard Granckey
Former Chief Executive Officer, Cameco

Honorary

Hans Bile
Director General Emeritus, International Atomic Energy Agency

Gerard Granckey
Former Chief Executive Officer, Cameco

Chairman

Vice-Chairman

Ex-officio

Honorary

Hans Bile
Director General Emeritus, International Atomic Energy Agency

Gerard Granckey
Former Chief Executive Officer, Cameco

Chairman

Vice-Chairman

Ex-officio

Honorary
The Secretariat

World Nuclear Association is made up of an international Secretariat of 34 people, covering a broad range of expertise and experience, who are responsible for coordinating the work that the Association does on behalf of its members. Most of the Secretariat work from the offices in London, with representatives also based in India, China and Australia. In 2020, the Association took the immediate necessary measures in response to the COVID-19 pandemic to protect the Secretariat and reduce transmission of the virus by adopting a work-from-home policy for all employees and holding all meetings and events virtually. Despite the challenges posed by the pandemic, the Secretariat continued to work hard to ensure that nuclear energy’s significant contribution to the world’s sustainable future is appropriately recognized.

The Secretariat is led by Director General Sama Bilbao y León. It is composed of four departments – Industry Cooperation; Communication; Finance and Administration; and World Nuclear University – and one project team for the Harmony programme.

Greg Kaser

The Association mourns the loss of our dear colleague Greg Kaser, who passed away following a short illness after contracting COVID-19. Greg was a Senior Project Manager for World Nuclear Association with responsibility for supply chain and security issues. In his nearly 10 years with the Association, he oversaw four editions of its World Nuclear Supply Chain report, as well as publications on export controls, counterfeit, fraudulent and suspect items, and new build lesson-learning.

Greg’s kindness, generosity, breadth of knowledge and incisive intelligence will be sorely missed by the Association and the global nuclear community.
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<td>JSC Rusatom Service</td>
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<td>Kansai Electric Power Co. Inc.</td>
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<td>KAZATOMPROM</td>
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<td>KEPCO Nuclear Fuel Co. Ltd.</td>
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<td>Kernkraftwerk Gösgen-Däniken AG</td>
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<td>King's College London (Project Alpha)</td>
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MZ Consulting Inc.
NAC International
Namibian Uranium Association
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New York Nuclear Corporation
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