

E-learning for Newcomers on the IAEA Milestones Approach

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IAEA

International Atomic Energy Agency

Background to E-learning modules

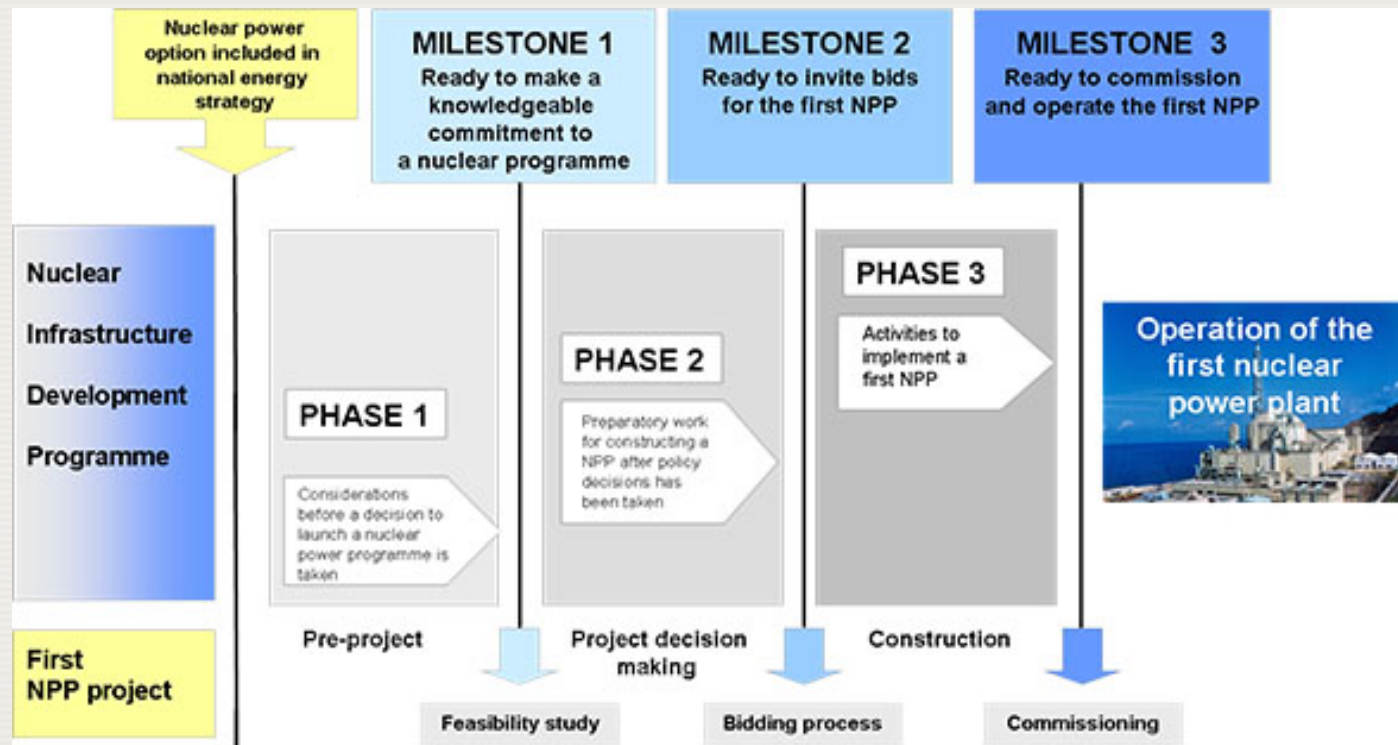
- Member States requesting assistance in introducing nuclear power programs
- Implement training for a broad audience at an overview level
- Foundation to better understand the IAEA Milestones approach
- MS may have problems providing satisfactory (nuclear) Education and Training
- Funded by Republic of Korea

Background to E-learning modules

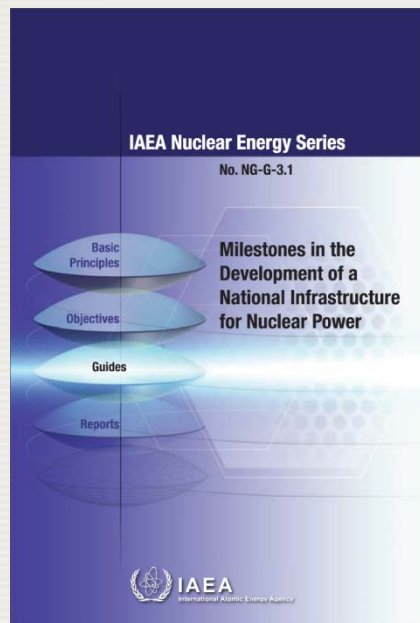
- MS may have problems providing satisfactory (nuclear) Education and Training due to
 - Lack of prior need/interest (newcomers)
 - Inadequate long-term planning
 - Low levels of funding and other resources
 - Lack of suitable infrastructure

Infrastructure development and the Milestones Approach

- Developing the infrastructure to introduce nuclear power is a complex programme



The 19 Infrastructure issues and related issues



The 19 Infrastructure Issues

National position

Nuclear Safety

Management

Funding and financing

Legislative framework

Safeguards

Regulatory framework

Radiation protection

Electrical grid

Human resources development

Stakeholder involvement

Site and supporting facilities

Environmental protection

Emergency planning

Security and physical protection

Nuclear fuel cycle

Radioactive waste

Industrial involvement

Procurement

Related issues

Milestones approach overview

Construction management

SAT

Feasibility study

Management Systems

Target audiences

- Decision makers, advisers and senior managers in the governmental organizations, utilities, industries, and regulatory bodies of a country interested in developing nuclear power
- Other organizations, such as donors, suppliers, nuclear agencies, and operator organizations
- New countries and organizations who are planning to start co-operation with Agency
- Participants of the IAEA events (missions, workshops, technical meetings, consultancy meetings, training courses etc.)
- For internal training use in different type of organizations (to support internal training, including within the IAEA itself)
- People who are new to the approach, for example students (to understand “the big picture”)

The results...so far



Implementing a Nuclear Power Programme



Developing a Human Resource Strategy



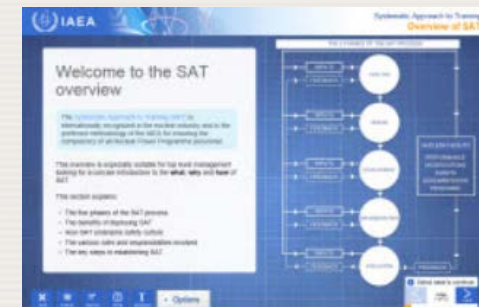
Stakeholder Involvement



Management of a Nuclear Power Programme



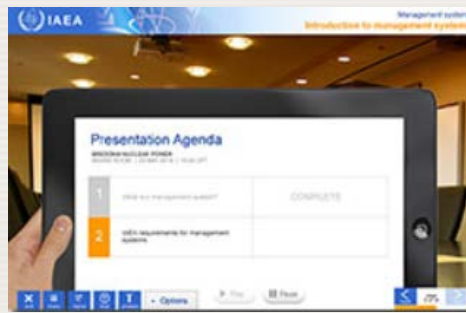
Construction Management



Systematic Approach to Training (SAT)



Feasibility Study



Management Systems



Safety Infrastructure



IAEA

Coming up during 2014

- Emergency Preparedness and Response (July)
- Safeguards (August)
- Spent Fuel and Waste Management (November)

Increasing use of the e-learning modules

- Top 10 users April 2014

- United States,
- United Kingdom
- South Korea
- China
- Sweden
- Japan
- France
- India
- Egypt
- Indonesia

- Other Big users past 12 months

- Vietnam
- Turkey
- Malaysia
- Kenya
- Poland
- UEA
- Nigeria

SAT – an example of how the e-learning is used

- Sweden
 - Introduction within new Training Programme for Instructors (classroom and simulator) and Managers at different levels (Nuclear and Safety Training Company KSU)
 - Training staff, HR-department and managers at the NPPs
- UK
 - EdF Energy's new build training team

Making information accessible to a broader audience via modern platforms

- Downloadable in near future for off-line use
- <http://www.iaea.org/NuclearPower/Infrastructure/elearning/>



The screenshot displays the IAEA Nuclear Power (NENP) website. The header features the IAEA logo and navigation links for 'About Us', 'Our Work', 'News Centre', 'Publications', and 'Nucleus'. A search bar is also present. The main content area is titled 'Nuclear Power (NENP)' and includes a sidebar with a 'Division of Nuclear Power' menu. The primary focus is on 'E-learning for Nuclear Newcomers', which includes a video player with the text 'Is your country considering nuclear power? The IAEA is here to help!'. Below this, 'E-learning Modules' are listed, including 'Module 1: Implementing a Nuclear Power Programme' and 'Module 2: Developing a Human Resource Strategy'. A social media link for '@IAEAENE' is also visible.