

**2374-10**

**Joint ICTP-IAEA School of Nuclear Energy Management**

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**Introduction to Power Reactor Information System (PRIS)  
and  
Country Nuclear Power Profiles (CNPP)**

MANDULA Jiri  
*International Atomic Energy Agency  
Division of Nuclear Power  
Nuclear Energy Department  
Wagramerstrasse 5  
P.O. Box 100  
AUSTRIA*



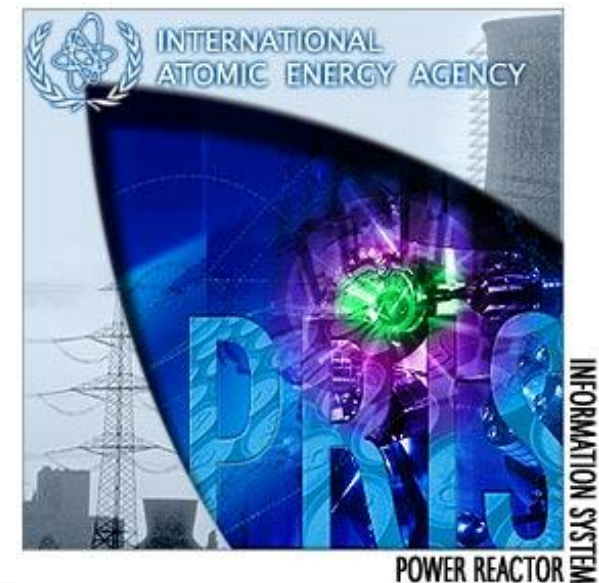
**International Atomic Energy Agency**

**Introduction to  
Power Reactor Information System (PRIS)  
and  
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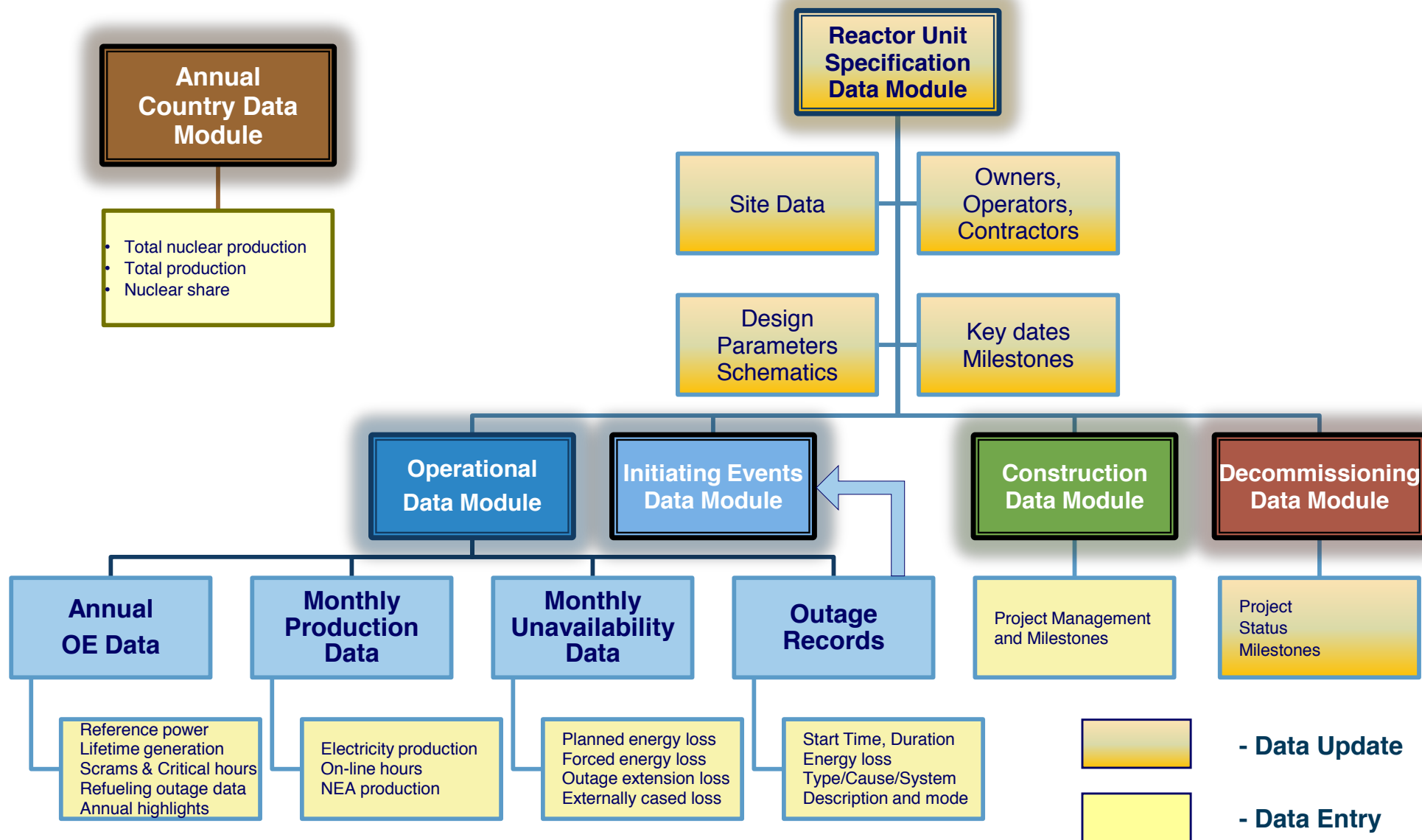
**Jiri Mandula  
NPES, Division of Nuclear Power**

# What is PRIS?

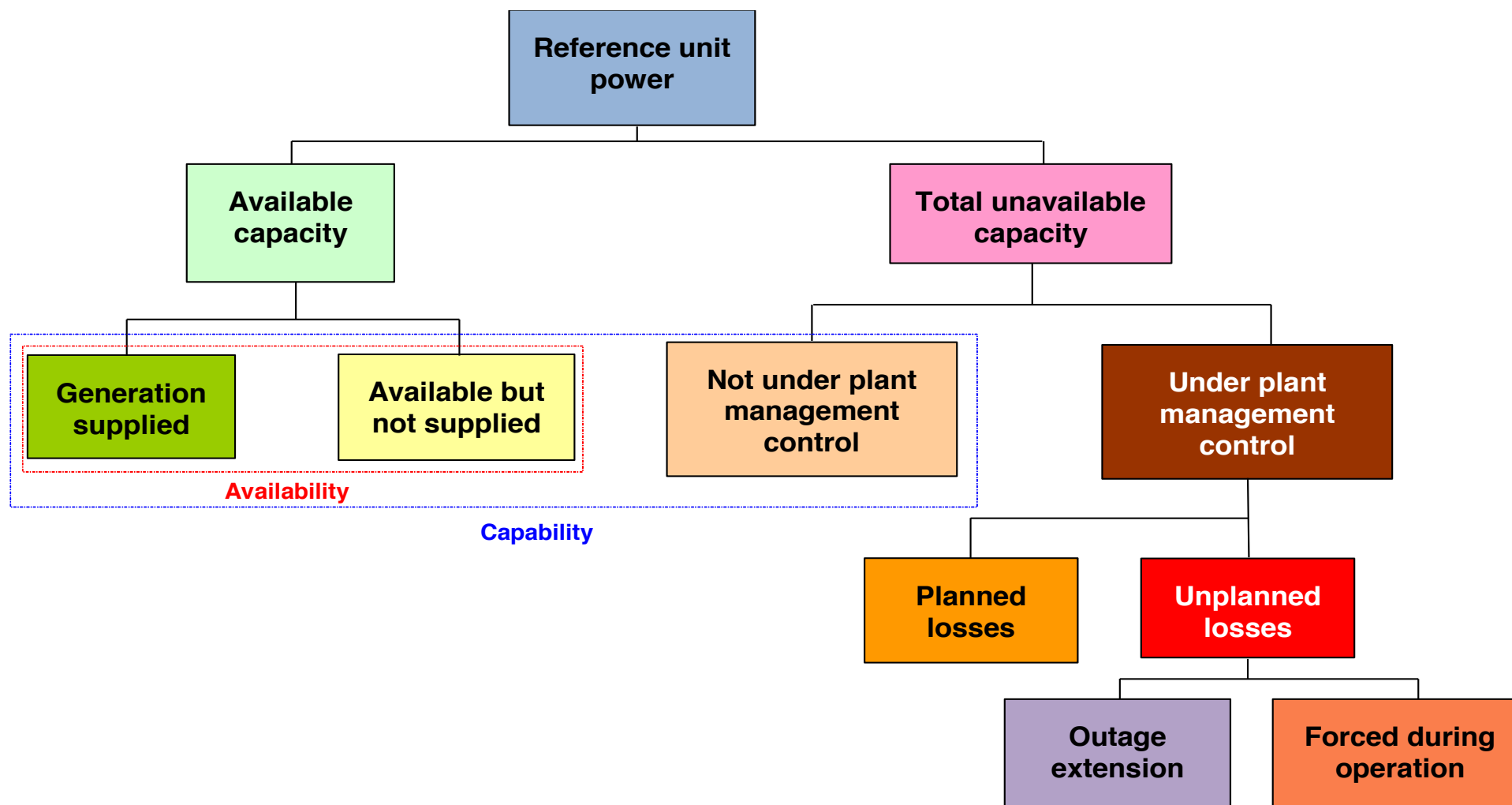
- The most complete databank on nuclear power reactors in the World
- Reference data source used worldwide
- 40 years experience in data collection on nuclear power status and performance
- Publications and analyses
- Comprehensive reporting system
- Modern on-line communication
- Team of collaborators



# PRIS Data Modules



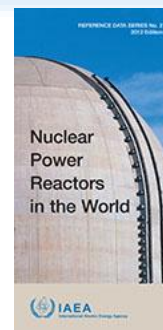
# Performance data model



# PRIS Outputs



Publications



**NPR in the World**  
since 1981  
~2000 pageviews/month



**Operating Experience with NPP**  
since 1970  
(now on CD)  
~1000 pageviews/month

WEB Applications



**PRIS**  
Public website  
[www.iaea.org/pris](http://www.iaea.org/pris)  
~ 5000 visits /month

<http://www.iaea.org/pris> (PRIS PUBLIC)  
Dashboard

1 Apr 2012 - 30 Apr 2012  
Comparing to: Site



Site Usage

7,538 Visits

62.51% Bounce Rate

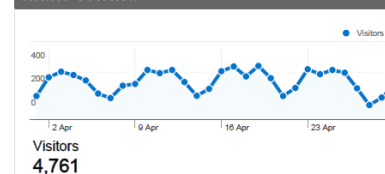
13,980 Pageviews

00:02:13 Avg. Time on Site

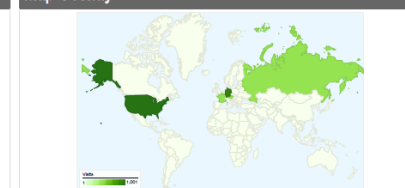
1.85 Pages/Visit

55.16% % New Visits

Visitors Overview



Map Overlay



**WEDAS**  
Data Entry  
[prisweb.iaea.org](http://prisweb.iaea.org)



**PRISTA**  
Statistical Reports  
[prisweb.iaea.org/statistics](http://prisweb.iaea.org/statistics)  
~ 1000 visits /month

International Atomic Energy Agency

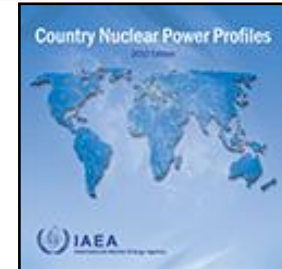


# What PRIS provides?

- Monitoring of reactor status and its changes
- Historical development of nuclear power
- NPP specification and design characteristics
- NPP performance analyses using well defined and internationally accepted indicators
- Trend analyses
- Industrial standards – average, median, quartiles
- Process of reactor decommissioning



# What is CNPP?



- Database/website and publications
- Integrated source of background information about energy situation and nuclear power programs in Member States
- Standardised reports - descriptive and statistical overview



# Objectives of CNPP

- **Consolidation of information** on status and development of nuclear power and its infrastructures in Member States
- Presentation of **factors** on effective planning, decision-making, and implementation of nuclear power programmes
- To review the **organizational and industrial aspects** of nuclear power programmes
- To provide information about the relevant **legislative, regulatory and international frameworks**
- To compile the **current issues** in the new environment within which the electricity and nuclear sector operates
- To support **experience sharing**
- To promote transparency and openness and contributes to the **public acceptance** of civilian nuclear programmes

# Focus and Coverage

## ■ Focus

- Energy, economic and electricity information
- Nuclear Power situation including NP infrastructure and organizational framework
- National Laws and Regulations
- Current issues and development in Nuclear Power

## ■ Coverage

- MS with NPP
- MS considering nuclear power

# Latest edition of CNPP

## 2012 edition:

- 51 profiles
- 29 countries operating nuclear power plants
- 22 countries having past or planned nuclear power programmes

Bangladesh, Belarus, Chile, Egypt, Ghana, Indonesia, the Islamic Republic of Iran, Italy, Jordan, Kazakhstan, Kuwait, Lithuania, Morocco, Nigeria, Philippines, Poland, Syrian Arab Republic, Thailand, Tunisia, Turkey, United Arab Emirates and Vietnam

*Drafted but not published: Algeria, Malaysia*

# CNPP Web-based Publication

http://www-pub.iaea.org/MTCD/Publications/PDF/CNPP2012\_CD/pages/index.htm

File Edit View Favorites Tools Help

IAEA Country Nuclear Power Profiles 2012 Edition

CNPP Feedback

Argentina	China	Indonesia	Mexico	Slovakia	Turkey
Armenia	Czech Republic	Iran, Islamic Republic Of	Morocco	Slovenia	Ukraine
Bangladesh	Egypt	Italy	Netherlands	South Africa	United Arab Emirates
Belarus	Finland	Japan	Nigeria	Spain	United Kingdom
Belgium	France	Jordan	Pakistan	Sweden	USA
Brazil	Germany	Kazakhstan	Philippines	Switzerland	Vietnam
Bulgaria	Ghana	Korea, Republic of	Poland	Syrian Arab Republic	
Canada	Hungary	Kuwait	Romania	Thailand	
Chile	India	Lithuania	Russia	Tunisia	

This map is a graphical tool and does not delimit exact territorial boundaries or reflect legal statuses of nations.

[http://www-pub.iaea.org/MTCD/Publications/PDF/CNPP2012\\_CD/pages/index.htm](http://www-pub.iaea.org/MTCD/Publications/PDF/CNPP2012_CD/pages/index.htm)

