

**IAEA Perspectives  
New Entrant Regulatory Programmes**

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International Atomic Energy Agency

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**Agenda**

- Global Context
  - Nuclear Performance Trends
  - Global Nuclear Power Projections
  - Where are the Potential New Entrants?
- New Regulatory Programmes
  - National Infrastructure Development
  - Achieving Regulatory Effectiveness
  - Safety and Security Integration
- IAEA Roles and Support
  - Global Nuclear Safety and Security Regime
  - Legal Instruments
  - Standards, Services, Networks
  - Support Programmes
- Conclusions

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**Global Context**

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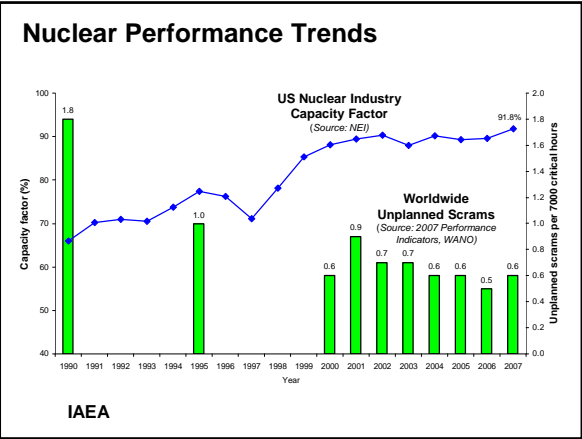
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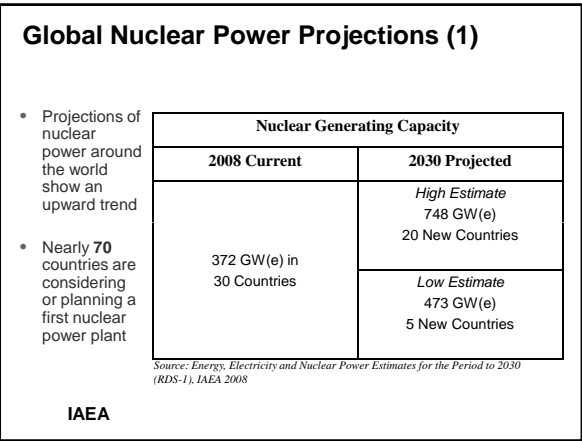
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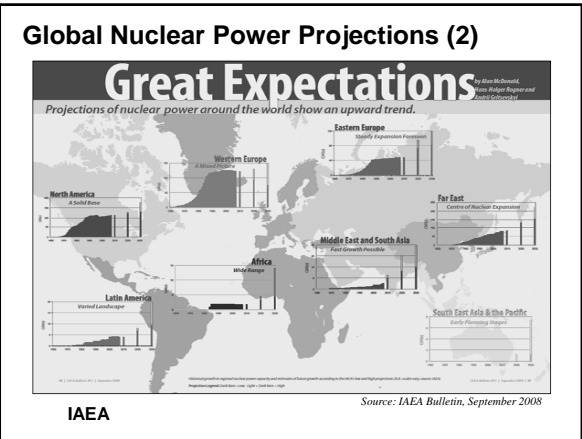
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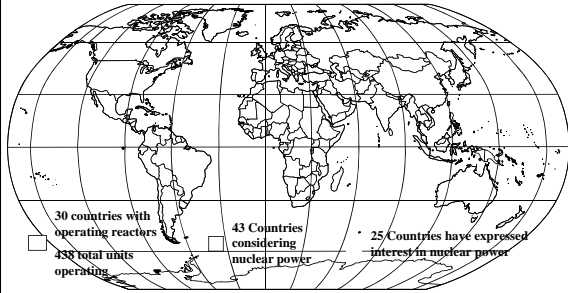
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## Where are the Potential New Entrants?



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## New Regulatory Programmes

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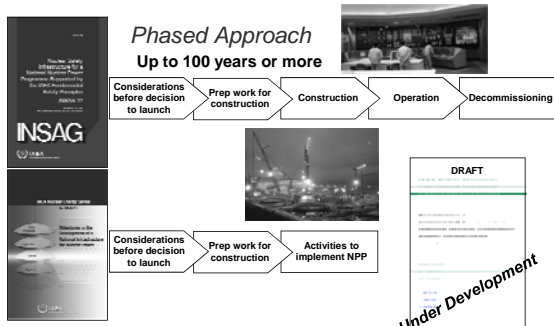
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## National Infrastructure Development (1)



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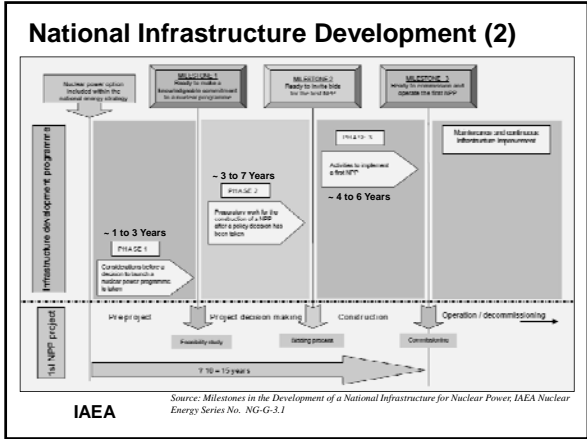
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- ### National Infrastructure Development (3)
- Key Infrastructure Issues*
- National position
  - Nuclear safety
  - Management
  - Funding and financing
  - Legislative framework
  - Safeguards
  - Regulatory framework
  - Radiation protection
  - 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
- All issues affect safety to some extent**
- IAEA**

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- ### Achieving Regulatory Effectiveness
- Challenges*
- Human resources
  - Separation and independence
  - Openness and transparency
  - New reactor licensing
  - Addressing multinational and multicultural aspects
  - Safety and security integration
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- IAEA**

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## Safety and Security Integration

*“Safety measures and security measures must be designed and implemented in an integrated manner so that security measures do not compromise safety and safety measures do not compromise security.”*

- IAEA Fundamental Safety Principles



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## IAEA Roles and Support

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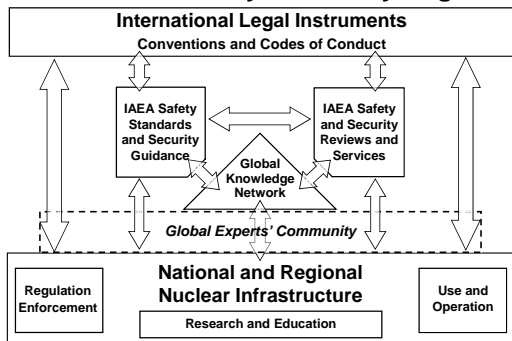
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## Global Nuclear Safety & Security Regime



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### International Legal Instruments

- Safety and security conventions
  - Convention on Nuclear Safety
  - Joint convention
  - Early Assistance and Notification Conventions
  - Convention on the Physical Protection of Nuclear Material
  - International Convention for the Suppression of Acts of Nuclear Terrorism
- UN Security Council Resolutions 1373 and 1540
- Codes of conduct
- New entrants should participate in these instruments



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### IAEA Standards, Services, and Networks (1)

#### IAEA Safety Standards



- Commission on Safety Standards (CSS)
- Nuclear Safety Standards Committee (NUSSC)
- Radiation Safety Standards Committee (RASSC)
- Transport Safety Standards Committee (TRANSSC)
- Waste Safety Standards Committee (WASSC)



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### IAEA Standards, Services, and Networks (2)

- Peer review and advisory services
  - Integrated Regulatory Review Service (IRRS)
  - Operational Safety Review Teams (OSART)
  - International Nuclear Security Advisory Services (INSServ)
  - International Physical Protection Advisory Service (IPPAS)
- Global and regional knowledge sharing networks
  - International Regulators Network
  - G8 Global Nuclear Safety Network
  - ANSN (Asian Nuclear Safety Network)
  - FORO (Foro de Regulatorios de Organismos Regulatorios Nucleares)
  - Other thematic networks

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### **IAEA Support Programmes**

- Response to assistance requests for:
  - Launching a first nuclear power programme
  - Expanding a small nuclear power programme
- Support in the areas of:
  - Design and siting reviews
  - Construction, commissioning and quality assurance
  - Operations
  - Security
  - Emergency preparedness and response
  - Licensing
  - Decommissioning and waste management

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### **Conclusions**

- Nuclear power programmes are a lifetime commitment (up to 100 years or more)
- National responsibility for safety and security cannot be outsourced or compromised
- Participation in the Global Nuclear Safety and Security Regime is essential
- Wealth of international knowledge and experience to be widely shared

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