

Fact Sheet on Nuclear power infrastructure and planning

What is the activity or service provided?

Specific assistance to individual requests, tailor made to customer's needs and requirements, implemented at location, focused on infrastructure issues of the requesting organizations through:

- Evaluation of the available infrastructures
- Proven practices that can serve as models to solve specific issues
- Practical guidance for implementation of identified actions
- Specialized support on topics such as:
 - Assessing the project/programme implementation status and recommend an action plan
 - Preparation of the tendering documents to select a consultant to assist in the implementation of specific phases of the programme
 - Preparation of the feasibility studies for NPPs
 - Preparation of the site development programme
 - Preparation of the bid invitation specifications for NPP and evaluation of the bids
 - Tasks and resources needed for the implementation of a NPP
 - Nuclear power project management

What are the benefits?

- Improved development of infrastructure and institutional arrangements for nuclear power
- Building the capability to perform Owner's functions for a nuclear power programme or project
- Increased competence in organizations involved in planning, operating or regulating nuclear activities and facilities,
- Sharing and disseminating world experience in nuclear power development and implementation

How to benefit of this activity?

Requesting an advisory/ review mission, a national project, joining a regional project, etc.

Main strengths of the services:

- Sharing best international experience
- Recognized qualification and credibility
- Providing impartial assistance
- On a non-profit basis

Looking ahead:

- There are several stages in the process of introducing nuclear power in a country. These include feasibility studies; technology evaluation; request for proposals and proposal evaluation; project and contracts development and financing; supply, construction, and commissioning; and finally operation. The IAEA is developing guidance directed to provide criteria for assessing the minimum infrastructure necessary for:
 - A host country to consider when engaging in the implementation of nuclear power, or
 - A supplier country to consider when assessing that the recipient country would be in an acceptable condition to begin the implementation of nuclear power.

- There are Member States that may be denied the benefits of nuclear energy if the infrastructure requirements are too large or onerous for the national economy. However if co-operation could be achieved, the infrastructure burden could be shared and economic benefits gained by several countries acting jointly. The IAEA is developing guidance on the potential for sharing of nuclear power infrastructure among countries adopting or extending nuclear power programme.

Other Information:

Target customers of this service:

- Decision makers and advisors from governmental organizations such as: Regulatory Bodies, Ministries, Research & Development Organizations, and others.
- Managers and Engineers from owner's organizations carrying out nuclear activities and operating facilities.
- Managers from technical support organizations.

Other material:

List of related IAEA publications (attachment)

For more information please contact your IAEA TC Country Officer or

Mr. Marius Condu
Mr. Nestor Pieroni
Nuclear Power Engineering Section
Division of Nuclear Power
International Atomic Energy Agency
Wagramer Strasse 5. P.O. Box 100
1400 Vienna, Austria
Tel: +43 1 2600 22798
Fax: +43 1 2600 29598
Email m.condu@iaea.org

Further information is available on the Departmental website,

<http://www.iaea.org/OurWork/ST/NE/index.html>