

Losing Focus in a Disordered World





The NTI Nuclear Security Index

The 2020 Nuclear Threat Initiative (NTI) Nuclear Security Index (NTI Index) assesses the security of some of the deadliest materials in the world—highly enriched uranium (HEU) and plutonium—against theft and the security of nuclear facilities against sabotage. Stolen HEU or plutonium could be used to build a nuclear bomb; the sabotage of a nuclear facility could result in a dangerous release of radiation.

The NTI Index uses public information to track country-level progress on nuclear security and recommends actions for governments to protect nuclear materials and facilities and to strengthen the global nuclear security architecture. Developed with the Economist Intelligence Unit (EIU) and informed by an international panel of respected nuclear security experts, the NTI Index has been released biennially since 2012. The NTI Index includes two theft rankings and one sabotage ranking:

- Theft: Secure Materials—A ranking of 22 countries with 1 kilogram or more of weaponsusable nuclear materials to assess actions related to securing those materials against theft
- Theft: Support Global Efforts—A ranking of 153 countries and Taiwan with less than 1 kilogram of or no weapons-usable nuclear materials to assess actions related to supporting global nuclear security efforts
- Sabotage: Protect Facilities—A ranking of 46 countries and Taiwan with nuclear facilities, such as nuclear power reactors and research reactors, to assess actions related to protecting those facilities against sabotage

For the first time, the 2020 NTI Index is accompanied by a separate **Radioactive Source Security Assessment** that assesses the national policies, commitments, and actions to secure radioactive sources and prevent a dirty bomb in 175 countries and Taiwan. This new assessment does not score or rank countries.

All data are available in Excel models and can be downloaded at www.ntiindex.org.



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Foreword

The world today faces complex and potentially catastrophic threats: the slow burn, quite literally, of climate change; a naturally occurring or manufactured virus that kills millions of people worldwide; a radiological dirty bomb explosion that renders a city center uninhabitable for years; a nuclear weapons exchange that could incinerate entire countries; or the detonation of a terrorist nuclear bomb built from stolen nuclear material that kills thousands of people in an instant. All would create additional, enormous consequences for our environment, global economies, and humanity as a whole.

The COVID-19 pandemic offers a window into the grave implications of poor planning to prevent a crisis from emerging and then escalating. Preventing a naturally occurring virus is tough, but there have been countless missed opportunities to slow the spread and stem the damage—and the unfolding disaster has offered a powerful lesson in the importance of prevention and preparation, coordination and cooperation, accountability and action—all grounded in attention to the science.

These fundamentals are the foundation for the NTI Nuclear Security Index, a biennial ranking of nuclear security conditions worldwide that recommends steps that countries and the global community should take to strengthen security of nuclear materials and nuclear facilities and evaluates progress against those steps. Born out of concern the world is not doing enough to prevent a terrorist attack with almost incomprehensible consequences, the NTI Index has tracked progress and provided guidance on nuclear security since 2012.

This year, for the first time, the results show that progress to secure nuclear materials and facilities has slowed significantly. This is an alarming development for a host of reasons. It comes at a time when the global risk environment is characterized by growing disorder and disruption and the international community's ability to manage cross-border threats is taxed. Disinformation and disruptive technologies have added to governments' challenges, and

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NTI Vice President Laura S. H. Holgate (left) and Senior Director Samantha Neakrase (right) lead discussions with the International Panel of Experts.

intensified competition among major nuclear powers—particularly the United States, Russia, and China—has strained international institutions, treaties, and norms. Constant vigilance by nuclear operators, governments, and international organizations will be needed to keep pace with the threats in this increasingly dangerous risk environment.

The key finding of this year's NTI Index may be an outcome of the end of the series of Nuclear Security Summits—head-of-state events begun in 2010 and held every two years through 2016 that brought high-level attention to nuclear dangers, promoted efforts to reduce them, and resulted in important progress toward securing materials and facilities against nuclear terrorism and other threats.

Security improvements captured by the NTI Index between 2012 and 2018 reflected the work of the summits. Since the summit process ended in 2016, no comparable, cooperative global effort has emerged to replace the summits' role in galvanizing countries to take bold, ambitious actions—even as the terrorist threat and new concerns such as cyber attacks on nuclear facilities, continue to mount. Now, in the first reflection of the post-summit nuclear security landscape, it is no surprise that progress has slowed.

Given the challenging security backdrop for this key finding, it is more important than ever to identify

shortfalls and to call for governments, industry, and the international community to once again step up their efforts to prevent a catastrophic attack or act of sabotage that could further shake global foundations.

We all know this work can be successful. In 2012, when the NTI Index was launched, 32 countries had 1 kilogram or more of weapons-usable nuclear materials; today, that number is 22, and the countries that have addressed the threat in the most permanent ways possible—by eliminating or disposing of all of their weapons-usable nuclear materials—are a model for the world. Scores of countries also have taken important steps to mitigate the threat of theft or sabotage by improving physical security around materials and facilities, tightening security during transport of materials, expanding cybersecurity practices, adopting new insider threat-prevention measures, and more.

No one should conclude, however, that progress has slowed because much of the work is completed. That is simply not the case. As the data show, large gaps remain across all the categories and indicators we examine—and the report shows major weaknesses in key areas such as insider threat prevention, security culture at facilities, and cybersecurity. More rigorous threat assessments, personnel vetting, and new regulations, among other steps, must be put in place before extremists exploit weaknesses in these areas and do real damage. Continuous improvement—even among high-performing

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countries—must also be a priority, not only to keep pace with, but to stay ahead of, evolving threats.

Thousands of radiological sources held in every country offer extremists another path to cause chaos—and in conjunction with the NTI Index, we are releasing a first-of-its-kind Radioactive Source Security Assessment that examines national policies and actions to secure these potentially dangerous sources. Typically used for research, medical, industrial, or agricultural purposes, the sources often are poorly secured and housed in areas open to the public, such as hospitals and universities. In the hands of an extremist, a radiological source can be used to build and detonate a radiation-spewing dirty bomb in the heart of a city.

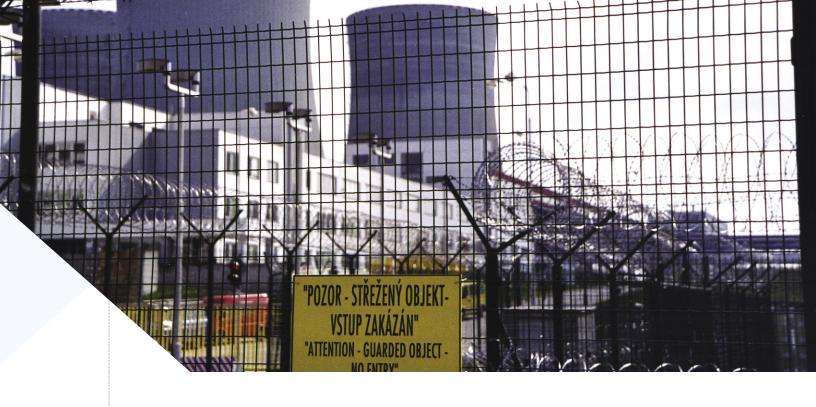
Unlike weapons-usable nuclear materials, these sources don't pose an existential threat, and a dirty bomb would not cause mass casualties or injuries—but cleanup would be enormously costly, environmental and psychological consequences would be significant, and the area around a detonation would be uninhabitable for years.

The good news is that the risk can be eliminated by replacing the dangerous sources with equally effective alternative technologies. NTI has worked closely with

New York City, Atlanta, and the state of California—along with Central Asia and the United Kingdom—to do just that. We hope the new assessment included in these pages will build increased awareness of the risk, start a broader discussion about alternatives, and highlight best practices for keeping sources secure.

As we've learned through the COVID-19 pandemic, global security is only as strong as the weakest link. When it comes to existential threats—and even to those that could do just serious damage—every country can do more and must do more. Leaders around the world have a responsibility to use all the tools at their disposal, from the adoption and enforcement of new security requirements to coordinating and cooperating with other countries, to protect against nuclear and radiological terrorism so that we never have to face the terrible consequences.

Ernest J. Moniz Co-Chair and Chief Executive Officer Nuclear Threat Initiative



Executive Summary

Losing Focus in a Disordered World

rogress on global nuclear security has slowed significantly over the past two years, despite sizeable gaps that continue to leave nuclear materials and facilities vulnerable to theft and acts of sabotage. The 2020 NTI Nuclear Security Index finds that although a great deal of work remains to protect materials and facilities against increasingly capable extremist groups, the rate of improvement to national regulatory structures and the global nuclear security architecture has declined since 2018. This reverses a trend of substantial improvements made between 2012 and 2018, and it comes at a time when prospects for improving efforts to prevent nuclear terrorism are complicated by growing global disorder and disruption.

The decline highlighted in the 2020 NTI Index suggests that without the driving force of the Nuclear Security Summits, which ended in 2016, or similar high-level events, attention to nuclear security has waned. This is a particularly dangerous development when terrorist capabilities and growing cyber threats contribute to a more complicated and unpredictable environment and geopolitical tensions and events such as the COVID-19 pandemic are challenging cooperation and exposing the limits of how countries cope with cross-border threats.

Recognized as the premier resource and tool for tracking progress on global nuclear security, the NTI Index assesses nuclear security conditions in 175 countries and Taiwan. It assesses (a) actions to secure nuclear materials in the 22 countries that have 1 kilogram or more of weapons-usable nuclear materials, the highly enriched uranium and plutonium that can be stolen and used to build nuclear bombs; (b) actions to protect nuclear facilities in 46 countries and Taiwan that have nuclear facilities at which an act of sabotage could result in a dangerous

Progress on global nuclear security has slowed significantly over the past two years, despite sizeable gaps that continue to leave nuclear materials and facilities vulnerable to theft and acts of sabotage.

To address the overall finding that progress has slowed significantly, countries must strengthen and sustain political attention on nuclear security to drive progress on adopting nuclear security regulations and on building a more effective global nuclear security architecture.

release of radiation; and (c) actions in 153 countries and Taiwan that have less than 1 kilogram of or no weapons-usable nuclear materials to determine how well they support global nuclear security efforts.

NTI Index results and recommendations, released biennially since 2012 and using publicly available information, help guide governments and industry on how best to develop and implement security measures around some of the world's deadliest materials. For each of the five editions of the Index, NTI and its partner, the Economist Intelligence Unit (EIU), have updated the categories and indicators to reflect changing global threat levels, risks posed by evolving practices and technologies, and input from an international panel of nuclear security experts. For the 2020 NTI Index, updates were made across all rankings to account for progress made over the past decade and the availability of new tools to address risks.

For the first time, NTI this year is releasing a separate Radioactive Source Security Assessment in conjunction with the NTI Index. The first-of-its-kind assessment, which does not rank or score countries, evaluates national policies, commitments, and actions taken in 175 countries and Taiwan to prevent the theft of radioactive materials that could be used to build dirty bombs. The key finding: the international architecture for radiological security is extremely weak, and thousands of radioactive sources remain vulnerable to theft from the hospitals, university labs, and industrial sites where they are used

for a variety of beneficial purposes. Although the use of a radiological dirty bomb would not have consequences approaching the scale of those caused by a nuclear detonation, the likelihood that one will be detonated is far greater and the consequences would still be significant: environmental and psychological damage, enormous cleanup costs, and the inability to use the area around the explosion for years.

TOP NTI INDEX FINDINGS AND RECOMMENDATIONS

Australia ranks first for its security practices for the fifth time among countries with weapons-usable nuclear materials and for the third time in the sabotage ranking. In the ranking for countries without materials, New Zealand and Sweden tie for first. Most improved among countries with materials in 2020 is Pakistan, which was credited with adopting new on-site physical protection and cybersecurity regulations, improving insider threat prevention measures, and more.

To address the overall finding that progress has slowed significantly, countries must strengthen and sustain political attention on nuclear security to drive progress on adopting nuclear security regulations and on building a more effective global nuclear security architecture. One way to do this is to send high-level delegations to upcoming conferences and meetings to make commitments and to report on progress.

The NTI Index includes nine additional high-level findings and recommendations.

- No countries have eliminated their stocks of weapons-usable nuclear materials since 2016, and the number of countries with those materials has plateaued. Decreases in quantities of materials also are slowing. Countries with materials should revive efforts to reduce stocks of highly enriched uranium and plutonium and should focus on long-term, sustainable stewardship of materials.
- Regulatory requirements for nuclear security are not comprehensive, with significant weaknesses in key areas such as insider threat prevention, security culture, and cybersecurity. Countries must strengthen these regimes; theft of nuclear materials or sabotage of a nuclear facility anywhere in the world would have significant implications for all countries, including potential public backlash against the use of peaceful nuclear technology, such as nuclear energy.
- Countries do not have adequate measures in place to address the human factor of nuclear security. Countries must strengthen insider threat-prevention measures and security culture.

- Cybersecurity regulations are slowly adapting to the growing cyber threat to nuclear facilities, but the adoption of these requirements continues to trail the urgency of the threat. Given the rapid evolution of cyber threats, countries must strengthen cybersecurity at nuclear facilities including through (a) integrating physical protection and cybersecurity; (b) protecting critical digital assets, such as systems related to physical protection, control, accounting, and safety; and (c) building greater awareness of cyber threats among facility personnel.
- Despite continued actions to strengthen the global nuclear security architecture, the rate of improvement has slowed and significant gaps in the architecture remain. Countries must work to strengthen and sustain political attention on nuclear security, the International Atomic Energy Agency (IAEA) and the United Nations should work to achieve universalization of key legal instruments governing nuclear security, and countries should implement their treaty obligations and participate in voluntary initiatives, among other steps.

KEY FACTS ABOUT THE NTI INDEX



Serves as
an objective
assessment of
nuclear security
conditions
around the world



Data gathered from publicly available information



Researched by the Economist Intelligence Unit



Advised by an international panel of experts



Government input provided through data confirmation

- Sufficiently engaged in efforts to bolster the global nuclear security architecture. To address regional disparities and conflicting priorities, the IAEA should work with countries to build a stronger, more inclusive narrative around nuclear security, stressing that nuclear security is critical to maintaining public support for peaceful uses of nuclear technology.
- The IAEA still lacks the political and financial support it needs to fulfill its nuclear security mission. Countries should increase support for the IAEA by contributing to its Nuclear Security Fund and supporting and participating in IAEA activities, and the IAEA should work to build awareness of those activities and of how it has helped countries benefit from peaceful nuclear use.
- With the exception of publishing regulations, countries' actions to build confidence in nuclear security through information sharing and peer review remain limited. Countries should increase transparency and confidence by publishing annual nuclear security reports, by making public declarations about their progress on nuclear security, and by participating regularly in peer reviews, among other steps.
- More countries are interested in acquiring nuclear technology for research or energy purposes, but nine countries planning new nuclear power programs have varying levels of preparedness to take on nuclear security responsibilities. To be responsible stewards, countries considering new nuclear energy capabilities should establish legal and regulatory frameworks that address insider threat prevention, cybersecurity, security culture, physical protection, control and accounting procedures, and response capabilities.

TOP RADIOACTIVE SOURCE SECURITY ASSESSMENT FINDINGS AND RECOMMENDATIONS

Countries in the Radioactive Source Security Assessment did not receive scores or ranks. To address the overall finding that the international architecture for radiological security is extremely weak, countries should bolster the global radiological architecture by ratifying key international agreements, by making political commitments to the IAEA Code of Conduct and related Supplemental Guidance, and by participating in voluntary initiatives.

The Radioactive Source Security Assessment includes four additional high-level findings and recommendations.

- Most countries do not have the national regulatory regimes in place to secure and control radioactive sources and protect them from theft and unauthorized use. Countries should establish the national legal framework necessary to effectively regulate and control radioactive sources, including an oversight body and requirements to secure radioactive sources.
- Most countries do not have adequate regulatory requirements for tracking and controlling the movement of radioactive sources, both nationally and transnationally, so that only authorized recipients receive and possess radioactive sources. Countries should put in place national measures to track and control the movement of radioactive sources domestically and internationally, to prevent them from falling into the wrong hands.

- Countries are ill-equipped to regulate and control radioactive sources in their country at all stages of their life cycles, from production, manufacture, use, and transport to disposition. Countries should establish regulatory measures and practices to track materials throughout their life cycles and follow relevant IAEA guidance on end-of-life management.
- Very few countries have made public commitments to replace high-activity radioactive sources with alternative technology, and there is varying capacity around the world to implement and sustain the technology's use. Countries should commit to replacing high-activity radioactive sources with alternative technologies where possible. They should work to identify and address challenges to adopting alternative technology and to share information that can help other countries adopt these technologies, if they have the capacity to do so.

This report highlights key trends in global nuclear security and offers a host of recommendations for improvements at the country level and for ways to build a more effective global nuclear security architecture. It also provides rankings, country-level data, and detailed findings from the new Radioactive Source Security Assessment.

More information, including data to download in Excel models, is available at **www.ntiindex.org**.



Results Tables

The tables on the following pages show the high-level results of the three NTI Index rankings and the Radioactive Source Security Assessment. The NTI Index results tables show overall and category ranks and scores. The Radioactive Source Security Assessment does not include a rank or score. Instead, the percentage of countries and areas receiving each answer choice is shown. More detailed results are available in Excel models, available at **www.ntiindex.org**.



| OVERALL SCORE | | | | | 1. QUANTITIES AND SITES | | | | 2. SECURITY AND CONTROL MEASURES | | | | | |
|---------------|----------------|---------|---------------|-----------------|-------------------------|---------------|-------------|----------------|----------------------------------|----------|----------------|----------|----------------|-----------------|
| Rank / 2 | 22 Scor | e / 100 | Chang 2018 | e since 2012 | Rank / 2 | 22 5 | Score / 100 | Change 2018 | e since 2012 | Rank / 2 | 22 Sco | re / 100 | Change 2018 | e since 2012 |
| 1 | Australia | 93 | +1 | +15 | 1 | Switzerland | 95 | 0 | +20 | 1 | United Kingdom | 96 | 0 | +15 |
| =2 | Canada | 87 | 0 | +20 | 2 | Australia | 94 | 0 | -1 | 2 | United States | 89 | 0 | +6 |
| =2 | Switzerland | 87 | +3 | +12 | =3 | Iran | 89 | 0 | 0 | 3 | Canada | 88 | 0 | +24 |
| 4 | Germany | 85 | +3 | +16 | =3 | Norway | 89 | 0 | -5 | 4 | Australia | 87 | 0 | +25 |
| =5 | Netherlands | 82 | +1 | +12 | =5 | Belarus | 75 | 0 | -6 | =5 | China | 80 | 0 | +39 |
| =5 | Norway | 82 | +4 | +11 | =5 | South Africa | 75 | 0 | -6 | =5 | Germany | 80 | 0 | +25 |
| 7 | Belgium | 80 | +3 | +17 | =7 | Belgium | 72 | 0 | +11 | 7 | Italy | 76 | 0 | +23 |
| 8 | Japan | 77 | -1 | +27 | =7 | Canada | 72 | 0 | +5 | 8 | Belgium | 75 | +8 | +30 |
| =9 | United Kingdom | 76 | 0 | +8 | =7 | Germany | 72 | 0 | +5 | =9 | Japan | 74 | 0 | +19 |
| =9 | United States | 76 | 0 | +10 | =7 | Kazakhstan | 72 | 0 | +5 | =9 | Netherlands | 74 | 0 | +23 |
| 11 | Italy | 75 | 0 | +15 | =11 | Italy | 70 | 0 | -6 | =11 | Belarus | 72 | 0 | +18 |
| =12 | France | 69 | -1 | +10 | =11 | Netherlands | 70 | 0 | -5 | =11 | Switzerland | 72 | 0 | +6 |
| =12 | Kazakhstan | 69 | +1 | +14 | 13 | Israel | 47 | 0 | 0 | 13 | Russia | 70 | 0 | +17 |
| =14 | Belarus | 65 | 0 | +6 | 14 | Japan | 42 | -6 | +18 | 14 | France | 64 | 0 | +4 |
| =14 | China | 65 | 0 | +20 | =15 | China | 33 | 0 | 0 | =15 | Kazakhstan | 57 | 0 | +14 |
| =16 | Israel | 57 | 0 | +10 | =15 | France | 33 | 0 | -11 | =15 | Pakistan | 57 | +25 | +41 |
| =16 | Russia | 57 | +1 | +6 | =15 | North Korea | 33 | 0 | -18 | 17 | Norway | 47 | 0 | +9 |
| =16 | South Africa | 57 | +1 | 0 | 18 | United States | 25 | 0 | 0 | =18 | India | 44 | 0 | +6 |
| 19 | Pakistan | 47 | +7 | +17 | =19 | India | 19 | 0 | 0 | =18 | Israel | 44 | 0 | 0 |
| 20 | India | 41 | 0 | +8 | =19 | Pakistan | 19 | 0 | 0 | 20 | South Africa | 36 | 0 | +4 |
| 21 | Iran | 33 | 0 | +2 | =19 | Russia | 19 | 0 | -6 | 21 | North Korea | 27 | 0 | 0 |
| 22 | North Korea | 19 | +1 | -3 | 22 | United Kingdo | om 14 | 0 | 0 | 22 | Iran | 26 | 0 | 0 |

Overall and category scores and ranks for 2020 are shown.

All countries and areas are scored 0-100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.



| 3. GLOBAL NORMS | | | | | 4. DOMESTIC COMMITMENTS AND CAPACITY | | | | 5. RISK ENVIRONMENT | | | | | |
|-----------------|----------------|-----------|---------------|-----------------|--------------------------------------|---------------|-------------|---------------|---------------------|----------|---------------|-------------|---------------|-----------------|
| Rank / 2 | 22 Sc | ore / 100 | Chang 2018 | e since 2012 | Rank / 2 | 22 5 | Score / 100 | Chang 2018 | e since 2012 | Rank / : | 22 S | Score / 100 | Chang 2018 | e since 2012 |
| =1 | Australia | 96 | +4 | +33 | =1 | Australia | 100 | 0 | +11 | 1 | Norway | 94 | +2 | +3 |
| =1 | Japan | 96 | +2 | +31 | =1 | Canada | 100 | 0 | +27 | 2 | Switzerland | 88 | 0 | -4 |
| =1 | United States | 96 | -2 | +34 | =1 | France | 100 | 0 | +22 | 3 | Australia | 87 | 0 | -2 |
| 4 | Norway | 94 | +4 | +31 | =1 | Germany | 100 | +11 | +11 | 4 | Canada | 83 | 0 | +4 |
| 5 | Belgium | 93 | 0 | +30 | =1 | Italy | 100 | 0 | +22 | =5 | Germany | 81 | +3 | +13 |
| =6 | Canada | 92 | 0 | +34 | =1 | Japan | 100 | 0 | +69 | =5 | Netherlands | 81 | +2 | +2 |
| =6 | Germany | 92 | 0 | +22 | =1 | Netherlands | 100 | 0 | +16 | 7 | Japan | 75 | 0 | 0 |
| =6 | United Kingdom | າ 92 | 0 | +18 | =1 | Norway | 100 | +11 | +16 | 8 | United Kingdo | m 73 | +5 | +10 |
| 9 | Switzerland | 87 | +4 | +29 | =1 | Russia | 100 | 0 | +5 | 9 | Belgium | 71 | +2 | -7 |
| =10 | Kazakhstan | 85 | 0 | +26 | =1 | Switzerland | 100 | +11 | +11 | 10 | France | 66 | -6 | +3 |
| =10 | Netherlands | 85 | 0 | +15 | =1 | United Kingdo | m 100 | 0 | 0 | 11 | United States | 63 | +4 | -10 |
| 12 | France | 84 | 0 | +31 | =1 | United States | 100 | 0 | +22 | 12 | South Africa | 53 | +4 | +3 |
| 13 | Italy | 83 | 0 | +31 | =13 | Israel | 95 | 0 | +27 | =13 | Belarus | 48 | -2 | -1 |
| 14 | China | 72 | -2 | +23 | =13 | Kazakhstan | 95 | 0 | +16 | =13 | Israel | 48 | -1 | +5 |
| 15 | India | 67 | 0 | +28 | =15 | Belgium | 89 | 0 | +11 | 15 | China | 44 | +4 | +18 |
| 16 | Russia | 56 | +2 | +4 | =15 | China | 89 | 0 | +15 | 16 | Italy | 41 | +4 | +1 |
| 17 | Israel | 54 | -3 | +21 | =15 | Pakistan | 89 | 0 | +16 | 17 | India | 39 | +1 | +7 |
| 18 | South Africa | 52 | +2 | 0 | =18 | Belarus | 78 | 0 | +5 | 18 | Kazakhstan | 36 | +6 | +7 |
| 19 | Belarus | 47 | 0 | +10 | =18 | South Africa | 78 | 0 | 0 | 19 | North Korea | 34 | +5 | +3 |
| 20 | Pakistan | 45 | +1 | +9 | 20 | India | 36 | 0 | 0 | 20 | Russia | 29 | +3 | +5 |
| 21 | Iran | 27 | 0 | +9 | 21 | Iran | 5 | 0 | 0 | 21 | Iran | 18 | -1 | -1 |
| 22 | North Korea | 0 | 0 | 0 | 22 | North Korea | 0 | 0 | 0 | 22 | Pakistan | 16 | 0 | +9 |

Overall and category scores and ranks for 2020 are shown.

All countries and areas are scored 0-100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.

THEFT: SUPPORT GLOBAL EFFORTS

| VERA | ALL SCORE | | | |
|---------|----------------------|-------------|------|---------|
| | | | - | e since |
| nk / 15 | | Score / 100 | 2018 | 2012 |
| =1 | New Zealand | 98 | 0 | +18 |
| =1 | Sweden | 98 | +1 | +16 |
| 3 | Finland | 95 | -2 | +13 |
| =4 | Denmark | 92 | +3 | +9 |
| =4 | South Korea | 92 | +1 | +20 |
| =6 | Hungary | 90 | -1 | +17 |
| =6 | Spain | 90 | 0 | +14 |
| =8 | Czech Republic | 89 | 0 | +14 |
| =8 | Poland | 89 | -2 | +18 |
| 10 | Singapore | 88 | 0 | +37 |
| 11 | Lithuania | 87 | +4 | +15 |
| 12 | United Arab Emirates | 86 | -3 | +14 |
| =13 | Chile | 85 | 0 | +22 |
| =13 | Romania | 85 | 0 | +16 |
| =15 | Jordan | 84 | 0 | +25 |
| =15 | Mexico | 84 | 0 | +25 |
| 17 | Slovenia | 83 | -2 | +7 |
| 18 | Luxembourg | 80 | 0 | +7 |
| 19 | Austria | 79 | +1 | +3 |
| =20 | Armenia | 78 | 0 | +17 |
| =20 | Slovakia | 78 | +1 | +5 |
| =20 | Ukraine | 78 | -1 | +12 |
| =23 | Argentina | 77 | -3 | +18 |
| =23 | Estonia | 77 | +3 | +9 |
| 25 | Philippines | 76 | -2 | +24 |
| =26 | Indonesia | 75 | +1 | +26 |
| =26 | Latvia | 75 | +2 | +6 |
| =26 | Nigeria | 75 | 0 | +36 |
| =29 | Croatia | 74 | +3 | +13 |
| =29 | Morocco | 74 | -1 | +22 |
| =31 | Iceland | 73 | +1 | +3 |
| =31 | Ireland | 73 | -2 | 0 |
| =31 | Malta | 73 | -1 | +12 |
| =34 | Cyprus | 72 | +2 | +5 |
| =34 | Georgia | 72 | +4 | +32 |
| =36 | Bulgaria | 71 | +3 | +3 |
| =36 | Cuba | 71 | +2 | +5 |
| =36 | Paraguay | 71 | 0 | +20 |
| =36 | Portugal | 71 | -2 | +1 |

| 3. GL(| OBAL NORMS | | | | | | | |
|--------------|------------------------|-------------|------|------|--|--|--|--|
| Change since | | | | | | | | |
| Rank / 15 | 4 | Score / 100 | 2018 | 2012 | | | | |
| =1 | Finland | 100 | 0 | +26 | | | | |
| =1 | Georgia | 100 | +6 | +49 | | | | |
| =1 | Hungary | 100 | 0 | +43 | | | | |
| =1 | Mexico | 100 | 0 | +49 | | | | |
| =1 | New Zealand | 100 | 0 | +37 | | | | |
| =1 | Poland | 100 | 0 | +37 | | | | |
| =1 | South Korea | 100 | 0 | +37 | | | | |
| =1 | Spain | 100 | 0 | +32 | | | | |
| =1 | Sweden | 100 | 0 | +37 | | | | |
| =1 | Ukraine | 100 | 0 | +32 | | | | |
| =11 | Czech Republic | 94 | 0 | +31 | | | | |
| =11 | Denmark | 94 | +5 | +26 | | | | |
| =11 | Jordan | 94 | 0 | +37 | | | | |
| =11 | Lithuania | 94 | +6 | +31 | | | | |
| =11 | Morocco | 94 | 0 | +43 | | | | |
| =11 | Nigeria | 94 | 0 | +60 | | | | |
| =11 | Romania | 94 | 0 | +31 | | | | |
| =18 | Armenia | 89 | 0 | +32 | | | | |
| =18 | Chile | 89 | 0 | +38 | | | | |
| =20 | Indonesia | 88 | +6 | +48 | | | | |
| =20 | United Arab Emirates | 88 | -6 | +20 | | | | |
| 22 | Philippines | 83 | -6 | +32 | | | | |
| =23 | Thailand | 82 | +17 | +48 | | | | |
| =23 | Vietnam | 82 | 0 | +59 | | | | |
| 25 | Singapore | 77 | 0 | +43 | | | | |
| =26 | Argentina | 76 | -6 | +25 | | | | |
| =26 | Slovenia | 76 | -5 | +13 | | | | |
| 28 | Turkey | 70 | -6 | +30 | | | | |
| 29 | Algeria | 69 | -6 | +23 | | | | |
| =30 | Bosnia and Herzegovina | 68 | 0 | +22 | | | | |
| =30 | Croatia | 68 | +5 | +11 | | | | |
| =30 | Paraguay | 68 | 0 | +28 | | | | |
| =30 | Slovakia | 68 | 0 | +11 | | | | |
| 34 | Malaysia | 65 | 0 | +31 | | | | |
| 35 | Luxembourg | 64 | 0 | +18 | | | | |
| =36 | Austria | 63 | 0 | +6 | | | | |
| =36 | Azerbaijan | 63 | +6 | +17 | | | | |
| =36 | Bahrain | 63 | 0 | +12 | | | | |
| =36 | Bulgaria | 63 | +6 | +6 | | | | |
| | | | | | | | | |

Overall and category scores and ranks for 2020 are shown. All countries and areas are scored 0-100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.

| DO | MESTIC COMMITMENTS | AND CAPAC | ITY | |
|------------------|------------------------|-------------|---------------|-----------------|
| k / 15 | -4 | Score / 100 | Chang 2018 | e since 2012 |
| , 13 =1 | Albania | 100 | 0 | 0 |
| - =1 | Argentina | 100 | 0 | +9 |
| =1 | Armenia | 100 | 0 | +9 |
| =1 | Austria | 100 | 0 | 0 |
| =1 | Azerbaijan | 100 | 0 | +66 |
| =1 | Bosnia and Herzegovina | 100 | 0 | +9 |
| =1 | Brazil | 100 | 0 | 0 |
| =1 | Bulgaria | 100 | 0 | 0 |
| =1 | Croatia | 100 | 0 | +26 |
| =1 | Cuba | 100 | 0 | 0 |
| =1 | Cyprus | 100 | 0 | 0 |
| =1 | Czech Republic | 100 | 0 | 0 |
| =1 | Denmark | 100 | 0 | 0 |
| =1 | Estonia | 100 | 0 | 0 |
| =1 | Finland | 100 | 0 | 0 |
| =1 | Ghana | 100 | 0 | +34 |
| =1 | Greece | 100 | 0 | 0 |
| =1 | Hungary | 100 | 0 | 0 |
| =1 | Iceland | 100 | 0 | 0 |
| =1 | Ireland | 100 | 0 | 0 |
| =1 | Jamaica | 100 | 0 | +26 |
| =1 | Jordan | 100 | 0 | +17 |
| =1 | Latvia | 100 | 0 | 0 |
| =1 | Lithuania | 100 | 0 | 0 |
| =1 | Luxembourg | 100 | 0 | 0 |
| =1 | Macedonia | 100 | 0 | +17 |
| =1 | Malta | 100 | 0 | +26 |
| =1 | Mexico | 100 | 0 | +9 |
| =1 | Moldova | 100 | 0 | +26 |
| =1 | New Zealand | 100 | 0 | 0 |
| =1 | Philippines | 100 | 0 | +26 |
| =1 | Poland | 100 | 0 | +9 |
| =1 | Portugal | 100 | 0 | 0 |
| =1 | Romania | 100 | 0 | 0 |
| =1 | Serbia | 100 | 0 | 0 |
| =1 | Singapore | 100 | 0 | +57 |
| =1 | Slovakia | 100 | 0 | 0 |
| =1 | Slovenia | 100 | 0 | 0 |
| =1 | South Korea | 100 | 0 | 0 |
| 30dili Nolea 100 | 100 | , | U | U |

Overall and category scores and ranks for 2020 are shown.

All countries and areas are scored 0–100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.

| | | | Chang | e since |
|----------|------------------------|-------------|-------|---------|
| ank / 15 | 4 | Score / 100 | 2018 | 2012 |
| 40 | Turkey | 70 | -4 | +15 |
| =41 | Bosnia and Herzegovina | 69 | +1 | +12 |
| =41 | Ghana | 69 | -1 | +17 |
| =43 | Azerbaijan | 68 | +3 | +30 |
| =43 | Moldova | 68 | 0 | +12 |
| 45 | Greece | 67 | +1 | 0 |
| =46 | Brazil | 66 | +2 | +6 |
| =46 | Montenegro | 66 | +2 | +12 |
| =46 | Serbia | 66 | +3 | +7 |
| =46 | Uruguay | 66 | +1 | +12 |
| =50 | Albania | 65 | -6 | +9 |
| =50 | Algeria | 65 | -3 | +12 |
| =50 | Jamaica | 65 | +3 | +14 |
| =50 | Macedonia | 65 | 0 | +11 |
| =50 | Uzbekistan | 65 | +4 | +18 |
| 55 | Costa Rica | 64 | -2 | +8 |
| =56 | Namibia | 63 | -3 | +13 |
| =56 | Peru | 63 | -1 | +12 |
| =56 | Qatar | 63 | +3 | +11 |
| =59 | Botswana | 62 | -2 | +11 |
| =59 | Mongolia | 62 | +1 | +5 |
| =59 | Senegal | 62 | +4 | +18 |
| =59 | Taiwan | 62 | +1 | +10 |
| 63 | Bahrain | 61 | 0 | +8 |
| =64 | Seychelles | 60 | +3 | +4 |
| =64 | Vietnam | 60 | 0 | +32 |
| =66 | Malaysia | 59 | 0 | +24 |
| =66 | Saudi Arabia | 59 | 0 | +28 |
| =66 | Tajikistan | 59 | 0 | +10 |
| =69 | Kuwait | 58 | +1 | +30 |
| =69 | Mauritania | 58 | -2 | +9 |
| =71 | Burkina Faso | 57 | +2 | +13 |
| =71 | Ecuador | 57 | -1 | +13 |
| =71 | Mali | 57 | +1 | +8 |
| =71 | Niger | 57 | 0 | +8 |
| =75 | Côte d'Ivoire | 56 | 0 | +37 |
| =75 | Gabon | 56 | 0 | +5 |
| =75 | Kenya | 56 | +1 | +1 |
| - | Thailand | 56 | +9 | +25 |

| 3. GL0 | DBAL NORMS | | | |
|-----------|--------------------|-------------|-------|---------|
| | | | Chang | e since |
| Rank / 15 | 4 | Score / 100 | 2018 | 2012 |
| =36 | Cyprus | 63 | +6 | +17 |
| =36 | Estonia | 63 | +6 | +12 |
| =36 | Latvia | 63 | 0 | +6 |
| =36 | Libya | 63 | +6 | +12 |
| =36 | Moldova | 63 | 0 | +6 |
| =36 | Montenegro | 63 | +6 | +23 |
| =36 | Panama | 63 | +12 | +12 |
| =36 | Uzbekistan | 63 | +6 | +17 |
| 48 | Ireland | 58 | -5 | +1 |
| =49 | Albania | 57 | -11 | +17 |
| =49 | Bangladesh | 57 | +6 | +11 |
| =49 | Brazil | 57 | +6 | +17 |
| =49 | Cambodia | 57 | +11 | +17 |
| =49 | Cuba | 57 | +6 | +17 |
| =49 | Ghana | 57 | 0 | +11 |
| =49 | Greece | 57 | 0 | 0 |
| =49 | Iraq | 57 | -6 | +40 |
| =49 | Kenya | 57 | 0 | 0 |
| =49 | Kyrgyz Republic | 57 | 0 | +23 |
| =49 | Macedonia | 57 | 0 | +11 |
| =49 | Madagascar | 57 | 0 | +17 |
| =49 | Malta | 57 | 0 | +11 |
| =49 | Peru | 57 | 0 | +17 |
| =49 | Portugal | 57 | -6 | +6 |
| =49 | Saudi Arabia | 57 | 0 | +11 |
| =49 | Senegal | 57 | +6 | +28 |
| =49 | Serbia | 57 | +6 | +11 |
| =67 | Colombia | 52 | 0 | +12 |
| =67 | Qatar | 52 | 0 | +23 |
| =69 | Côte d'Ivoire | 51 | 0 | +34 |
| =69 | Dominican Republic | 51 | 0 | +5 |
| =69 | Gabon | 51 | 0 | +5 |
| =69 | Kuwait | 51 | 0 | +17 |
| =69 | Mali | 51 | 0 | +5 |
| =69 | Mauritania | 51 | 0 | 0 |
| =69 | Niger | 51 | 0 | +5 |
| =69 | Tajikistan | 51 | 0 | +11 |
| =69 | Turkmenistan | 51 | 0 | 0 |
| =69 | Uruguay | 51 | 0 | +17 |
| | | | | |

Overall and category scores and ranks for 2020 are shown. All countries and areas are scored 0-100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.

| DO | MESTIC COMMITMENT | S AND CAPAC | CITY | |
|----------|----------------------|-------------|-------|---------|
| | | | Chang | e since |
| ank / 15 | | Score / 100 | 2018 | 2012 |
| =1 | Spain | 100 | 0 | 0 |
| =1 | Sweden | 100 | 0 | 0 |
| =1 | Taiwan | 100 | 0 | +17 |
| =1 | Tajikistan | 100 | 0 | +17 |
| =1 | Turkey | 100 | 0 | +9 |
| =1 | Ukraine | 100 | 0 | +9 |
| =1 | United Arab Emirates | 100 | 0 | +9 |
| =1 | Uzbekistan | 100 | 0 | +26 |
| =48 | Burkina Faso | 91 | 0 | +17 |
| =48 | Chile | 91 | 0 | +17 |
| =48 | Congo (Dem. Rep. of) | 91 | 0 | 0 |
| =48 | Costa Rica | 91 | 0 | +17 |
| =48 | Ecuador | 91 | 0 | +17 |
| =48 | Guatemala | 91 | 0 | 0 |
| =48 | Mali | 91 | 0 | +17 |
| =48 | Mauritania | 91 | 0 | +34 |
| =48 | Mongolia | 91 | 0 | +8 |
| =48 | Montenegro | 91 | 0 | 0 |
| =48 | Namibia | 91 | 0 | +8 |
| =48 | Nicaragua | 91 | 0 | +8 |
| =48 | Nigeria | 91 | 0 | +25 |
| -48 | Paraguay | 91 | 0 | +17 |
| =48 | Peru | 91 | 0 | +8 |
| =48 | Uganda | 91 | 0 | +25 |
| =64 | Algeria | 83 | 0 | +9 |
| -64 | Botswana | 83 | 0 | +17 |
| =64 | Côte d'Ivoire | 83 | 0 | +74 |
| =64 | Indonesia | 83 | 0 | +9 |
| =64 | Kenya | 83 | 0 | +9 |
| =64 | Niger | 83 | 0 | +9 |
| =64 | Tanzania | 83 | 0 | +9 |
| =64 | Tunisia | 83 | 0 | +9 |
| =64 | Uruguay | 83 | 0 | +9 |
| =73 | Afghanistan | 74 | 0 | 0 |
| =73 | Bahrain | 74 | 0 | +8 |
| =73 | Bangladesh | 74 | 0 | -9 |
| =73 | Cameroon | 74 | 0 | +8 |
| =73 | Cape Verde | 74 | 0 | +17 |
| =73 | Gabon | 74 | 0 | +8 |
| -/3 | Cubon | 74 | U | 10 |

Overall and category scores and ranks for 2020 are shown.

All countries and areas are scored 0-100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.

| OVERA | LL SCORE | | | |
|-----------|----------------------|-------------|---------------|-----------------|
| Rank / 15 | 4 | Score / 100 | Chang 2018 | e since 2012 |
| =79 | Bangladesh | 55 | +2 | +4 |
| =79 | Tunisia | 55 | -1 | +4 |
| 81 | Guatemala | 53 | +1 | +4 |
| 82 | Nicaragua | 52 | 0 | +4 |
| =83 | Panama | 51 | +6 | +10 |
| =83 | Tanzania | 51 | +1 | +6 |
| =85 | Congo (Dem. Rep. of) | 50 | +2 | +1 |
| =85 | Uganda | 50 | -4 | +8 |
| =87 | Cameroon | 49 | +1 | +10 |
| =87 | Rwanda | 49 | +2 | +3 |
| 89 | Cape Verde | 48 | +1 | +5 |
| =90 | Colombia | 46 | 0 | +12 |
| =90 | Kyrgyz Republic | 46 | 0 | +18 |
| =92 | Dominican Republic | 44 | 0 | +10 |
| =92 | Lebanon | 44 | 0 | -3 |
| =92 | Madagascar | 44 | 0 | +10 |
| =92 | Mozambique | 44 | 0 | +1 |
| 96 | Afghanistan | 43 | 0 | +5 |
| =97 | Malawi | 42 | 0 | +19 |
| =97 | Zambia | 42 | +5 | +20 |
| =99 | El Salvador | 41 | 0 | +5 |
| =99 | Swaziland | 41 | +1 | +15 |
| =101 | Cambodia | 40 | +6 | +10 |
| =101 | Lesotho | 40 | -2 | +9 |
| =101 | Mauritius | 40 | 0 | +6 |
| =101 | Turkmenistan | 40 | -1 | +2 |
| 105 | Iraq | 39 | -6 | +24 |
| =106 | Bolivia | 38 | +3 | +11 |
| =106 | Djibouti | 38 | +1 | +17 |
| 108 | Sri Lanka | 37 | +1 | +6 |
| 109 | Benin | 36 | +13 | +19 |
| =110 | Fiji | 35 | +1 | -1 |
| =110 | Honduras | 35 | +1 | +10 |
| =110 | Libya | 35 | +3 | +2 |
| 113 | Oman | 33 | +1 | +8 |
| =114 | Bahamas | 32 | +1 | 0 |
| =114 | Barbados | 32 | +2 | +4 |
| =116 | Egypt | 30 | -3 | +11 |
| =116 | Ethiopia | 30 | 0 | +10 |
| | | | | |

| <u> </u> | | | | |
|-----------|--------------------------|-------------|-------|---------|
| 3. GL0 | DBAL NORMS | | | |
| | | | Chang | e since |
| Rank / 15 | 4 | Score / 100 | 2018 | 2012 |
| =69 | Zambia | 51 | +11 | +34 |
| =80 | Afghanistan | 46 | 0 | +12 |
| =80 | Benin | 46 | +29 | +35 |
| =80 | Burkina Faso | 46 | +6 | +12 |
| =80 | Cameroon | 46 | 0 | +18 |
| =80 | Costa Rica | 46 | -5 | +12 |
| =80 | Ecuador | 46 | 0 | +12 |
| =80 | El Salvador | 46 | 0 | +6 |
| =80 | Iceland | 46 | 0 | +6 |
| =80 | Jamaica | 46 | 0 | +6 |
| =80 | Lesotho | 46 | -5 | +6 |
| =80 | Malawi | 46 | 0 | +17 |
| =80 | Mongolia | 46 | 0 | 0 |
| =80 | Namibia | 46 | -5 | +23 |
| =80 | Swaziland | 46 | 0 | +12 |
| =80 | Tunisia | 46 | 0 | +6 |
| =95 | Bolivia | 40 | +6 | +17 |
| =95 | Botswana | 40 | -6 | +11 |
| =95 | Central African Republic | 40 | 0 | 0 |
| =95 | Congo (Dem. Rep. of) | 40 | 0 | 0 |
| =95 | Djibouti | 40 | 0 | +17 |
| =95 | Fiji | 40 | 0 | 0 |
| =95 | Guatemala | 40 | 0 | +6 |
| =95 | Lebanon | 40 | 0 | 0 |
| =95 | Nicaragua | 40 | 0 | +6 |
| =95 | Seychelles | 40 | 0 | 0 |
| =105 | Comoros | 34 | 0 | 0 |
| =105 | Honduras | 34 | 0 | +6 |
| =105 | Mozambique | 34 | 0 | 0 |
| =105 | Myanmar | 34 | 0 | +23 |
| =105 | Oman | 34 | 0 | +6 |
| =105 | Sri Lanka | 34 | 0 | 0 |
| =105 | Sudan | 34 | +6 | +11 |
| =105 | Tanzania | 34 | 0 | +5 |
| =105 | Togo | 34 | 0 | +11 |
| =105 | Uganda | 34 | -6 | +5 |
| =105 | Yemen | 34 | 0 | +11 |
| =116 | Burundi | 29 | 0 | +6 |
| =116 | Chad | 29 | +12 | +12 |
| | | | | |

Overall and category scores and ranks for 2020 are shown. All countries and areas are scored 0-100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.

| Kuwait 74 0 +65 =78 Indones Lebanon 74 0 0 =78 Tanzan Morocco 74 0 +8 =81 Benin Qatar 74 0 0 =81 Monter Rwanda 74 0 0 =81 Timor-I Saudi Arabia 74 0 +65 =84 Brazil Senegal 74 0 48 =84 Guinea Seychelles 74 0 0 =86 El Salva Mozambique 66 0 +9 =86 Moldov Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 91 Azerbai Malawi 43 0 +26 =91 Liberia Bolivia 34 0 +8 | | | | | |
|--|---------|--------------------|-------------|-------|---------|
| Addition Score / 100 2018 2012 Rank / 154 Kuwait 74 0 +65 =78 Indonesia Lebanon 74 0 0 =78 Tanzania Morocco 74 0 +8 =81 Benin Qatar 74 0 0 =81 Timor-Lest Saudi Arabia 74 0 +65 =84 Brazil Senegal 74 0 +8 =84 Guinea-Bis Seychelles 74 0 0 =86 El Salvado Mozambique 66 0 +9 =86 Moldova Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +26 =90 Albania Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +26 =91 Liberia Bolivia 34 0 < | 4. DO | MESTIC COMMITMENTS | AND CAPAC | CITY | |
| Kuwait 74 0 +65 =78 Indonesia Lebanon 74 0 0 =78 Tanzania Morocco 74 0 +8 =81 Benin Qatar 74 0 0 =81 Montenegro Rwanda 74 0 +65 =84 Brazil Senegal 74 0 +8 =84 Guinea-Bissis Sepchelles 74 0 0 =86 El Salvador Mozambique 66 0 +9 =86 Moldova Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +26 =91 Liberia Bolivia 34 0 | | | | Chang | e since |
| Lebanon | nk / 15 | 4 | Score / 100 | 2018 | 2012 |
| Morocco 74 0 +8 =81 Benin Qatar 74 0 0 =81 Montenegro Rwanda 74 0 0 =81 Timor-Leste Saudi Arabia 74 0 +8 =84 Brazil Senegal 74 0 0 +8 El Salvador Seychelles 74 0 0 -86 El Salvador Mozambique 66 0 +9 -86 Moldova Ethiopia 43 0 +26 -86 Peru Georgia 43 0 +26 -90 Albania Kyrgyz Republic 43 0 +26 -91 Azerbaijan Malawi 43 0 +26 -91 Lazerbaijan Malawi 43 0 +43 -91 Bolivia Bolivia 34 0 +8 -91 Niger Colombia 34 0 | =73 | Kuwait | 74 | 0 | +65 |
| Qatar 74 0 0 =81 Montenegro Rwanda 74 0 0 =81 Timor-Leste Saudi Arabia 74 0 +65 =84 Brazil Senegal 74 0 48 =84 Guinea-Bissau Seychelles 74 0 0 =86 El Salvador Mozambique 66 0 +9 =86 Moldova Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +26 90 Albania Iraq 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 91 Azerbaijan Malawi 43 0 +26 91 Liberia Bolivia 34 0 +8 91 Liberia Bolivia 34 0 +8 91 Niger Colombia 34 0 < | =73 | Lebanon | 74 | 0 | 0 |
| Rwanda 74 0 0 =81 Timor-Leste Saudi Arabia 74 0 +65 =84 Brazil Senegal 74 0 +8 =84 Guinea-Bissau Seychelles 74 0 0 =86 El Salvador Mozambique 66 0 +9 =86 Moldova Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +17 =86 Serbia Iraq 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +26 =91 Azerbaijan Malawi 43 0 +43 =91 Bolivia Malawi 43 0 +26 =91 Liberia Bolivia 34 0 +8 =91 Tunisia Djibouti 34 0 | 73 | Morocco | 74 | 0 | +8 |
| Saudi Arabia 74 0 +65 =84 Brazil Senegal 74 0 +8 =84 Guinea-Bissau Seychelles 74 0 0 =86 El Salvador Mozambique 66 0 +9 =86 Moldova Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +17 =86 Serbia Iraq 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +26 =91 Azerbaijan Malawi 43 0 +43 =91 Bolivia Malawi 43 0 +43 =91 Bolivia Malaysia 43 0 +8 =91 Tuisia Dijbouti 34 0 +8 =91 Tuisia Djibouti 34 0 | =73 | Qatar | 74 | 0 | 0 |
| Senegal 74 0 +8 =84 Guinea-Bissau Seychelles 74 0 0 =86 El Salvador Mozambique 66 0 +9 =86 Moldova Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 91 Azerbaijan Malawi 43 0 +26 91 Liberia Bolivia 34 0 +26 91 Liberia Bolivia 34 0 +8 91 Tunisia Dijbouti 34 0 +8 991 Tunisia Djibouti 34 0 +8 996 Djibouti Dominican Republic 34 0 +17 99 Algeria Honduras 34 | 73 | Rwanda | 74 | 0 | 0 |
| Seychelles 74 0 0 =86 El Salvador Mozambique 66 0 +9 =86 Moldova Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +17 =86 Serbia Iraq 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +26 =91 Bolivia Malaysia 43 0 +26 =91 Liberia Bolivia 34 0 +8 =91 Niger Colombia 34 0 +8 =91 Tunisia Dijbouti 34 0 +8 =91 Tunisia Dijbouti 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =99 Algeria Honduras 34 0 | 73 | Saudi Arabia | 74 | 0 | +65 |
| Mozambique 66 0 +9 =86 Moldova Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +17 =86 Serbia Iraq 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +43 =91 Bolivia Malawi 43 0 +26 =91 Liberia Bolivia 34 0 +26 =91 Liberia Bolivia 34 0 +8 =91 Niger Colombia 34 0 +8 =91 Tunisia Djibouti 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =99 Algeria Madagascar 34 0 | 73 | Senegal | 74 | 0 | +8 |
| Ethiopia 43 0 +26 =86 Peru Georgia 43 0 +17 =86 Serbia Iraq 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +43 =91 Bolivia Malaysia 43 0 +26 =91 Liberia Bolivia 34 0 +8 =91 Niger Colombia 34 0 +8 =91 Tunisia Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =99 Algeria Honduras 34 0 +17 =99 Honduras Madagascar 34 0 +17 =99 Mozambique Sierra Leone 34 | 3 | Seychelles | 74 | 0 | 0 |
| Georgia 43 0 +17 =86 Serbia Iraq 43 0 +26 90 Albania Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +43 =91 Bolivia Malaysia 43 0 +26 =91 Liberia Bolivia 34 0 +8 =91 Niger Colombia 34 0 +8 =91 Tunisia Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =99 Algeria Honduras 34 0 +17 =99 Honduras Madagascar 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =99 Mozambique Sierra Leone 34< | 7 | Mozambique | 66 | 0 | +9 |
| Iraq | 88 | Ethiopia | 43 | 0 | +26 |
| Kyrgyz Republic 43 0 +26 =91 Azerbaijan Malawi 43 0 +43 =91 Bolivia Malaysia 43 0 +26 =91 Liberia Bolivia 34 0 +8 =91 Niger Colombia 34 0 +8 =91 Tunisia Djibouti 34 0 +8 =96 Djibouti Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +8 =96 Laos Honduras 34 0 +17 =99 Algeria Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Morocco Panama 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =104 Burkina Faso Sri Lanka 34 <td>3</td> <td>Georgia</td> <td>43</td> <td>0</td> <td>+17</td> | 3 | Georgia | 43 | 0 | +17 |
| Malawi 43 0 +43 =91 Bolivia Malaysia 43 0 +26 =91 Liberia Bolivia 34 0 +8 =91 Niger Colombia 34 0 +8 =91 Tunisia Dijbouti 34 0 +25 =96 Djibouti Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =99 Algeria Honduras 34 0 +17 =99 Honduras Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka | | Iraq | 43 | 0 | +26 |
| Malaysia 43 0 +26 =91 Liberia Bolivia 34 0 +8 =91 Niger Colombia 34 0 +8 =91 Tunisia Djibouti 34 0 +25 =96 Djibouti Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +17 =96 Ethiopia Honduras 34 0 +17 =99 Algeria Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Morocco Panama 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Macedonia Turkmenistan | 8 | Kyrgyz Republic | 43 | 0 | +26 |
| Bolivia 34 0 +8 =91 Niger Colombia 34 0 +8 =91 Tunisia Djibouti 34 0 +25 =96 Djibouti Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +8 =96 Laos Honduras 34 0 +17 =99 Algeria Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Morocco Panama 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Burkina Faso Syria 34 0 +17 =104 Macedonia Turkmenistan < | 88 | Malawi | 43 | 0 | +43 |
| Colombia 34 0 +8 =91 Tunisia Djibouti 34 0 +25 =96 Djibouti Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +8 =96 Laos Honduras 34 0 +17 =99 Algeria Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Morocco Panama 34 0 +8 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Burkina Faso Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Mexico Vietnam | 8 | Malaysia | 43 | 0 | +26 |
| Djibouti 34 0 +25 =96 Djibouti Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +8 =96 Laos Honduras 34 0 +17 =99 Algeria Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Morocco Panama 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Burkina Faso Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 +17 =104 Mexico Vietnam | 94 | Bolivia | 34 | 0 | +8 |
| Dominican Republic 34 0 +17 =96 Ethiopia El Salvador 34 0 +8 =96 Laos Honduras 34 0 +17 =99 Algeria Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Morocco Panama 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Ecuador Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =111 Angola Central African | 4 | Colombia | 34 | 0 | +8 |
| El Salvador 34 0 +8 =96 Laos | 94 | Djibouti | 34 | 0 | +25 |
| Honduras 34 0 +17 =99 Algeria Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Morocco Panama 34 0 +17 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Ecuador Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 +8 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egyp | 4 | Dominican Republic | 34 | 0 | +17 |
| Madagascar 34 0 +17 =99 Honduras Mauritius 34 0 +17 =99 Morocco Panama 34 0 +8 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Ecuador Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 +8 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +9 =111 Togo Laos | 94 | El Salvador | 34 | 0 | +8 |
| Mauritius 34 0 +17 =99 Morocco Panama 34 0 +8 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Ecuador Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 0 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =111 Angola Central African Republic 26 0 +9 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Turkey Laos 26 0 +9 =111 Turkey Lesotho 26 0 +9 =115 Armenia Myanmar 26 <td>94</td> <td>Honduras</td> <td>34</td> <td>0</td> <td>+17</td> | 94 | Honduras | 34 | 0 | +17 |
| Panama 34 0 +8 =99 Mozambique Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Ecuador Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 0 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar | 4 | Madagascar | 34 | 0 | +17 |
| Sierra Leone 34 0 +17 =99 Nepal Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Ecuador Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 0 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Turkey Laos 26 0 +9 =111 Armenia Myanmar 26 0 +9 =115 Comoros | 4 | Mauritius | 34 | 0 | +17 |
| Solomon Islands 34 0 +17 =104 Burkina Faso Sri Lanka 34 0 +17 =104 Ecuador Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 0 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =111 Angola Cambodia 26 0 +9 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 4 | Panama | 34 | 0 | +8 |
| Sri Lanka 34 0 +17 =104 Ecuador Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 0 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Turkey Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | | Sierra Leone | 34 | 0 | +17 |
| Syria 34 0 +17 =104 Macedonia Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 0 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Turkey Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | | Solomon Islands | 34 | 0 | +17 |
| Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 0 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Turkey Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 1 | Sri Lanka | 34 | 0 | +17 |
| Turkmenistan 34 0 +8 =104 Malawi Venezuela 34 0 0 =104 Mexico Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | | Syria | 34 | 0 | +17 |
| Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | | • | 34 | 0 | +8 |
| Vietnam 34 0 +17 =104 Papua New Guinea Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 4 | Venezuela | 34 | 0 | 0 |
| Barbados 26 0 +9 =104 Sierra Leone Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 94 | | | | |
| Cambodia 26 0 +9 =111 Angola Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 10 | | | | |
| Central African Republic 26 0 +17 =111 Côte d'Ivoire Egypt 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 0 | | | | |
| Egypt 26 0 +9 =111 Togo Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 0 | | | | |
| Laos 26 0 +9 =111 Turkey Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 0 | | | | |
| Lesotho 26 0 +26 =115 Armenia Myanmar 26 0 +9 =115 Comoros | 0 | | | | |
| Myanmar 26 0 +9 =115 Comoros | 0 | | | | |
| - | 10 | | | | |
| SWAZIIANO ZD U +ZD =115 GDIDEA | 0 | Swaziland | 26 | 0 | +26 |

Overall and category scores and ranks for 2020 are shown.

All countries and areas are scored 0-100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.

| OVERA | LL SCORE | | | |
|-----------|--------------------------|-------------|---------------|-----------------|
| Rank / 15 | 4 | Score / 100 | Chang 2018 | e since 2012 |
| =116 | Myanmar | 30 | -1 | +15 |
| =116 | Solomon Islands | 30 | +1 | +7 |
| =120 | Comoros | 29 | 0 | +4 |
| =120 | Sierra Leone | 29 | 0 | +10 |
| =120 | Togo | 29 | +1 | +10 |
| =123 | Central African Republic | 28 | 0 | +2 |
| =123 | Trinidad and Tobago | 28 | +1 | +2 |
| =125 | Laos | 27 | -1 | +5 |
| =125 | Tonga | 27 | +1 | +1 |
| =127 | Bhutan | 26 | 0 | +4 |
| =127 | Brunei | 26 | 0 | -1 |
| =127 | Guyana | 26 | +1 | +2 |
| =127 | Sudan | 26 | +2 | +8 |
| 131 | Vanuatu | 25 | +1 | +7 |
| =132 | Nepal | 24 | +2 | +8 |
| =132 | Venezuela | 24 | +2 | +2 |
| =134 | Burundi | 23 | 0 | +7 |
| =134 | Congo (Brazzaville) | 23 | -1 | +15 |
| =134 | Guinea-Bissau | 23 | +1 | +4 |
| =137 | Gambia | 22 | +3 | +6 |
| =137 | Haiti | 22 | 0 | +3 |
| =137 | Liberia | 22 | +9 | +11 |
| =140 | Belize | 21 | +1 | 0 |
| =140 | Guinea | 21 | +1 | +8 |
| =140 | São Tomé and Príncipe | 21 | +3 | +10 |
| =140 | Syria | 21 | +6 | +10 |
| =140 | Timor-Leste | 21 | -1 | +7 |
| =145 | Chad | 20 | +5 | +8 |
| =145 | Samoa | 20 | +2 | +2 |
| =145 | Suriname | 20 | 0 | 0 |
| =145 | Zimbabwe | 20 | +2 | +9 |
| 149 | Yemen | 18 | 0 | +4 |
| =150 | Angola | 16 | 0 | -1 |
| =150 | Papua New Guinea | 16 | 0 | +3 |
| 152 | Equatorial Guinea | 15 | +1 | +3 |
| 153 | Eritrea | 13 | +1 | +1 |
| 154 | Somalia | 7 | +3 | +6 |

| 3. GL | OBAL NORMS | | | |
|-----------|-----------------------|-------------|-------|---------|
| | | | Chang | e since |
| Rank / 15 | 4 | Score / 100 | 2018 | 2012 |
| =116 | Rwanda | 29 | 0 | 0 |
| =116 | Taiwan | 29 | 0 | +6 |
| 120 | Mauritius | 28 | 0 | 0 |
| =121 | Bahamas | 23 | 0 | 0 |
| =121 | Congo (Brazzaville) | 23 | 0 | +23 |
| =121 | Egypt | 23 | -5 | +12 |
| =121 | Guinea-Bissau | 23 | 0 | 0 |
| =121 | Guyana | 23 | 0 | 0 |
| =121 | Haiti | 23 | 0 | 0 |
| =121 | Laos | 23 | 0 | +6 |
| =121 | Liberia | 23 | +17 | +17 |
| =121 | Nepal | 23 | +6 | +6 |
| =121 | Sierra Leone | 23 | 0 | +6 |
| =121 | Syria | 23 | +12 | +12 |
| =121 | Venezuela | 23 | +6 | +12 |
| =121 | Zimbabwe | 23 | +6 | +12 |
| =134 | Cape Verde | 17 | 0 | 0 |
| =134 | Ethiopia | 17 | 0 | +6 |
| =134 | Guinea | 17 | 0 | 0 |
| =134 | Solomon Islands | 17 | 0 | 0 |
| =134 | Tonga | 17 | 0 | 0 |
| =134 | Trinidad and Tobago | 17 | 0 | 0 |
| =140 | Angola | 11 | 0 | 0 |
| =140 | Equatorial Guinea | 11 | 0 | 0 |
| =140 | Gambia | 11 | 0 | 0 |
| =140 | Vanuatu | 11 | 0 | +11 |
| =144 | Barbados | 6 | 0 | 0 |
| =144 | Belize | 6 | 0 | 0 |
| =144 | Bhutan | 6 | 0 | 0 |
| =144 | Brunei | 6 | 0 | 0 |
| =144 | Papua New Guinea | 6 | 0 | 0 |
| =144 | Samoa | 6 | 0 | 0 |
| =144 | São Tomé and Príncipe | 6 | 0 | 0 |
| =144 | Somalia | 6 | +6 | +6 |
| =144 | Suriname | 6 | 0 | 0 |
| =144 | Timor-Leste | 6 | 0 | 0 |
| 154 | Eritrea | 0 | 0 | 0 |

Overall and category scores and ranks for 2020 are shown. All countries and areas are scored 0–100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.

| 4. DO | MESTIC COMMITMENTS | S AND CAPAC | CITY | | 5. | RIS | SK ENVII |
|--------------|--------------------------------|-------------------|------|------------|----|----------------|--------------------|
| | | | - | e since | _ | | |
| Rank / 15 | 4 Thailand | Score / 100 26 | 2018 | 2012 +9 | | nk / 15 115 | |
| =110 | Timor-Leste | 26 | 0 | +17 | | 115 | Madaga Philippi |
| =110 | | 26 | 0 | 0 | | 120 | |
| =110 | Tonga Trinidad and Tobago | 26 | 0 | 0 | | 121 | Bosnia Congo |
| =110 | Vanuatu | 26 | 0 | 0 | | 121 | Eritrea |
| =110 | Zambia | 26 | 0 | +17 | | 121 | Maurita |
| =124 | Belize | 17 | 0 | 0 | | 121 | Uganda |
| =124 | Benin | 17 | 0 | +8 | | 125 | Guaten |
| =124 | Bhutan | 17 | 0 | 0 | | 126 | Equato |
| =124 | Brunei | 17 | 0 | 0 | | 126 | Haiti |
| =124 | Burundi | 17 | 0 | +17 | | 126 | Kyrgyz |
| =124 | Comoros | 17 | 0 | +17 | | 126 | Myanm |
| | | 17 | 0 | | | 126 | Turkme |
| =124 =124 | Congo (Brazzaville) Eritrea | 17 | 0 | +17 +8 | | 126 | Uzbeki |
| | | 17 | | -9 | | 132 | |
| =124 | Fiji | | 0 | -9 +8 | | 132 | Bangla Cambo |
| =124 | Gambia Guinea | 17 | 0 | | | 132 | |
| =124 =124 | Haiti | 17 17 | 0 | +17 +8 | | 135 | Nicara Mali |
| | | 17 | 0 | | | 136 | |
| =124 | Libya | | | 0 | | | Camer |
| =124 | Nepal | 17 | 0 | +8 | | 137 | Kenya |
| =124 | Oman | 17 | 0 | +8 | | 137 | Nigeria |
| =124 | Papua New Guinea | 17 | 0 | +8 | | 137 | Tajikist |
| =124 | Samoa | 17 | 0 | 0 | | 140 | Burund |
| =124 | São Tomé and Príncipe | 17 | 0 | +17 | | 140 | Sudan |
| =124 | Sudan | 17 | 0 | +8 | | 142 | Zimbal |
| =124 | Suriname | 17 | 0 | 0 | | 143 | Chad |
| =124 | Togo | 17 | 0 | +8 | | 143 | Congo |
| =124 | Zimbabwe | 17 | 0 | +17 | | 143 | Lebano |
| =146 | Angola | 9 | 0 | 0 | | 146 | Ukraine |
| =146 | Bahamas | 9 | 0 | 0 | | 146 | Venezu |
| =146 | Chad | 9 | 0 | +9 | | 148 | Centra |
| =146 | Equatorial Guinea | 9 | 0 | +9 | | 149 | Somali |
| =146 | Guinea-Bissau | 9 | 0 | +9 | | 150 | Libya |
| =146 | Guyana | 9 | 0 | 0 | | 151 | Afghan |
| =146 | Liberia | 9 | 0 | +9 | | 151 | Iraq |
| =146 | Somalia | 9 | 0 | +9 | | 153 | Syria |
| =146 | Yemen | 9 | 0 | 0 | = | 153 | Yemen |
| | | | | | | | |

| 5. RIS | K ENVIRONMENT | | | | | |
|-----------|--------------------------|-------------|---------------|------------------------|--|--|
| | | | | | | |
| Rank / 15 | 4 | Score / 100 | Chang 2018 | hange since 18 2012 | | |
| =115 | Madagascar | 33 | +1 | -11 | | |
| =115 | Philippines | 33 | 0 | +7 | | |
| 120 | Bosnia and Herzegovina | 31 | +2 | -5 | | |
| =121 | Congo (Brazzaville) | 30 | -4 | -1 | | |
| =121 | Eritrea | 30 | +2 | -6 | | |
| =121 | Mauritania | 30 | -6 | -5 | | |
| =121 | Uganda | 30 | -6 | -8 | | |
| 125 | Guatemala | 29 | +1 | +4 | | |
| =126 | Equatorial Guinea | 28 | +2 | +2 | | |
| =126 | Haiti | 28 | +1 | +3 | | |
| =126 | Kyrgyz Republic | 28 | -1 | -1 | | |
| =126 | Myanmar | 28 | -3 | +7 | | |
| =126 | Turkmenistan | 28 | -1 | 0 | | |
| =126 | Uzbekistan | 28 | +5 | +10 | | |
| =132 | Bangladesh | 27 | -4 | +6 | | |
| =132 | Cambodia | 27 | +2 | +1 | | |
| =132 | Nicaragua | 27 | 0 | -3 | | |
| 135 | Mali | 26 | +5 | +2 | | |
| 136 | Cameroon | 24 | +1 | -4 | | |
| =137 | Kenya | 22 | +2 | -8 | | |
| =137 | Nigeria | 22 | +2 | +7 | | |
| =137 | Tajikistan | 22 | -3 | -2 | | |
| =140 | Burundi | 21 | +2 | 0 | | |
| =140 | Sudan | 21 | -1 | +2 | | |
| 142 | Zimbabwe | 18 | -2 | -6 | | |
| =143 | Chad | 17 | 0 | -1 | | |
| =143 | Congo (Dem. Rep. of) | 17 | +6 | +4 | | |
| =143 | Lebanon | 17 | +1 | -9 | | |
| =146 | Ukraine | 14 | -3 | -16 | | |
| =146 | Venezuela | 14 | -2 | -13 | | |
| 148 | Central African Republic | 11 | +2 | -9 | | |
| 149 | Somalia | 9 | +2 | +5 | | |
| 150 | Libya | 8 | +3 | -12 | | |
| =151 | Afghanistan | 3 | 0 | 0 | | |
| =151 | Iraq | 3 | -11 | -8 | | |
| =153 | Syria | 0 | 0 | -3 | | |
| =153 | Yemen | 0 | 0 | -4 | | |

Overall and category scores and ranks for 2020 are shown.

All countries and areas are scored 0-100, where 100 = most favorable nuclear materials security conditions.

⁼ denotes tie in rank.



SABOTAGE: PROTECT FACILITIES

| OVE | RALL SCORE | | | | 1. 1 | IUMBER OF SITES | 3 | | | | ECURITY AND (| CONTRO | | |
|----------|---------------------|-----------|------|----------|--------|----------------------|------------|----------|------|----------|-------------------|-------------|------|---------|
| | | | | e since | | | | Change | | | | | - | e since |
| Rank / | | ore / 100 | 2018 | 2016 | Rank / | | re / 100 | 2018 | 2016 | Rank / | | Score / 100 | 2018 | 2016 |
| 1 | Australia | 92 | +1 | +11 | =1 | Algeria | 100 | 0 | 0 | 1 | United Kingdom | 95 | 0 | +11 |
| 2 | Canada | 90 | 0 | +9 | =1 | Armenia | 100 | 0 | 0 | 2 | United States | 88 | 0 | +3 |
| 3 | Finland | 89 | 0 | +4 | =1 | Australia | 100 | 0 | 0 | =3 | Australia | 87 | 0 | +26 |
| 4 | United Kingdom | 88 | +1 | +7 | =1 | Bangladesh | 100 | 0 | 0 | =3 | Canada | 87 | 0 | +10 |
| =5 | Germany | 84 | +3 | +12 | =1 | Bulgaria | 100 | 0 | 0 | 5 | Finland | 86 | +3 | +5 |
| =5 | Hungary | 84 | -1 | +6 | =1 | Chile | 100 | 0 | 0 | 6 | Hungary | 83 | 0 | 0 |
| =7 | Netherlands | 83 | +1 | +8 | =1 | Egypt | 100 | 0 | 0 | 7 | Romania | 80 | 0 | 0 |
| =7 | United States | 83 | 0 | +6 | =1 | Israel | 100 | 0 | 0 | 8 | China | 79 | 0 | +36 |
| =9 | Czech Republic | 82 82 | +1 | +7 | =1 | Jordan | 100 100 | n/a 0 | n/a | =9 | Bulgaria | 77 77 | +16 | +20 |
| =9 | Japan | 82 | +1 | +6 | =1 | Mexico | | | 0 | =9 | Germany | | 0 | |
| =9 | Romania Sweden | 82 | +1 | +3 +7 | =1 | Morocco | 100 | 0 | 0 | 11 | Czech Republic | 74 73 | 0 | +9 |
| =9 =9 | Switzerland | 82 | +3 | +10 | =1 | Peru Poland | 100 | 0 | 0 | 12 13 | Japan Belgium | 73 | +9 | +11 |
| =14 | | 81 | +3 | +10 | =1 | Slovenia | 100 | 0 | 0 | =14 | Netherlands | 69 | 0 | +5 |
| =14 | Norway Slovenia | 81 | +2 | +8 | =1 | United Arab Emirates | | n/a | n/a | =14 | Slovenia | 69 | +4 | +6 |
| 16 | Belgium | 80 | +3 | +6 | =1 | Uzbekistan | 100 | 0 | 0 | =14 | Switzerland | 69 | 0 | 0 |
| 17 | Poland | 78 | 0 | +6 | =17 | Argentina | 80 | 0 | 0 | 17 | Taiwan | 68 | +2 | +4 |
| =18 | France | 77 | -1 | +3 | =17 | Brazil | 80 | 0 | 0 | 18 | Russia | 67 | 0 | 0 |
| =18 | South Korea | 77 | 0 | +7 | =17 | Czech Republic | 80 | 0 | 0 | =19 | South Korea | 66 | 0 | +4 |
| =18 | United Arab Emirate | | n/a | n/a | =17 | Finland | 80 | 0 | 0 | =19 | Ukraine | 66 | 0 | +7 |
| 21 | Bulgaria | 75 | +8 | +11 | =17 | Hungary | 80 | 0 | 0 | =21 | Poland | 65 | +4 | +4 |
| =22 | China | 74 | +1 | +19 | =17 | Indonesia | 80 | 0 | 0 | =21 | United Arab Emira | | n/a | n/a |
| =22 | Spain | 74 | 0 | +8 | =17 | Iran | 80 | 0 | 0 | =23 | Armenia | 63 | 0 | +8 |
| 24 | Slovakia | 73 | +4 | +7 | =17 | Kazakhstan | 80 | 0 | 0 | =23 | Sweden | 63 | 0 | +2 |
| =25 | Indonesia | 69 | 0 | +7 | =17 | Netherlands | 80 | 0 | 0 | 25 | France | 59 | 0 | 0 |
| =25 | Kazakhstan | 69 | +1 | +13 | =17 | North Korea | 80 | 0 | 0 | =26 | Pakistan | 56 | +15 | +22 |
| 27 | Argentina | 68 | -2 | +6 | =17 | Norway | 80 | 0 | 0 | =26 | Slovakia | 56 | +4 | +4 |
| 28 | Armenia | 67 | 0 | +6 | =17 | Pakistan | 80 | 0 | 0 | 28 | Spain | 55 | 0 | +6 |
| 29 | Ukraine | 65 | 0 | +8 | =17 | Romania | 80 | 0 | 0 | =29 | Indonesia | 53 | 0 | 0 |
| 30 | Russia | 64 | +1 | +4 | =17 | Slovakia | 80 | 0 | 0 | =29 | Kazakhstan | 53 | 0 | +10 |
| 31 | Israel | 61 | -1 | +5 | =17 | South Africa | 80 | 0 | 0 | 31 | India | 52 | 0 | +7 |
| 32 | Chile | 60 | +2 | +8 | =32 | Belgium | 60 | 0 | 0 | 32 | Norway | 49 | 0 | +4 |
| 33 | Pakistan | 58 | +5 | +12 | =32 | Canada | 60 | 0 | 0 | 33 | Jordan | 46 | n/a | n/a |
| 34 | Morocco | 57 | +1 | +8 | =32 | India | 60 | 0 | 0 | =34 | Argentina | 45 | 0 | 0 |
| 35 | South Africa | 56 | +1 | 0 | =32 | South Korea | 60 | 0 | 0 | =34 | Peru | 45 | 0 | 0 |
| 36 | Uzbekistan | 55 | +2 | +5 | =32 | Spain | 60 | 0 | 0 | 36 | Brazil | 43 | +7 | +7 |
| 37 | Mexico | 54 | +1 | +11 | =32 | Sweden | 60 | 0 | 0 | 37 | Uzbekistan | 41 | 0 | 0 |
| =38 | India | 53 | 0 | +7 | =32 | Switzerland | 60 | 0 | 0 | 38 | South Africa | 40 | 0 | 0 |
| =38 | Jordan | 53 | n/a | n/a | =32 | Taiwan | 60 | 0 | 0 | 39 | Israel | 36 | 0 | 0 |
| =38 | Taiwan | 53 | 0 | +2 | =32 | Ukraine | 60 | 0 | 0 | 40 | Chile | 35 | 0 | 0 |
| 41 | Peru | 52 | +1 | +4 | =41 | China | 40 | 0 | 0 | 41 | Algeria | 32 | 0 | +2 |
| 42 | Brazil | 47 | 0 | +1 | =41 | Germany | 40 | 0 | 0 | =42 | Iran | 23 | 0 | 0 |
| 43 | Bangladesh | 45 | +1 | +8 | =41 | United Kingdom | 40 | 0 | 0 | =42 | North Korea | 23 | 0 | 0 |
| 44 | Algeria | 42 | -2 | +2 | =44 | France | 20 | 0 | 0 | 44 | Mexico | 21 | 0 | 0 |
| 45 | Egypt | 40 | -2 | +5 | =44 | Japan | 20 | 0 | 0 | 45 | Egypt | 19 | 0 | 0 |
| 46 | Iran | 21 | 0 | +1 | =44 | Russia | 20 | 0 | 0 | 46 | Bangladesh | 17 | 0 | 0 |
| 47 | North Korea | 17 | +1 | +1 | 47 | United States | 0 | 0 | 0 | 47 | Morocco | 16 | 0 | 0 |

Overall and category scores and ranks for 2020 are shown. All countries and areas are scored 0-100, where 100 = most favorable nuclear security conditions. = denotes tie in rank.



3. GLOBAL NORMS 4. DOMESTIC COMMITMENTS AND 5. RISK ENVIRONMENT CAPACITY Change since Change since Change since Rank / 47 Score / 100 Rank / 47 Score / 100 2018 2016 Rank / 47 Score / 100 2018 2016 2018 2016 1 France 97 0 +13 =1 Argentina 100 0 +16 =1 Norway 94 +2 +5 94 +13 100 0 0 94 +5 +8 =2 Australia +4 =1 Australia =1 Sweden =2 Canada 94 0 +16 Bulgaria 100 +11 +16 3 Switzerland 88 0 -3 =2 Japan 94 +3 +16 =1 Canada 100 0 +5 Australia 87 0 +3 =2 Mexico 94 +3 +23 =1 Czech Republic 100 0 0 5 Canada 83 0 +3 =2 Poland 94 0 +13 =1 Finland 100 0 0 6 Finland 82 -2 0 0 0 =2 Sweden 94 +16 =1 France 100 =7 Germany 81 +3 +11 =2 Ukraine 94 0 +19 =1 Germany 100 +11 +11 =7 Netherlands 81 +2 +7 9 77 =2 **United States** 94 -3 +10 =1 Hungary 100 0 +16 Slovenia +1 +6 93 0 100 0 +15 10 Taiwan 76 -2 10 Belgium +13 Indonesia +3 =1 0 75 =11 Norway 91 0 +16 =1 Israel 100 +21 11 Japan 0 +5 =11 United Kingdom 91 0 +13 =1 Japan 100 0 0 12 Slovakia 74 +4 +5 Romania 90 +6 +15 100 0 +21 13 United Kingdom 73 +5 +6 13 =1 Kazakhstan Finland 88 -3 Netherlands 100 0 =14 Belgium 71 +10 +10 +2 -3 =14 Germany 88 0 +19 =1 Norway 100 +11 +16 =14 United Arab Emirates 71 n/a n/a South Korea 88 -3 +10 Romania 100 0 0 =16 Czech Republic 69 +1 =14 =1 +1 Indonesia 86 +4 +21 =1 Russia 100 0 +10 =16 South Korea 69 +1 +9 17 85 -3 0 +10 Slovakia 100 =18 France 66 -6 O =18 Hungary =1 +11 0 0 -2 =18 Kazakhstan 85 0 +14 Slovenia 100 +11 =18 Hungary 66 =18 Netherlands 85 0 +10 =1 Spain 100 0 +5 20 Spain 64 +2 +12 85 0 +13 100 +11 =21 Chile 63 -1 -1 =18 Spain =1 Switzerland +16 84 0 United Kingdom 0 0 =22 Chile +17 100 =21 **United States** 63 +4 +2 =22 China 84 0 +13 =1 **United States** 100 0 +11 23 Poland 61 -4 +2 Czech Republic 84 0 +16 =24 89 0 +5 57 =22 Armenia 24 Bulgaria +1 +3 =22 Switzerland 84 +5 +30 =24 Belgium 89 0 0 =25 Argentina 55 -3 +2 89 0 +15 55 -1 26 United Arab Emirates 83 n/a n/a =24 China =25 Romania 0 =27 India 81 0 +12 =24 Morocco 89 0 +15 27 South Africa 53 +4 +3 =27 Jordan 81 =24 Pakistan 89 0 28 Israel 48 -1 -10 n/a n/a 0 =29 Morocco 78 +4 +19 =24 Poland 89 +5 29 Brazil 47 -4 -2 =29 Slovenia 78 +3 +12 =24 South Korea 89 0 +5 =30 China 44 +4 +7 31 Argentina 76 -4 +11 =24 Sweden 89 0 +5 =30 Morocco 44 -3 -4 74 -3 89 32 Armenia +10 =24 **United Arab Emirates** n/a 32 Jordan 40 n/a n/a n/a +3 0 39 33 Russia 64 0 =24 Uzbekistan 89 +15 =33 Egypt -5 -3 34 Slovakia 63 +6 +6 34 Bangladesh 84 0 +21 =33 India 39 +1 +6 35 Algeria 60 -4 0 =35 South Africa 78 0 0 =33 Mexico 39 +1 +3 59 -2 -3 =35 Ukraine 78 0 36 Peru 37 -4 -1 =36 Brazil +5 59 37 67 0 =37 36 -5 -3 =36 Bulgaria +4 +4 Egypt +15 Indonesia =36 Israel 59 -4 +10 =38 Chile 58 +11 +16 =37 Kazakhstan 36 +6 +12 39 Pakistan 58 0 +9 =38 58 0 +21 39 North Korea 34 +5 +8 Mexico -3 32 40 Peru 56 +3 =38 Peru 58 +11 +16 40 Uzbekistan +3 +2 0 -2 41 South Africa 51 0 -3 41 Taiwan 42 0 41 Algeria 31 -2 42 Bangladesh 50 +4 +8 =42 Algeria 36 0 +10 =42 Armenia 29 +1 +1 47 0 29 43 Uzbekistan +3 +3 =42 Brazil 36 +5 =42 Russia +3 +8 29 +9 36 0 21 -2 44 Egypt -4 =42 India +5 44 Bangladesh +5 22 -3 -3 45 -1 45 Taiwan =42 Jordan 36 n/a n/a Iran 18 -13 46 14 0 +4 46 15 0 +10 46 Pakistan 16 0 +2 Iran Iran North Korea 0 0 0 47 North Korea 0 0 0 14 -2 Ukraine O

Overall and category scores and ranks for 2020 are shown. All countries and areas are scored 0–100, where 100 = most favorable nuclear security conditions. = denotes tie in rank.



| NATIONAL MEA | ASURES | | | |
|--------------------------------|--|-------------------------|-----|--|
| | | No or no data available | Yes | |
| Regulatory Oversight | Does the country maintain a radioactive source regulatory oversight body? | 19% | 81% | |
| Security Measures | Are there regulations that require security measures to be in place to protect radioactive sources? | 44% | 56% | |
| State Registry | Does the state maintain a registry of radioactive sources? | 64% | 36% | |
| Inspection Authority | Does the state have authority to inspect facilities with radioactive sources? | 49% | 51% | |
| Export Licenses | Are there licensing requirements for exporting IAEA Category 1 sources? | 55% | 45% | |
| GLOBAL NORMS | | | | |
| | | No | Yes | |
| IAEA Code of Conduct Status | Has the state made a political commitment and notified the IAEA of their intent to abide by the Code of Conduct on the Safety and Security of Radioactive Sources? | 22% | 78% | |
| | Has the state notified the IAEA of their intent to abide by the Guidance on the Import and Export of Radioactive Sources? | 32% | 68% | |
| | Has the state nominated a Point of Contact to facilitate imports and exports of radioactive source material? | 19% | 81% | |
| | Has the state made available their responses to the IAEA Importing and Exporting States Questionnaire? | 40% | 60% | |
| | Has the state notified the IAEA of their commitment to implement the Guidance on the Management of Disused Radioactive Sources? | 79% | 21% | |
| International Participation | Does the state participate in the Global Initiative to Combat Nuclear Terrorism (GICNT)? | 51% | 49% | |
| | Did the state send an official delegation to the 2018 International Conference on the Security of Radioactive Material? | 59% | 41% | |
| International Conventions | Is the country a state party to the International Convention for the Suppression of Acts of Nuclear Terrorism (ICSANT)? | 39% | 61% | |
| | Is the country a state party to the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management? | 54% | 46% | |
| | Is the country a state party to the Convention on Assistance in the Case of Nuclear Accident or Radiological Emergency? | 40% | 60% | |



| | | No | Yes | | | | |
|------------------------|--|-------------------------|---|--------------------------------------|-------------------------------------|--|--|
| Intent | Has the state subscribed to INFCIRC/910? | 82% | 18% | | | | |
| | | No or no data available | Yes | | | | |
| Implementation | Has the country publicly declared a regulatory requirement, policy, or commitment to implementing alternative technology to replace high-activity radioactive sources? | 94% | 6% | _ | | | - |
| | | No data available | Frequent power outages (80th-99th percentile) | 60th-79th percentile | 40th-59th percentile | 20th-39th percentile | Infrequent power outages (0-19th percentile) |
| Capacity | What is the average percentage of businesses experiencing power outages each month? | 26% | 15% | 15% | 15% | 14% | 15% |
| | | No data available | Few people with degrees (0-19th percentile) | 20th-39th percentile | 40th-59th percentile | 60th-79th percentile | Many people with degrees (80th-99th percentile) |
| | What percentage of the population over 25 holds a tertiary degree or higher? | 39% | 13% | 12% | 13% | 12% | 13% |
| RISK ENVIRONM | IENT | | | | | | |
| | | No data available | Very high | High | Moderate | Low | Very low |
| Political Stability | What is the risk of significant social unrest during the next two years? | 4% | 8% | 24% | 39% | 19% | 5% |
| | | No data available | Not clear, established, or accepted | Two of the three criteria are absent | One of the three criteria is absent | Clear, established, and accepted | Very clear, established, and accepted |
| | How clear, established, and accepted are constitutional mechanisms for the orderly transfer of power from one government to another? | 5% | 16% | 23% | 18% | 22% | 15% |
| | | No data available | Very high | High | Moderate | Low | No threat |
| | Is there a risk that international disputes/ tensions will negatively affect the polity during the next two years? | 5% | 11% | 19% | 32% | 30% | 3% |

RADIOLOGICAL (cont'd)

| | | - | | | | | |
|--|--|----------------------|---|---------------------------------------|--|--|-----------------------------|
| | | No data available | Territorial conflict; opposition has effective control over a region or regions | Sporadic and incursive conflict | Incursive conflict; government remains in control, but opposition engages in frequent armed incursions | Sporadic conflict; government control is firm, but opposition engages in isolated incidents of violence | No armed conflict exists |
| Political Stability | Is this country presently subject to armed conflict, or is there at least a moderate risk of such conflict during the next two years? | 5% | 6% | 8% | 10% | 30% | 42% |
| | | No data available | Very high | High | Moderate | Low | Very low |
| | Are violent demonstrations or violent civil/labor unrest likely to occur during the next two years? | 5% | 7% | 20% | 28% | 33% | 7% |
| | | No data available | Very low | Low | Moderate | High | Very high |
| | How effective is the country's political system in formulating and executing policy? | 54% | 2% | 13% | 19% | 11% | 2% |
| | What is the quality of the country's bureaucracy and its ability to carry out government policy? | 5% | 18% | 38% | 26% | 9% | 5% |
| | | No data available | Very high | High | Moderate | Low | Very low |
| Pervasiveness of Corruption | How pervasive is corruption among public officials? | 5% | 23% | 30% | 22% | 12% | 10% |
| | | No data available | Very high | High | Moderate | Low | Very low |
| Illicit Activities by Non-State Actors | How likely is it that domestic or foreign terrorists will attack with a frequency or severity that causes substantial disruption to business operations? | 3% | 6% | 6% | 24% | 39% | 21% |
| | How likely is organized crime to be a problem for government and/or business? | 0% | 10% | 19% | 31% | 32% | 8% |
| | How many firearms were seized during the interdiction of illicit weapons trafficking? | 51% | 10% | 10% | 10% | 10% | 10% |



About the Nuclear Security Index

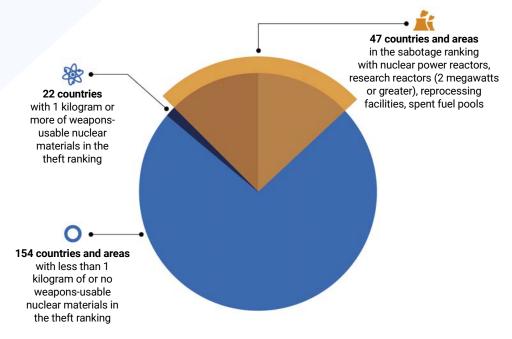
The NTI Index is a groundbreaking assessment of nuclear security conditions in countries around the world. It promotes actions to strengthen nuclear security and build confidence, and it highlights progress and trends over time. Published biennially since 2012, the NTI Index includes two theft rankings and one sabotage ranking:

- **Theft: Secure Materials**—A ranking of 22 countries with 1 kilogram or more of weaponsusable nuclear materials—highly enriched uranium (HEU) and separated plutonium—to assess actions to secure materials against theft
- **Theft: Support Global Efforts**—A ranking of 153 countries and Taiwan¹ with less than 1 kilogram of or no weapons-usable nuclear materials to assess actions to support global nuclear security efforts
- Sabotage: Protect Facilities—A ranking of 46 countries and Taiwan with or without weapons-usable nuclear materials, but which have nuclear facilities such as nuclear power reactors and research reactors, to assess actions to protect nuclear facilities against sabotage

The NTI Index ...
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¹ Taiwan is included in the theft ranking for countries and areas without nuclear materials and the sabotage ranking due to its autonomous nuclear regulatory structure. Given Taiwan's status, "About the Nuclear Security Index" describes the number of countries and areas in the NTI Index as "153 countries and Taiwan" and "46 countries and Taiwan" in the theft and sabotage rankings, respectively. Further references to numbers of countries in the report and website include Taiwan. For more on how Taiwan is treated in the Index, see the full EIU methodology at www.ntiindex.org.

Figure 1: Countries in the NTI Index



WHY AN INDEX?

Nuclear materials that could be used to build a nuclear bomb are located in 22 countries around the world. And 154 other countries and areas could serve as safe havens, staging grounds, or transit routes for illicit nuclear activities. Nuclear facilities that could be at risk of sabotage, leading to release of radioactive materials, exist in 47 countries and areas. Terrorist groups interested in committing acts of nuclear terrorism continue to pose risks around the world, and their capabilities continue to evolve. Constant vigilance by nuclear operators, governments, and international organizations will be needed to keep pace with evolving threats.

The international community has seen significant progress on nuclear security over the past two decades, including as a result of the Nuclear Security Summits. Since 2012, the NTI Index has identified significant gaps and challenges in global nuclear security and demonstrated that continued prioritization of nuclear security at national and international levels is critical for preventing potentially catastrophic outcomes.

The NTI Index was developed to promote country actions to strengthen nuclear security, track progress, identify nuclear security priorities, and build accountability. Keeping track of nuclear security is even more important now that the summits have ended. With the first three editions of the NTI Index timed for release before the 2012, 2014, and 2016 summits, the NTI Index was able to track progress, including actions taken to fulfill summit commitments, in an era when global leadership and political attention on nuclear security were at their highest levels.

In the absence of the driving force of the summits, the NTI Index can serve a much-needed forcing function for continued progress by highlighting evolutions in best practices and priorities, raising red flags where gaps and challenges remain unaddressed, and promoting action and accountability. The NTI Index also provides an assessment of the health, sustainability, and comprehensiveness of the global nuclear security architecture, including the International Atomic Energy Agency (IAEA) and international treaties.

² Belarus is preparing to launch its new nuclear power reactor now that the initial fuel load has been delivered. The fuel delivery was completed after research for the 2020 edition of the NTI Index closed and therefore was not included in this year's sabotage ranking. It will be added to the sabotage ranking in the next edition of the NTI Index.

DEVELOPMENT OF THE INDEX

The Economist Intelligence Unit (EIU) conducts all research using publicly available information, such as national laws and regulations, treaty databases, and other primary and secondary sources. The NTI Index does not conduct reviews of on-the-ground security but rather assesses national-level actions, such as the comprehensiveness of a country's regulatory framework, its commitment to global norms, and its participation in global initiatives.

Countries with weapons-usable nuclear materials and/ or nuclear facilities have an opportunity to review and comment on the NTI Index data before the Index is published so that it is as accurate and up-to-date as possible. This data confirmation process increases transparency and provides a foundation for productive engagement with governments on the Index results.

The NTI Index is designed to represent international perspectives about nuclear security priorities. To help achieve this, decisions about the elements of the NTI Index frameworks and how those elements are prioritized through weighting are made with input from an international panel of experts.

THE FRAMEWORKS

The frameworks for the three rankings differ slightly from each other but, in general, include a variety of factors that impact a country's nuclear security conditions:

- Quantities and Sites: This category captures the quantity of nuclear materials, the number of sites, and the frequency of transport in a particular country, all related to the risk that materials could be stolen. In addition, it includes a leading indicator as to whether the country is increasing or decreasing its overall material quantities. This category is not included in the theft ranking for countries without materials. The sabotage ranking looks at only the number of sites, not quantities of material.
- Security and Control Measures: This category encompasses the core activities directly related to protection and accounting of nuclear materials. It

includes indicators of physical protection, control and accounting, insider threat prevention, security during transport, response capabilities, cybersecurity, and security culture. This category is not included in the theft ranking for countries without materials.

- Global Norms: This category includes actions that contribute to the establishment of global norms for nuclear materials security. It includes important international legal commitments, voluntary participation in a number of global initiatives, international assurances, and nuclear security information circulars (INFCIRCs).
- Domestic Commitments and Capacity: This category includes actions that indicate how well a country has implemented its international commitments and a country's capacity to do so. This category includes the extent of United Nations Security Council Resolution 1540 implementation, the status of legislation to implement the amended Convention on the Physical Protection of Nuclear Material (CPPNM), and the presence of an independent regulatory agency.
- Risk Environment: This category includes contextual factors, such as political stability, effective governance, corruption, and illicit activities by non-state actors that can affect a country's ability to implement effective security and regulatory oversight.

Countries are scored on a scale of 0 to 100, where 100 is the top score. Weights are applied to categories and indicators to reflect relative priorities. Overall scores are calculated on the basis of the weighted sum of category scores. Category scores are the weighted sum of the indicator scores within that category. Indicator scores are the sum of the subindicator scores normalized on a scale of 0 to 100. A low score is between 0 and 33, a medium score is between 34 and 66, and a high score is between 67 and 100.

The NTI Index assesses the risk of theft of weaponsusable nuclear materials and the risk of sabotage of nuclear facilities. It does not assess a country's actions related to smuggling and illicit trafficking, nonproliferation, or disarmament.

Figure 2: How the Theft Ranking Measures Nuclear Security Conditions



The theft ranking assesses countries with weapons-usable nuclear materials based on these five categories. Countries and areas without materials are assessed on three categories.

KEY



Countries with weapons-usable nuclear materials

Countries and areas without weapons-usable nuclear materials

*This indicator does not apply to countries without nuclear materials.

Note: For information about data sources used for scoring, see the full EIU Methodology at www.ntiindex.org.

Figure 3: How the Sabotage Ranking Measures Nuclear Security Conditions



The sabotage ranking assesses countries with nuclear facilities based on these five categories.

Note: For information about data sources used for scoring, see the full EIU Methodology at www.ntiindex.org.



Radioactive sources in teletherapy devices could be stolen and used to build dirty bombs.

IMPORTANT NEW ELEMENTS IN 2020

For the 2020 edition, NTI took a fresh approach to the NTI Index to account for progress on nuclear security and new tools available to address risks. Among the key changes across all three rankings are the following:

- In areas where most countries excelled, questions were adjusted to raise the bar to promote continuous improvement.
- New indicators were added to the rankings for countries with nuclear materials and/or nuclear facilities to reflect newer priorities, such as Security Culture. Existing high-priority indicators, such as Insider Threat Prevention and Cybersecurity, were strengthened by adding new subindicators.
- Credit is given to countries that use new tools for nuclear security cooperation and confidence building. For example, those actions include subscribing to nuclear security INFCIRCs, publishing reports from IAEA International Physical Protection Advisory Service (IPPAS) missions, and publicly reporting on nuclear security progress.
- Key elements of the international architecture, such as the IAEA and the amended CPPNM, are given higher prominence by adding new subindicators. Those subindicators include (a) participation in IAEA activities such as the Incident and Trafficking Database and the Nuclear Security Guidance Committee, (b) representation at the IAEA International

Conference on Nuclear Security at the ministerial level, and (c) submission of information to the IAEA on laws and regulations as required by the amended CPPNM.

Also new in 2020 is a first-of-its-kind Radioactive Source Security Assessment, released in conjunction with the NTI Index. It assesses national measures in 176 countries to prevent a dirty bomb.

ADDITIONAL RESOURCES

The NTI Index website (www.ntiindex.org) has several resources for users depending on their interests. This report is available for download, along with a more detailed EIU methodology. All data are available for download in interactive data models, which include underlying scores as well as tools to better understand the data.

Detailed country profiles are also available in the interactive data models and on the website to offer a deeper dive into a country's performance. The website includes an interactive tool that simulates a country's scores if it were to take recommended actions.



Radioactive Source Security Assessment

There is no existing global assessment of the security around radioactive sources. To fill this gap, this report includes a separate, first-of-its-kind Radioactive Source Security Assessment of national policies, commitments, and actions to secure radioactive sources and prevent a dirty bomb in 176 countries. This new assessment also uses publicly available information, but it does not score or rank countries.

THE RISK OF A DIRTY BOMB

Thousands of radioactive sources used in countries around the world for medical, industrial, agricultural, research, or other purposes could be stolen and used in a dirty bomb. Not only are these sources widely used, but they are housed in locations that lack high levels of security, such as hospitals and universities and other industrial settings. Because a dirty bomb is relatively easy to construct, its use is more likely than a nuclear weapon. It would not result in large numbers of deaths or injuries, but the consequences would still be serious: large-scale economic costs stemming from cleanup and inability to use the affected area for years, environmental damage, and significant psychological consequences.

Thousands of radioactive sources used in countries around the world for medical, industrial, agricultural, research, or other purposes could be stolen and used in a dirty bomb.

ABOUT THE RADIOACTIVE SOURCE SECURITY ASSESSMENT

The Radioactive Source Security Assessment aims to do the following:

- Build greater awareness of the importance of securing radioactive sources.
- Catalyze a dialogue about priorities for strengthening radioactive source security.
- Promote progress in securing radioactive sources and in reducing the quantities of the most dangerous radioactive sources and applications, including through the use of alternative technologies.
- Highlight leading practices in radiological security, including supporting global norms.
- Provide a unique resource that sets a baseline understanding of the status of global radiological security.
- Promote reporting, information sharing, and benchmarking of national and international commitments and actions on radiological security.

Unlike the Nuclear Security Index, the new Radioactive Source Security Assessment does not score or rank countries. The methodology also does not involve indepth country research. Instead, the assessment relies on existing databases and other sources of consolidated information. In future years, NTI may expand the assessment to include scores, ranks, and more in-depth research.

A separate panel of international radiological security experts advised the development of the Radioactive Source Security Assessment.

THE FRAMEWORK

The Radioactive Source Security Assessment includes four categories:

- **National Measures:** This category assesses a country's domestic policies, commitments, and actions for managing and securing radioactive sources. It asks (a) whether countries have an independent regulatory body to provide oversight over radioactive sources; (b) whether a country's domestic laws and regulations explicitly require security (not just safety) measures to be in place to protect radioactive sources; (c) whether the country maintains a national registry of radioactive sources, a key step in tracking and accounting for sources at the national level; (d) whether the country has authority to inspect facilities with radioactive sources; and (e) whether there are licensing requirements for the export of International Atomic Energy Agency (IAEA) Category 1 radioactive sources.3
- Slobal Norms: This category assesses a country's international commitments and support for global norms around radioactive sources. It examines each country's commitments in the context of the IAEA Code of Conduct on the Safety and Security of Radioactive Sources, including the Supplemental Guidance on the Import and Export of Radioactive Sources and Supplemental Guidance on the Management of Disused Radioactive Sources. It also asks whether a country participates in international organizations or conferences and is a party to key international legal agreements related to radiological security.
- Alternative Technologies: This category assesses a country's commitment to supporting the development and implementation of alternative technology to highactivity radioactive sources, as well as each country's capacity to sustainably implement alternative technologies to high-activity radioactive sources.
- **Risk Environment:** Similar to the NTI Index, the Radioactive Source Security Assessment includes indicators of a country's risk environment.

³ Category 1 sources are radioactive materials that, according to the IAEA, "would be likely to cause permanent injury to a person who handled it, or were otherwise in contact with it, for more than a few minutes." IAEA Category 1 sources are as follows: radioisotope thermoelectric generators (RTGs); irradiators; teletherapy sources; and fixed, multibeam teletherapy (gamma knife) sources. See www-pub.iaea.org/MTCD/publications/PDF/Pub1227_web.pdf.

Framework for the Radioactive Source Security Assessment

A. O National Measures

- A.1 Regulatory Oversight
- A.2 Security Measures
- A.3 State Registry
- A.4 Inspection Authority
- A.5 Export Licenses

B. Global Norms

- B.1 IAEA Code of Conduct Status
- **B.2** International Participation
- **B.3** International Conventions

RADIOLOGICAL

D. A Risk Environment

- D.1 Political Stability
- D.2 Effective Governance
- D.3 Pervasiveness of Corruption
- D.4 Illicit Activities by Non-State Actors

C. Commitment and Capacity to Adopt Alternative Technologies

- C.1 Intent
- C.2 Implementation
- C.3 Capacity

See the full EIU methodology at www.ntiindex.org for more information on the methodology for the Radioactive Source Security Assessment.

About NTI and the EIU

NUCLEAR THREAT INITIATIVE

NTI is a nonpartisan, non-profit global security organization focused on reducing nuclear and biological threats imperiling humanity. Founded in 2001 by former U.S. Senator Sam Nunn and philanthropist Ted Turner, who continue to serve as co-chairs, NTI is guided by a prestigious international board of directors. Ernest J. Moniz serves as co-chair and chief executive officer; Joan Rohlfing is president and chief operating officer.

www.nti.org

ECONOMIST INTELLIGENCE UNIT

The Economist Intelligence Unit (EIU) is the research arm of The Economist Group, publisher of *The Economist*. As the world's leading provider of country intelligence, the EIU helps governments, institutions, and businesses by providing timely, reliable, and impartial analysis of economic and development strategies. Through our public policy practice, we provide evidence-based research for policymakers and stakeholders seeking measurable outcomes in fields ranging from technology and finance to energy and health. We conduct research through interviews, regulatory analysis, quantitative modeling, and forecasting, and we display the results through interactive data visualization tools. Through a global network of more than 900 analysts and contributors, the EIU continuously assesses and forecasts political, economic, and business conditions in more than 200 countries.

www.eiu.com

Explore the NTI Nuclear Security Index and the Radioactive Source Security Assessment at www.ntiindex.org





- See profiles for all countries in the NTI Index, including areas for improvement
- > Explore how different actions would improve a country's score
- > Compare country scores, ranks, and trends
- Review the full methodology, including detailed descriptions of the NTI Index indicators
- Download Excel spreadsheets to analyze all NTI Index data
- > Review the Radioactive Source Security Assessment—new in 2020!

