



Essays from UxC's *Nuclear Power Outlook*

Toggle Descriptions

Date	Title/Description
Q4 2018	2018 Q4 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with our annual "Year in Review" that provides a full recap of the key developments and nuclear market trends from 2018. Additionally, we examine possible future developments through our take on expectations for the nuclear markets in the coming year. Our "In The Spotlight" section reviews the International Energy Agency's World Energy Outlook 2018 report and its perspectives on the future of electricity and the role of nuclear power. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q3 2018	2018 Q3 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis begins with a detailed analysis of the Chinese nuclear reactor construction situation, including discussions on current status and future prospects for new build in the world's fastest nuclear growth market. Our "In The Spotlight" section next provides a review of the International Energy Agency's World Energy Investment 2018 report and its implications for the nuclear industry. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q2 2018	2018 Q2 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis begins with an in-depth analysis of the state of battery electricity storage and the potential that such storage, when coupled for example with renewable power generation, has to compete with nuclear power for baseload electricity supply. Our "In The Spotlight" section provides an update on the state of nuclear power and prospects in the United States. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q1 2018	2018 Q1 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with a detailed analysis and update on the electricity market in China and implications for the country's nuclear power program. Our "In The Spotlight" section reviews the latest energy outlooks published by BP and the U.S. Energy Information Administration (EIA). Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q4 2017	2017 Q4 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with our annual "Year in Review" that focuses on analyzing the key developments and nuclear market trends from 2017. Additionally, we examine possible future developments through our take on expectations for the nuclear markets in the coming year. Our "In The Spotlight" section reviews the latest global energy outlooks published by the International Energy Agency(IEA) and U.S. Energy Information Administration (EIA). Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q3 2017	2017 Q3 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis includes a detailed analysis of the uncertain future of global nuclear power in key countries and highlights the recent major changes to UxC's nuclear power forecasts for this quarter. Our "In The Spotlight" section reviews a recent International Energy Agency (IEA) report on "World Energy Investment 2017." Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q2 2017	2017 Q2 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis includes a detailed analysis of the Westinghouse bankruptcy and its impact on the company's future prospects, especially its new reactor construction projects around the world. Our "In The Spotlight" section reviews a recent Global Nexus Initiative (GNI) report on "Evolving Nuclear Governance for a New Era." Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q1 2017	2017 Q1 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis includes a detailed analysis of China's electricity market and related government reforms and how these could impact the role of nuclear energy in this key country. Our "In The Spotlight" section reviews the latest BP Energy Outlook and how BP's independent analysis views future energy trends and evaluates the future of nuclear energy. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q4 2016	2016 Q4 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with our annual "Year in Review" that focuses on analyzing the key developments and nuclear market trends from 2016. Additionally, we examine possible future developments through our take on expectations for the nuclear markets in the coming year. Our "In The Spotlight" section this quarter provides additional analysis of the situation in France, where upwards of 20 reactors have been offline due to safety and quality assurance reviews. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q3 2016	2016 Q3 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis provides a detailed analysis of the increasing rivalry between the global reactor exporters of Russia and China. This in-depth analysis reviews both country's current state of reactor projects abroad and how the two nations are competing for new projects in many parts of the world. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q2 2016	2016 Q2 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis provides a detailed analysis of the state of the U.S. nuclear industry in light of negative market pressures and the drive for operating cost reductions by the utilities. Our "In the Spotlight" section this quarter reviews the International Energy Outlook 2016 published by the U.S. Energy Information Administration. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q1 2016	2016 Q1 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis includes a summary review, with specific focus on nuclear energy-related aspects, of the latest OECD International Energy Agency's "World Energy Outlook 2015," which was published late last year. Our "In the Spotlight" section this quarter provides an in-depth analysis of the latest situation of nuclear energy in the Middle East. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.
Q4 2015	2015 Q4 Nuclear Power Market Trends and Analysis This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with our annual "Year in Review" that focuses on analyzing the key developments and nuclear market trends from 2015. We also look at expectations for the nuclear markets in the coming year. Our "In the Spotlight" section this quarter provides an in-

depth look at the key drivers and challenges influencing China's nuclear power program, including an in-depth discussion of public acceptance issues in the country. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter

Q3 2015 Q3 Nuclear Power Market Trends and Analysis

2015 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis includes a detailed review of UxC's new Low case forecast for nuclear power and examines the factors behind a possible "Perfect Storm" that could lead to a worst case future scenario for the industry. Our "In the Spotlight" section examines the new Clean Power Plan in the U.S. and its potential impacts on the nuclear power sector. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.

Q2 2015 Q2 Nuclear Power Market Trends and Analysis

2015 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis includes a detailed analysis of the current and future state of nuclear power in the Central and Eastern European (CEE) region. Our "In the Spotlight" section this quarter includes an in-depth review of the state of nuclear power in Japan and prospects for restarts as well as long-term energy policies. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.

Q1 2015 Q1 Nuclear Power Market Trends and Analysis

2015 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with a detailed review of recent trends in public opinion related to nuclear power in key countries around the world. Our "In the Spotlight" section this quarter takes an in-depth look at the OECD Nuclear Energy Agency's (NEA) recent "Technology Roadmap" report, which provides a vision of the role nuclear energy could play in a low-carbon energy system. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.

Q4 2014 Q4 Nuclear Power Market Trends and Analysis

2014 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with our annual "Year in Review" that focuses on analyzing the key developments and nuclear market trends from 2014. We also look at expectations for the nuclear markets in the coming year. Our "In the Spotlight" section this quarter provides an in-depth look at Sweden's nuclear power prospects following the recent change to a new government that opposes nuclear. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.

Q3 2014 Q3 Nuclear Power Market Trends and Analysis

2014 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis provides a sneak peek at some of UxC's latest in-depth analysis of the nuclear reactor technology marketplace in our new 2014 Reactor Technology Outlook (RTO) special report. Our "In the Spotlight" section looks at whether Belgium's nuclear phase-out will happen sooner than previously expected. Lastly, we identify who is up and who is down within the global nuclear industry over the past quarter.

Q2 2014 Q2 Nuclear Power Market Trends and Analysis

2014 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis analyzes the biggest challenges to nuclear power today along with ways that these can be overcome. Our "In the Spotlight" section reviews the latest U.S. Energy Information Administration's Annual Energy Outlook. Lastly, we identify who is up and who is down within the global nuclear industry since the last quarter.

Q1 2014 Q1 Nuclear Power Market Trends and Analysis

2014 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis begins with a detailed analysis of the two big questions in the nuclear markets today: China's new reactor program and Japan's reactor restarts. Our "In the Spotlight" section provides a review of the key conclusions in this year's BP Energy Outlook 2035. Lastly, we identify who is up and who is down within the global nuclear industry since the last quarter.

Q4 2013 Q4 Nuclear Power Market Trends and Analysis

2013 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with our annual "Year in Review" that focuses on analyzing the key developments and nuclear market trends from 2013. Our "In the Spotlight" section this quarter provides an in-depth look at China's rising reactor export ambitions and prospects for more developments in this area in the future. Lastly, we identify who is up and who is down within the global nuclear industry over the past year.

Q3 2013 Q3 Nuclear Power Market Trends and Analysis

2013 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis starts with a section entitled "Is it Really Déjà vu All Over Again?," which offers a retrospective look at nuclear power forecasts from five and ten years ago and compares the current outlook to that of the recent past. Our "In the Spotlight" section provides a summary of the U.S. EIA's International Energy Outlook 2013, which includes forecasts for global nuclear power. Lastly, we identify who is up and who is down within the global nuclear industry since the last quarter.

Q2 2013 Q2 Nuclear Power Market Trends and Analysis

2013 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews findings from a recent OECD NEA study on Long-Term Operations of NPPs and implications for nuclear power's future around the world. Our "In the Spotlight" section provides a summary of the U.S. EIA's Annual Energy Outlook 2013 and forecasts for U.S. nuclear power. Lastly, we identify who is up and who is down within the global nuclear industry since the last quarter.

Q1 2013 Q1 Nuclear Power Market Trends and Analysis

2013 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis introduces UxC's latest major addition to the NPO forecasts, namely our extension of all three reactor scenarios to 2040 (previously we ended our reactor forecasts at 2030). We are also introducing a new gigawatt-hour (GWh) forecast, which allows for better visualization of future nuclear power operations. Given the continuing uncertainty around Japan, our "In the Spotlight" section provides an updated analysis of the Japanese nuclear power situation. Lastly, we identify who is up and who is down within the global nuclear industry since the last quarter.

Q4 2012 Q4 Nuclear Power Market Trends and Analysis

2012 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews the major trends in the industry over the past year and looks specifically at the long-term development of nuclear power in key countries and regions after Fukushima. The chapter also includes a special spotlight on the broader energy forecasts presented in the latest OECD International Energy Agency's World Energy Outlook 2012 report. Lastly, we identify who is up and who is down within the global nuclear industry over the past year.

Q3 2012 Q3 Nuclear Power Market Trends and Analysis

2012 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews the trends in the industry over the past quarter and looks specifically at the impacts of post-Fukushima safety requirements on operating reactors and implications for nuclear reactor economics. The chapter also includes a special spotlight on the U.S. NRC's decision to halt reactor licensing decisions until it updates its Waste Confidence Rule. Lastly, we identify who is up and who is down within the global nuclear industry since the last quarter.

Q2 2012 Q2 Nuclear Power Market Trends and Analysis

2012 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews the trends in the industry over the past quarter and looks closely at the regional variation in terms of nuclear power markets after the Fukushima. The chapter also includes a special spotlight on the French and UK nuclear programs, with analysis of their current status and future prospects. Lastly, we identify who is up and who is down within the global nuclear industry since the last quarter.

Q1 2012 Q1 Nuclear Power Market Trends and Analysis

2012 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews the trends in the industry over the past quarter and looks closely at the state of the

global nuclear power markets nearly one year after the Fukushima accident. The chapter also includes a special spotlight on the U.S. nuclear industry status and prospects. Lastly, we also identify who's up and who's down within the international nuclear industry over the quarter.

Q4 2011 Q4 Nuclear Power Market Trends and Analysis

2011 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews the year's annual trends in the industry and looks closely at the deeper meaning behind the Fukushima accident in terms of both positive and negative indicators for nuclear power. The chapter also includes a special spotlight on the International Energy Agency's World Energy Outlook 2011 and the vision this report presents on the future of nuclear power after Fukushima. Lastly, we also identify who's up and who's down within the international nuclear industry over the year.

Q3 2011 Q3 Nuclear Power Market Trends and Analysis

2011 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews both the positive and negative nuclear market trends since Fukushima with special focus this time on the nuclear power program in Japan and its prospects after the fateful accident of March 11, 2011. We also identify who's up and who's down within the international nuclear industry this quarter.

Q2 2011 Q2 Nuclear Power Market Trends and Analysis

2011 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews the major global and regional trends in nuclear power over the past quarter with special focus this time on the worldwide ramifications of the Fukushima Daiichi nuclear plant accident in Japan. We also identify who's up and who's down within the international nuclear industry this quarter.

Q1 2011 Q1 Nuclear Power Market Trends and Analysis

2011 This quarter's Chapter 1 – Nuclear Power Market Trends and Analysis reviews the major global and regional trends in nuclear power over the past year. It also identifies who's up and who's down within the international nuclear industry. In addition, this quarter's "In the Spotlight" section evaluates the difficulties being encountered by the U.S. nuclear renaissance.

Q4 2010 Nuclear Power Market Trends and Analysis

2010 The essay reviews and analyzes the major global and regional trends in nuclear power over 2010. It also identifies who's up and who's down within the international nuclear industry in terms of countries, utilities, NSSS vendors, and EPCs/Component suppliers. Lastly, it includes a spotlight discussion on the IEA's World Energy Outlook 2010 forecasts for global energy supply and demand.

Q3 Small Modular Reactors: Is Smaller Better?

2010 This quarter's essay in Chapter 1 – Essay: Small Modular Reactors: Is Smaller Better? provides an overview analysis of the latest trends with small modular reactors (SMR) and the reasons for increased interest in SMRs around the globe as an alternative to large 1,000 MWe plus reactors.

Q2 Nuclear Energy Prospects in Southeast Asia

2010 This quarter's essay in Chapter 1 – Essay: Nuclear Energy Prospects in Southeast Asia analyzes the potential for nuclear power plants being deployed in various countries within the Southeast Asian region.

Q1 Nuclear Power and Climate Change

2010 This quarter's essay, "Nuclear Power and Climate Change" analyzes the nexus between carbon-neutral nuclear power and the policies around the world to reduce greenhouse gas emissions that are believed to be the cause of man-made global warming and climate change.

Q4 A Forecast For Every Season

2009 Given the intriguing results from multiple recent nuclear power forecasts from the WNA, IAEA, EIA, and OECD-IEA, the purpose of this essay is to examine both the common themes and the variations among these forecasts as well as to compare and contrast them with our own UxC reactor growth scenarios that are presented on a quarterly basis through the NPO.

Q3 A New Model to Forecast Fuel Cycle Requirements

2009 The purpose of this quarter's essay, "A New Model to Forecast Fuel Cycle Requirements", is to provide a detailed explanation of how the UxC Requirements Model (URM) was developed, how it functions and is updated, and how the results for each quarter's fuel cycle requirements are created and used. We also examine how the URM ties in to the reactor forecasts presented in UxC's Nuclear Power Outlook reports.

Q2 Nuclear Energy Prospects in the Middle East

2009 The goal of this essay is to understand the current status of nuclear energy development in the Middle East, identify potential challenges, and discuss future trends. We also focus on some concrete steps to introduce nuclear reactors into the energy mix of a few key countries in the region and provide detailed forecasts for nuclear power development in the Middle East by 2030.

Q1 From 0 to 1000 MWe: What It Takes To 'Go Nuclear'

2009 One important aspect to the anticipated growth in global nuclear power is that numerous new countries (mostly emerging economies) are taking serious steps towards developing their own domestic nuclear power programs. In this essay we present a brief overview and initial analysis of the primary technical and logistical issues for any country attempting to "go nuclear," i.e. from zero megawatts (MWe) of nuclear electricity to a fully operating commercial reactor.

Q4 Nuclear Power in an Uncertain World

2008 The global financial meltdown and near collapse of the credit markets in 2008 altered everyone's view of the future in one way or another. This essay explores in detail how the current and potential future economic uncertainties may alter the course of nuclear power developments around the world. We also assess the impact of the financial crisis on selected countries and report UxC's revised nuclear power forecasts.

Q3 New Nuclear Power Plant Financing

2008 In this essay we examine the issue of new nuclear plant financing in detail and analyze some of the different ways that utilities and countries are tackling the question of how to raise the necessary large capital funds to finance new reactor projects. This is a global review of the reactor financing issue and should provide insights into various approaches that may work as well as the common themes and lessons learned from different country experiences.

Q2 Top Ten Challenges to Nuclear Power

2008 In our desire to present a fair and balanced view of the future of nuclear power, this essay delves deeper into an examination of the "Top Ten Challenges" to nuclear power expansion around the world. While some challenges to nuclear power are well known, there are others that are either discounted or not often considered. We hope to highlight the nature of these challenges as well as discuss how some are responding to them.

Q1 Why Nuclear? Why Now?

2008 Top Ten Reasons for Nuclear Power: We examine the global dimension to nuclear power and the various rationales used by electric utilities and governments around the world pursuing new nuclear reactor construction. Much has been made of the "nuclear renaissance," but it is not often that we discuss the underlying reasons why this renaissance is real and what is driving this growth. There are clearly multiple reasons why nuclear power is back on the table in countries that appeared to moving away from it, and why nuclear is taking hold in parts of the world that had heretofore found other avenues to energy production.

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