

Interregional Workshop on Financial Issues for a Decision in Countries Introducing or Expanding Nuclear Power

October 5-9, 2015

Hosted By: International Programs Section
Argonne National Laboratory
international.anl.gov





THE PURPOSE

Training

PURPOSE

To support decision makers and those responsible for developing and implementing a nuclear programme in Member States considering the introduction of nuclear power to improve the knowledge and develop the skills and abilities needed for success in the introduction of nuclear power, with emphasis on issues relating to the national position and financing of nuclear power plants.

FOCUS

- Providing knowledge of key threshold issues, specifically financing options
- Presentation of case studies of countries who have recently completed or in process of making financial arrangements
- Networking among emerging nuclear power countries and sharing experiences



Participants and Lecturers of this course visited the ANL Exhibit/Museum
Photo Credit: Natalie Wren, Argonne National Laboratory

THE COURSE

Welcome to Argonne National Laboratory

Introduction
to Argonne



Safety at
Argonne



The Lecturers and Staff

Course Leaders: Joe Braun, Argonne National Laboratory

Program Manager: Sunaree Hamilton, Ph.D., Argonne National Laboratory



Paul Ameer



Ahab Abdel Aziz



Christopher Colbert



Guenther Conzelmann



Mark Cunningham



Glenn R. George



Bruce Hamilton



Edward Kee



Giorgio Locatelli



Daniel McGarvey



Paul Murphy



Paul Warren



Joe Braun, Argonne National Laboratory

Course
Leader



Paul Warren, International Atomic Energy Agency

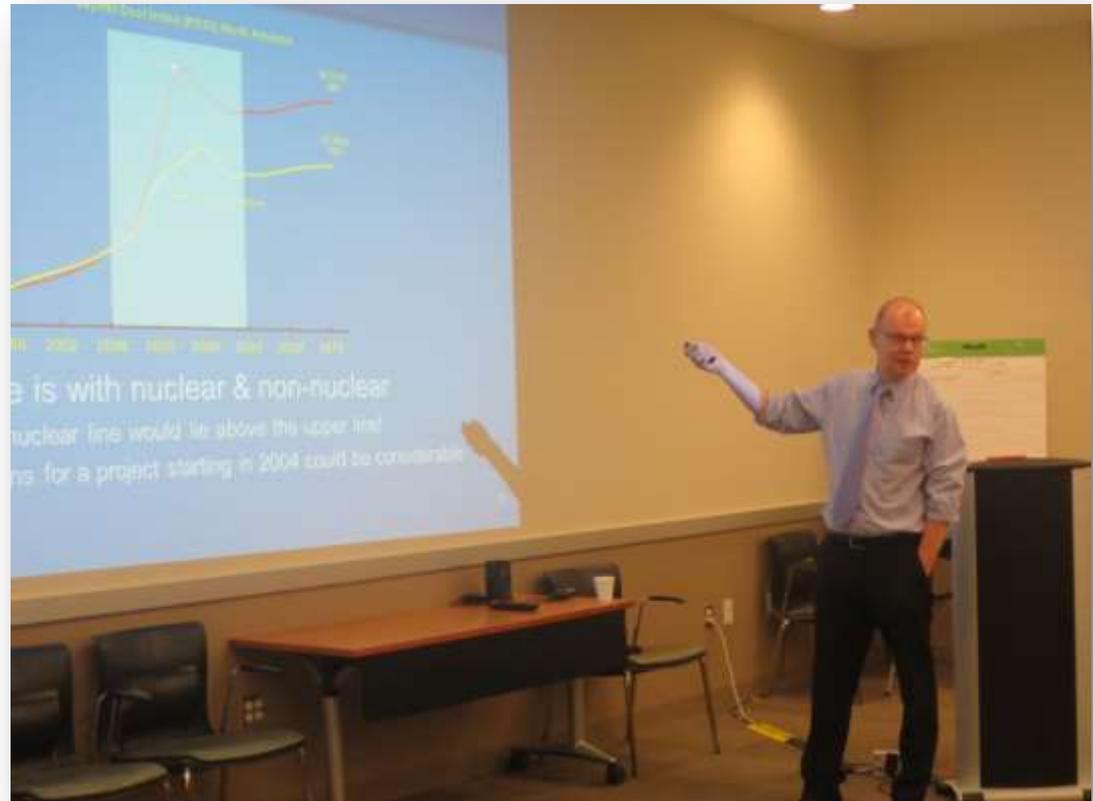
Aspects Influencing
Competitiveness of
Nuclear Power

Planning/Financing
for Radwaste &
Decom

Towards COP21

Risk Allocation in
the EPC Framework

Uranium Supply



Guenter Conzelmann, Argonne National Laboratory

Global and
Regional Energy
Developments:
Status and Trends



Bruce Hamilton, Argonne National Laboratory

Energy System
Analysis for Nuclear
Power Planning

The Prospects for
Baseload and
Nuclear Power

Practical Exercise:
Assessing
Competitiveness of
Electricity
Generation Options



Glenn George, NERA Economic Consulting

Lifecycle
Analysis

Practical
Exercise: US
Loan Guarantee
Program



Paul Ameer, Greengate LLC

Debt Structures:
Considerations
and Refinancing



Edward Kee, Nuclear Economic Consulting

Electricity
Market
Regulation

Power
Purchase
Agreements

Why have
projects
failed?



Giorgio Locatelli, University of Leeds

Megaprojects in
the Energy Field

Stochastic
Financial
Modelling

Economic and
Financial Aspects
of SMRs

Strategic and
Non-monetary
Aspects of SMRs

Load Following
and
Cogeneration
with SMRs



Mark Cunningham, Bayside Risk Management

Nuclear Regulatory
Development,
Process, and
Challenges

Interactions between
the Builder/Operator
and the Regulatory
Body



Daniel McGarvey, Marsh Power and Nuclear Practice

Insurance



Christopher Colbert, NuScale Power, LLC

SMR:
Vendor
Perspective



Paul Murphy, Milbank, Tweed, Hadley & McCloy LLP

Project Diligence
by Financing
Entities

Country Risk
Factors

Reputational
Risk Factors

Contracting
Structures



Ahab Abdel-Aziz, Gowling Lafleur Henderson LLP

Key Risks in NPP
development &
financing

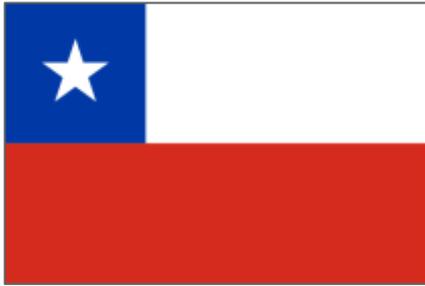
Practical Exercises:
UK CfD and Loan
Guarantee
Programs



Post Three Mile Is

...nce in nuclear power declined
...clear groups demonstrated fictitious meltdown
...ss U.S. and in many European nations
...lear power in North America and much of
...d or evaporated
...ent
...political sentiment
...intensity of regulatory scrutiny, without
...asures were directed at accident
...s in an intensified regulatory environment

THE PARTICIPANTS



Jorge Nicolas Cepeda Abad Chile





Ms Barbara
Isabel Nagel-
Araya
Chile





Nii Kwashie
Allotey
Ghana





Seth Kofi Debrah Ghana





Paido Siahaan Indonesia





Harini Wahyuningrum Indonesia





Jad Alrabadi

Jordan





Ayman Salameh Jordan





Laurynas Jocys Lithuania





Mindaugas
Mikalonis
Lithuania





Alpheus Tiemo Nigeria





Lorna Dy Philippines





Mohamed
Bassam Ben
Ticha
Tunisia





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THANK YOU