IAEA's Energy Assessment Tools for Sustainable Energy Development

ECOWAS-GFSE-GEF-UNIDO

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IAEA
International Atomic Energy Agency
Energy holds the power...

- "... with availability of modern energy, life changes"
IAEA...

- ...assists countries to build national capacity and expertise in energy system analysis and planning, so that countries are able to chart out their own national energy strategies.
IAEA 's Energy Assessment Tools

- **MAED**
  - Energy Demand Analysis

- **MESSAGE**
  - Energy Supply Analysis

- **WASP**
  - Power Generation Analysis

- **FINPLAN**
  - Financial Analysis of Expansion Plans

- **SIMPACTS**
  - Environmental Impacts

- **EBS**
  - Energy Balances

- **ISED**
  - Sustainability Indicators
IAEA's Capacity Building

- Transfer tools to and train local experts
- Distance learning and hands-on training
- Expert missions and fellowships
- Constant online support to the users
- Technical guidance and assistance in conducting national studies
- Support institutions building for energy planning
- Regular model updates
- Multilingual user interface tools and eLearning
- Teachers' trainings
Application of IAEA's Tools
IAEA's Capacity Building in Africa

- National energy planning projects
- After WSSD in 2002 more attention diverted to Africa
- Regional projects (IAEA-AFRA)
  - Evaluation of energy opportunities at regional level
  - Strengthening regional integration, taking into account accessibility and affordability of energy, security of supply and environmental protection
  - Provide tools to improve and support regional cooperation and decision making
- IAEA partners and cooperates with other initiatives and institutions
Way Forward?

- Energy needs are increasing
- Difficulties in providing energy services are enormous
- Timely planning activities have to consider all energy supply and demand options
- Regional cooperation brings benefits to all parties concerned
- IAEA offers analytical framework, continuous capacity building and support for energy systems assessments and development of regional and national energy strategies, plans and actions
... atoms for peace.