The Electric Power Research Institute

Together…Shaping the Future of Electricity

NICARAGUAN ENERGY INSTITUTE (INE) / NARUC visit
September 18, 2009
Our History…

• Founded by and for the electricity industry in 1973

• Independent, nonprofit center for public interest energy and environmental research

• Collaborative resource for the electricity sector

• Major offices in Palo Alto, CA; Charlotte, NC; Knoxville, TN
  – Laboratories in Knoxville, Charlotte and Lenox, MA

Chauncey Starr
EPRI Founder
Our Members…

• 450+ participants in more than 40 countries

• EPRI members generate more than 90% of the electricity in the United States

• International participation provides more than 15% of EPRI’s research, development and demonstration funding
Sampling of Recent EPRI Clients in Europe/Mideast/Africa

“NORTHERN” EUROPE
- Barseback Kraft AB
- British Petroleum
- British Energy
- Dong Energy
- EdF
- E.ON UK
- EnBW Kraftwerke
- Elect. Supply Board of Ireland
- Forsmarks Kraftgrupp AB
- IEA Greenhouse R&D Prog.
- Institute fur Energiteknikk
- IntelligeNDT Systems
- KEMA
- Nat. Grid Elect. Transmission
- Nat. Grid Property Holdings
- OKG Aktiebolag
- Rolls Royce Marine Power
- RWE Npower plc
- RWE Power AG
- Swedish Nucl. Pwr. Inspectorate
- Vattenfall AB
- VGB PowerTech

“SOUTHERN” EUR.
- Ansaldo Energia
- Electrabel N.V.
- ELIA SA
- ENDESA
- ENEL
- ENRESA
- ENUSA
- Iberdrola
- Labelec
- Public Power Corp (Greece)
- Red Electrica
- Sogin
- Technatom
- TERN
- Tractebel Ene. Engineering
- UNESA
- Union Fenosa

MIDEAST/AFRICA
- Saudi Aramco
- ESKOM
- Kahramaa Qatar Gen. Electricity
- NamPower

“CENT./EASTERN” EUROPE
- ABB Limited
- BKW FMB Energie AG
- Kernkraftwerk Goesgen-Daeniken
- Kernkraftwerk Leibstadt
- Krsko Nucl. Power Plant
- NOK
- NucL. Res. Inst. REZ
- Paul Scherrer Institute
- PSE-Operator S.A
- Slovenske Elektrame AS
Sampling of Recent EPRI Clients in Asia/Pacific Region

**CHINA**
- China Southern Power Grid
- Chongqing Electric Power
- Daya Bay Nuclear Power Ops.
- Electric Power of Henan
- Huaneng Power International
- Sichuan Electric Power

**INDIA**
- Power Grid Corp. of India

**THAILAND/MALAYSIA/SINGAPORE/INDONESIA**
- EGAT
- Malakoff
- Provincial Elect. Authority
- PT. Pembangkitan Jawa Bali
- Tenaga Nasional Berhad

**KOREA**
- Doosan Heavy Industries
- GS EPS
- KEPCO (& all 6 genco subs)

**JAPAN**
- Chubu EP Co.
- Chugoku EP Co.
- CRIEPI
- EPDC
- Hitachi Ltd
- Hokkaido EP Co.
- Hokuriku EP Co.
- IHI
- JAPC
- JNES
- Kansai EP Co.
- Kyushu EP Co.
- MHI
- Nuclear Fuel Industries
- Shikoku EP Co.
- Sumitomo Metal
- TEPCO
- Tohoku EP Co.

**TAIWAN**
- Atomic Ene. Council
- Taiwan Power Corp.

**AUSTRALIA/NZ**
- ATCO
- Australian Govt.
- Contact Energy
- CS Energy, Ltd.
- Delta Electricity
- Eraring Energy
- Ergon Energy
- Genesis Power
- Meridian Energy
- Millmerran
- Powerlink Queensland
- Rio Tinto Limited
- Stanwell Corp. Ltd.
- Tarong Energy Corp.
- Transgrid Ltd.
- Transpower
- TRUenergy Yallourn
- Verve Energy
Sampling of Recent EPRI Clients in the Americas

USA (partial – coal related)
- AES Corporation
- Allegheny Energy
- Alliant Energy
- Ameren
- AEP
- Basin Electric
- Buckeye Power, Inc.
- Constellation Energy
- Consumers Energy
- CPS Energy
- Dairyland Power
- Detroit Edison
- Dominion
- Duke Energy
- Dynegy
- E.ON US
- Exelon
- FirstEnergy
- Great River Energy
- JEA

CANADA
- Nova Scotia Power, Inc.
- Ontario Power Generation, Inc.
- SaskPower
- TransAlta Energy Corp.

MEXICO
- Comision Federal de Electricidad (CFE)

PERU/VENEZUELA
- COES-SINAC
- C.V.G. Electrificacion Del Caroni
- C.A. (EDELCA)

BRAZIL
- CTEEP - Companhia de Transmissio
- Eletrobras Termonuclear S.A.
- Operador Nacional do Sistema Eletrico (ONS)
- Petroleo Brasileiro S.A. (Petrobras)
- Tractebel Energia
Our Mission…

To conduct research on key issues facing the electricity sector…on behalf of its members, energy stakeholders, and society.
Our Role…

Help Move Technologies to the Commercialization Stage…

Basic Research and Development

Collaborative Technology Development Integration Application

Technology Commercialization

National Laboratories
Universities

EPRI

Suppliers Vendors

Technology Accelerator!
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EPRI…the Power of Collaboration…

Delivering greater value for our members’ investment…

• Helps reduce the associated costs and risks of technology development, delivery, and commercialization

• Collaborative model shares the ideas, expertise, and valued experiences of EPRI membership

• Costs and benefits are shared among EPRI members

• Ultimate goal is to ensure society’s energy needs are met cleanly, efficiently, and economically
WORKING TO...

...KNOW THE INDUSTRY CHALLENGES...

...UNDERSTAND OUR MEMBERS’ NEEDS...

...TO HELP PROVIDE THE BEST SOLUTION!

“TOGETHER... SHAPING THE FUTURE OF ELECTRICITY”
Together...Shaping the Future of Electricity