MEETING AGENDA
2022

zoom

LATIN AMERICA NBP LITE 2022

6-7 April 2022

Organised by:

NUCLEAR BUSINESS PLATFORM

Patron & Partner:

HUNTON ANDREWS KURTH

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www.nuclearbusiness-platform.com

About Nuclear Business Platform

Since its inception in 2012, the Nuclear Business Platform (NBP) has served as an avenue for public and private organisations across the globe to learn about the potential of adopting and/or expanding their nuclear power programmes as part of their energy demand and diversification strategy. NBP focuses on assisting primary nuclear stakeholders in gaining access to relevant services/solutions to aid in their nuclear power programmes development.

With strong networks in the energy and utility sectors, we connect our clients with local nuclear stakeholders to explore potential business opportunities. We work with over 350 nuclear companies and government agencies across the nuclear supply chain and provide a tailored approach towards our clients' specific business goals in each region.

At the heart of what we do, we firmly believe that nuclear energy is pivotal in the fight against climate change and countries must include nuclear energy in discussions to achieve decarbonisation and net zero.

NBP is a business unit of Industry Platform, a growth consulting firm based in Singapore. Our consulting framework advocates pursuing an integrated approach in assisting our clients in their growth and development initiatives. This includes market research, and access through business development strategy formulation and execution.

Key services which NBP provides includes: Consultancy, Thought Leadership, Matchmaking and Events & Conferences.

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Connect with us

For more information on the agenda, speaking opportunities and participation options, please contact:

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Foreword

In order to support transition towards a low-carbon future, Latin American countries are planning to introduce and expand their consumption of nuclear energy. The expected significant increase in population coupled with increasing temperatures in parts of the region, has push the region to turn to nuclear energy as a source of clean, reliable and secure source of energy.

Currently, only three Latin American countries have nuclear power plants – Brazil, Argentina, Mexico. However, the share of nuclear in their national energy mixes is extremely low and makes 2% of the total electricity production in Mexico, about 3% in Brazil and around 4% in Argentina. With this in mind, these three countries plan to increase their nuclear energy capacity and plan to build more nuclear power plants.

In February 2022, Argentina signed a contract with China to build the $8 billion Atucha III nuclear power plant using China's Hualong One technology. The deal includes engineering, construction, acquisition, commissioning and delivery of a HPR-1000 type reactor. The new plant will have a gross power of 1,200 MW and an initial useful life of 60 years. Argentina presently operates three nuclear power reactors running on natural uranium – Atucha I, Atucha II and Embalse. The country also develops its own small modular reactor, the CAREM-25 which will have a gross capacity of 32 MW. All the nuclear power plants projects fall under the duties of Nucleoeléctrica Argentina SA, while the SMR project is under the portfolio of the National Atomic Energy Commission (CNEA).

Brazil has two operating reactors, Angra-1 and Angra-2, located at the Central Nuclear Almirante Álvaro Alberto complex. Brazil's 2050 energy plan foresees a new nuclear capacity between 8 and 10 GW to be added to the energy mix which will utilise generation IV technology and SMRs to meet growing national electricity demand. Currently Brazil is taking steps to complete construction of the plant's third unit, Angra-3. Electronuclear, the utility which operates the country's nuclear reactors aims to find a partner by 2023 to help finish and operate Angra-3. An EPC contract is considered the preferred option.

Mexico has two nuclear reactors, Laguna Verde 1 & 2. The two reactors were put into operation in 1990 and 1995 with an initial installed capacity of 675 MW each. In 2015 it increased the power of both units to 120% of the original power (2317 MW). Recently, nuclear generation was re-included into the national energy infrastructure development plan. The Federal Electricity Commission (CFE) is looking into building four nuclear reactors, two more reactors at the Laguna Verde nuclear power plant in Veracruz and two on the Pacific coast. The cost of each 1400 MW reactor, with a lifespan of about 60 years, would be about $7 billion, according to CFE estimates.

Several other countries in the region are also considering the possibility of introducing nuclear energy to their energy mix. In 2010 Chile through its Nuclear Power Committee, proposed four 1100 MW nuclear units to be built. Bolivia declared its intention to explore the nuclear option in 2014 and as a first step have started to build a research reactor which is scheduled to be operational by 2024. Other countries in the region such as Ecuador, Paraguay, Peru and Cuba, have signed nuclear agreements with Russia to help them develop the infrastructure for their respective nuclear power programs.

LATAM NBP Lite 2022

Latin America NBP Lite 2022 will bring together all the key regional nuclear stakeholders to discuss nuclear energy developments at the national level and also cooperation on the international and regional level. Spread over two days, the themes and topics of this virtual meeting have been developed in close consultation with key stakeholders of the industry to ensure that what will be discussed and presented are of great relevance. International suppliers will find these sessions useful in gaining a comprehensive understanding of the Latin America nuclear market and also provide guidance on how best to access this emerging market.

LATAM America Nuclear Energy Landscape

2 Operational NPP:
- LAGUNA VERDE-1
- LAGUNA VERDE-2

They are thinking about adding:
- 2 Units at laguna Verde
- 2 NPPs in the Pacific Coast

Planned NPP:
- Btw 8 to 10 GW by 2050

2 Operational NPP:
- ANGRA-1
- ANGRA-2

Under-construction:
- ANGRA-3

Under-construction Research Reactor

3 operational NPP:
- Atucha I (CNA I)
- Atucha II (CNA II)
- Embalse (CNE)

Under-construction NPP:
- CAREM 25 (SMR) 59%

Planned NPP:
- a new 1100MW Hualong technology
- Candu NPP

Operational Nuclear Power Plant

Planned Nuclear Power Plant

Under Construction

Research Reactor

Research Reactor (under construction)

6 April
2 - 4:30 pm GMT

Day 1 Agenda

zoom

Keynote: Transitioning Latin America to a low-carbon economy

Latest development on new NPPs in Argentina: Proposed 1200MW NPP

José Luis Antunez, President, Nucleoeléctrica Argentina (NA-SA), Argentina (proposed)

Key considerations for adding new nuclear power plants in Brazil

Marcelo Gomes, New Nuclear Power Plant Development Advisor, Eletronuclear

Keynote Panel: Nuclear as a tool to combat climate and sustainably meet energy needs

Strengthening cooperation between Latin American countries to Introduce or Expand Nuclear Power Program

Key discussions points include:

- Insights on the role Brazil, Argentina, and Mexico can play to enhance nuclear infrastructure in the region
- Lessons Learned from previous nuclear power programs in the region
- LATAM newcomers' current plans and areas for potential cooperation

Proposed panellists:

- *Dr. Javier Palacios, Director General, The National Institute for Nuclear Research (ININ), Mexico*
- *Dr. Jaime Salas Kurte, Executive Director, Chilean Nuclear Energy Commission, Chile*
- *Dr. Modesto Montoya, President, Peruvian Institute of Nuclear Energy (IPEN), Peru*
- *Paulo Augusto Berquó de Sampaio, National Nuclear Energy Commission CNEN, Brazil*
- *Guillermo Koutoudjian, Interim Director of Integration, Access and Energy Security, Latin American Energy Organization (OLADE)*

7 April
2 - 4:30 pm GMT

Day 2 Agenda

Small Modular Reactors: A potential game-changer in Latin America

SMRs as an ideal solution for powering remote areas in Brazil: Considering SMRs in Brazil's National Energy Plan 2050
Ministry of Mines and Energy, Brazil (proposed)

Current development status of CAREM-25 and future construction plans for 100MWe construction domestically and internationally
Dr. Adriana Serquis, President, National Atomic Energy Commission (CNEA), Argentina

Overview of Mexico's EnergySector and the Perspective of New Nuclear Power Addition
Heberto Barrios Castillo, Responsible for the Attention of the Affairs of the Undersecretary of Planning and Energy Transition, Ministry of Energy of Mexico, Mexico

Panel: Key regulatory consideration for SMRs adoption in Latin America

Key discussions points include:

- Positive economic impact and job creation through SMR implementation
- Are regulators in Latin America ready and equipped to license SMRs?
- SMR Licencing process, what changes compared to a large reactor?
- Current status of engagement from SMR developers with Latin American countries

Moderator of the panel:
Marcelo Salvatore, Independent Consultant (Former Member of the Board of Directors of NA-SA, Argentina)

Proposed panellists:

- *Dr. Ricardo Gutterres, director of radioprotection and nuclear safety, CNEN, Brazil*
- *Mario Gutiérrez Simón, Minister & Executive Secretary, The Nuclear Radiological Regulatory Authority (ARRN), Paraguay*
- *Orpet Peixoto, Vice President of Trust Council, Brazilian Association for the Development of Nuclear Activities (ABDAN), Brazil*
- *Ronald Alberto Veizaga Baqueros, Executive Director General of Nuclear Technology, Ministry of energy, Bolivia*
- *Dr. Patricia Wieland Vice Chairman of the Board of Management, Empresa Brasileira de Participações em Energia Nuclear e Binacional S.A. (ENBPar), Brazil*
- *Nuclear Energy Directorate, Nuclear Affairs Group, Ministry of Mines and Energy, Colombia*

2022 MEETING DATES

Mark your calendars and join us at NBP's virtual and physical meetings

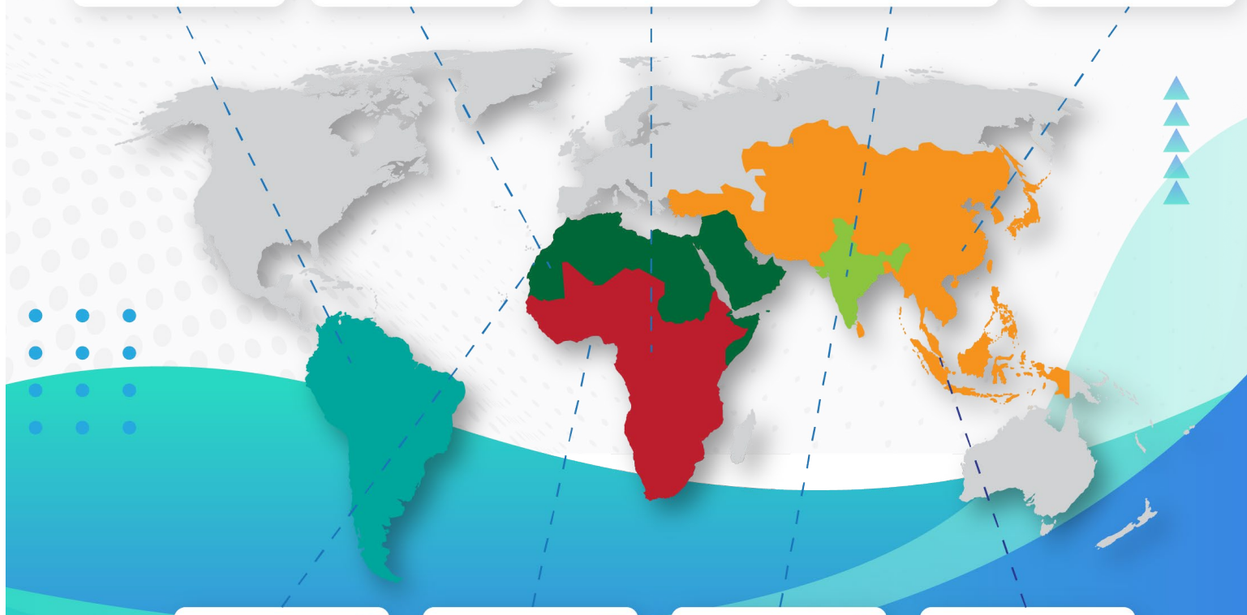
Latin America NBP Lite
Virtual
6-7 April 2022

Arab NBP Lite
Virtual
30 May – 2 June 2022

Africa NBP Lite
Virtual
19-22 April 2022

India NBP Lite
Virtual
26-28 April 2022

Asia NBP Lite
Virtual
24-26 May 2022



Arab NBP
Morocco
22-24 November 2022

Africa NBP
Ghana
4-6 October 2022

India NBP
India
17-19 November 2022

Asia NBP
Singapore
6-8 December 2022

NUCLEAR BUSINESS PLATFORM
Driving Nuclear Developments Across Global Markets

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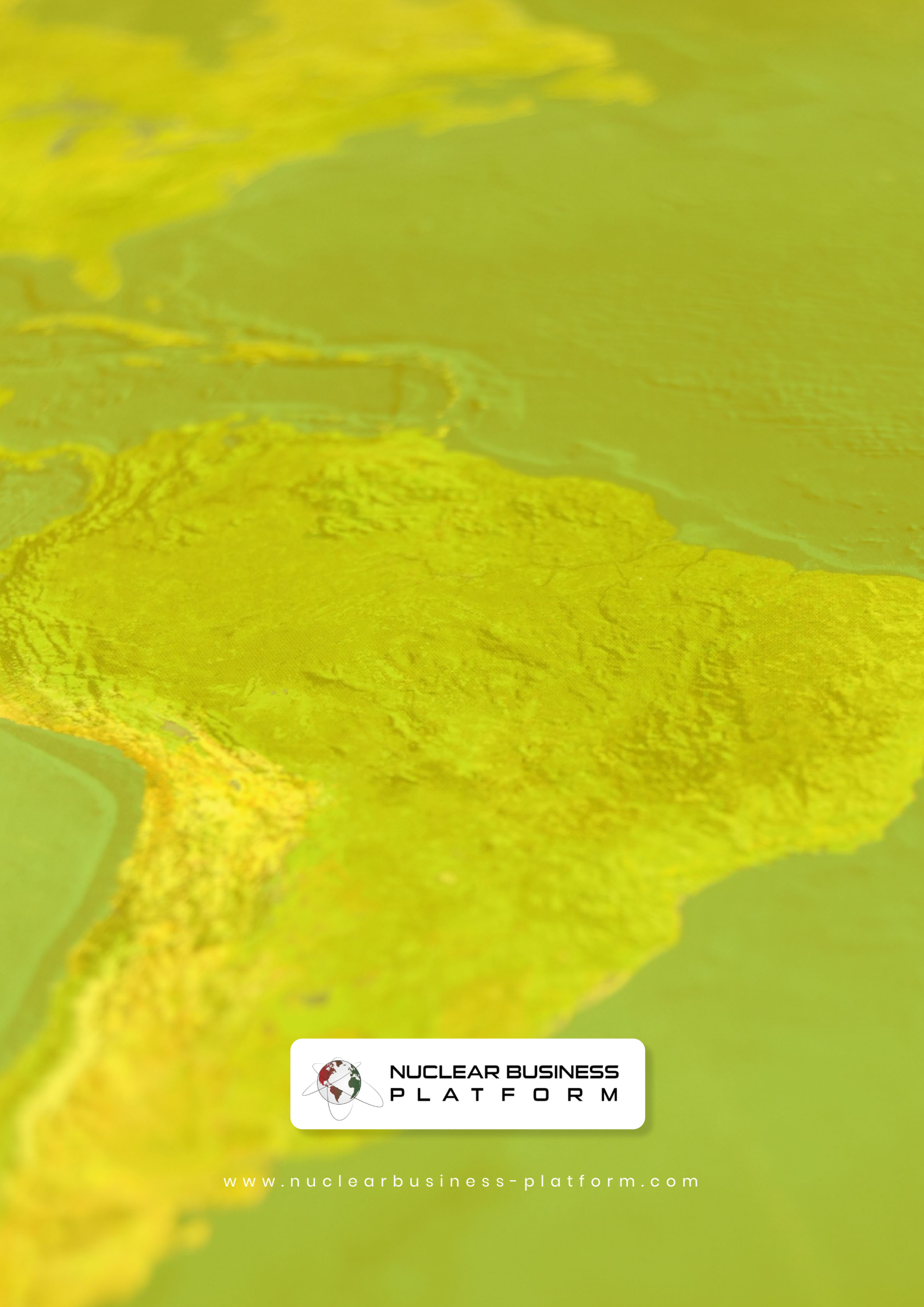

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