

## 20/20 Vision:

## Building tomorrow's power system today

The 20th Anniversary Canadian Power Conference and Power Networking Centre

Canada's leading power generation event

November 18 and 19, 2008 Metro Toronto Convention Centre, South Building Toronto, Ontario



# Show Guide Power Networking Centre

http://conference.appro.org





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## Bruce Power Visitors' Centre

Located on the shores of Lake Huron, the Bruce Power Visitors' Centre invites you to learn about nuclear power generation through films, interactive displays and exhibits.

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## energy for a new generation

# APPro 2008

## **20/20** Vision:

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The 20th Anniversary Canadian Power Conference and Power Networking Centre

### November 18 and 19, 2008 Metro Toronto Convention Centre, South Building Toronto, Ontario

## **Conference and Power Networking Guide**

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#### Association of Power Producers of Ontario

APPRO

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## innovate.

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When you're ready to innevets and integrate your energy and climate change needs, contect us. We're ready and available, right here at APPrO's Canadian Power Conference.

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## APPro 2008 President's message

A view into the future, turning 20-plus years of experience in the power industry into workable options for what lies ahead: The APPrO conference this November will exemplify the crucial, direction-setting point in its history the power industry has reached in 2008. Ten years after Bill 35, which introduced fundamental change in the electricity sector to Ontario, and twenty years after the first APPrO power conference, this event will be an unmatched opportunity to learn what will make the next several decades different from the last — and to find solutions that will make sure development continues to move forward in an efficient and effective direction. As the pace of innovation accelerates, knowing how to distinguish the blips from the truly transformative will become a key part of successful development.

#### The APPrO 2008 event will address the top issues of the day, including:

- How new technology will affect the course of sector development
- Building major transmission under Ontario's new rules
- Nuclear development success factors and current regulatory issues
- What needs to be built into the next IPSP, a year from now?
- Fine-tuning the OPA's procurement programs
- Practical mechanisms for meeting GHG emission limits
- Building a workforce that's ready for the coming challenges
- What smart grid applications are likely to take hold in the next few years?



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Dear APPrO Delegates, Sponsors and Speakers,

I would like to welcome you again to APPrO 2008 — the Canadian Power Conference and Networking Centre. This year we celebrate 20 years of providing our delegates with valuable insights on the challenging issues and key questions of the day in the power generation business. Our mission remains the same — ensuring that power generators can operate successfully in Ontario's market and compete successfully in Ontario's generation procurement processes.

Investment in new generation in Ontario is on the upswing. Ontario has achieved significant success in procuring new generation and APPrO continues to make the voice of generators heard as critical choices are made in the development of the system.

While Ontario's Integrated Power System Plan is currently before the Ontario Energy Board, much must still be done to define the specific plans, put the necessary investments in place, and ensure generation and transmission facilities siting permits and approvals take place. Furthermore, the direction and pace of evolution of Ontario's electricity market remain unclear. In addition, climate change has become a major factor in electricity. At APPrO 2008 we will discuss, collaborate, learn and equip ourselves to pave the best way forward.

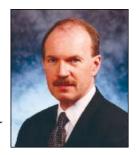
APPrO 2007 continued to break our attendance records and in order to ensure the comfort of our growing numbers of delegates we have expanded our meeting space at the Metro Toronto Convention Centre for 2008. Our refocusing of our trade show — now the Power Networking Centre — has been a great success and we continue to work with our exhibitors and sponsors to ensure delegates are provided with plenty of networking areas and informative content. This year we plan to broaden the scope of the Power Networking Centre, with additional sessions on the cutting edge technologies and innovations - all inside the exhibit hall.

In honour of our Platinum Anniversary APPrO is proud to hold its first Zero Waste event. With the help of our Green Power sponsor, Toronto Hydro Energy Services, all electricity used at the conference will be green-sourced. The Zero Waste initiative with the Metro Toronto Convention Centre will endeavour to ensure that the production of the event will bear minimal waste and that any waste produced can be recycled.

APPrO welcomes you to the leading event of its kind in the industry. Take advantage of the opportunities to develop your business with our delegates — the key people in the power sector. Topics will be timely and speakers knowledgeable. Be sure to check our conference program online as we get closer to the date.

Mark your calendar now and ensure your place at the centre of the action with those who know and those who come to learn. Join us at APPrO 2008 on the 18th and 19th of November at the Metro Toronto Convention Centre.

Sincerely, David Butters, President of APPrO



Program

#### Program overview:

Day 1: Historic changes Opening Roundtable View from the regulators Project finance and climate change Market Development Breakouts on smart grid, Standard Offer, US-Canada trade, DG, etc. Banquet with keynote by Minister Smitherman

### Tuesday, November 18

8:00 a.m. Daybreak Coffee Hosted by Northland Power

8:25 a.m Opening Remarks by Conference Chair Stephen Somerville, Competitive Power Ventures Inc.

#### 8:45 am What history says about the future Keynote: Sean Conway, Queens University

◊ What are the politics of electricity likely to be like in the next 20 years? ♦ Are we on a pendulum with respect to Central



Planning?

#### 9:00 am Experts' Roundtable: How the future is likely to differ from the past

Judging by the experience of the last 5 years since the hybrid market was introduced, the last 10 years since Bill 35 was passed, and the last 20 years since APPrO held its first conference, panellists will explore what has changed and why that will make the future different from the past.

♦ What were the central decisions industry players had to make ten, twenty or even a hundred years ago, and what are the key differences from what are we looking at today?

◊ How have the drivers changed? What does that tell us about how to prepare the ground for new development?

♦ What innovations should the industry pay close attention to? ♦ What changes are needed to Ontario's market structure to enhance market performance?

Featuring:

Moderator: Linda Bertoldi, Borden Ladner Gervais, LLP Dave Butters, President of APPrO

Pierre Guimond, President and CEO of the Canadian **Electricity Association** 

Julie Girvan, Consumers Council of Canada Keith Stewart, World Wildlife Fund Julie Dill, President, Union Gas Limited

Day 2: Transmission readiness First Nations **OPA** Procurement Workforce development Nuclear regulation and development issues Breakouts on Standard Offer, power shaping, technology innovation, and more

Dan McGillivray, Managing Director, Ontario Centres of **Excellence for Energy** Location: Hall G

10:00 am Coffee Break Hosted by APPrO 2008 event sponsors, to be announced

#### 10:45 am The Regulator's role in shaping history

Where is energy regulation going? Observations based on Ontario's history and current circumstances George Vegh, McCarthy Tetrault

Keynote: Howard Wetston, Chair, Ontario Energy Board



Keynote: Colin Andersen, Chief Executive Officer, Ontario Power Authority



11:45 am Questions and discussion, focusing on "What needs to be in the next **IPSP?** 

Location: Hall G

#### 12 noon Lunch in the Networking Centre

Hosted by APPrO 2008 sponsors, to be announced.

#### Climate mechanisms that sustain the development 1:00 pm process

This session will focus on a narrow set of issues in the climate change field that are of particular concern to generators: ◊ What are the problematic issues in the Western Climate Initiative from an Ontario generator perspective, and how can they best be addressed before the system becomes embedded in continent-wide regulations?

♦ Alternative options for the OPA to use for the management of environmental attributes

## Program

Carbon pricing policy design for Canada: Impacts and Issues for the Electricity Sector

David McLaughlin, President & CEO, National Round Table on Environment and Economy (NRTEE)

Which aspects of WCI are particularly positive and particularly problematic from a Canadian perspective?

Lisa DeMarco, Macleod Dixon

◊ Ownership of environmental attributes

◊ Treatment of existing generation

Financing project development in the context of meeting carbon constraints as they are expected to operate in Canada Paul Bradley, Macquarie Capital Markets Canada Ltd.

 How regulatory options can be made more effective
 Contract design options for management of environmental attributes in future OPA contracts

#### Other speakers to be announced

Location: Hall G

Simultaneous programming in the Power Networking Centre:

#### 2:00 pm Update on Ontario's Clean Energy Standard Offer Program

◊ Context within the IPSP – How CESOP supports the overall power system procurement targets

◊ Key issues in program design – simplified deemed dispatch mechanism, by-product project parameters

◊ Customer response to date – overcoming challenges in end-use customer education

◊ Next steps toward promotion – communications support with industry partners

Jim MacDougall, Ontario Power Authority

#### 3:15 pm Progress Report on Ontario's Renewable Energy Standard Offer Program

 $\diamond$  Results to date – comparison of original RESOP and revised RESOP

 $\diamond$  Impact of recent changes on developer's behaviour and market response

♦ The revised and focused vision for RESOP

◊ Ongoing and evolving issues – Distribution system queue rules, municipal approvals, environmental approvals, LDC Connection Impact Assessments and IESO System Impact Assessments

◊ Next steps and progress of the 2 year program review Jim MacDougall, Ontario Power Authority 2:45 pm Questions and discussion Location: Hall G
3:00 pm Coffee Break
Hosted by Navigant Consulting

#### 3:45 pm Keynote address by Paul Murphy, CEO of the IESO

Co-ordination and cohesion: Is there a need to re-establish direction, focus or drivers in the power industry?

- ◊ What are the new drivers in the industry?
- ♦ What direction are they pushing us in?
- ♦ How should markets respond?

Moderator: Andrew Johnson, Energy Market Consultant Consumer perspective: Adam White, AMPCO, Association of Major Power Consumers in Ontario Generator perspective: Paul McMillan, EPCOR

Retailer perspective: Gary Wight, Constellation Energy (invited)

Location: Hall G

#### 5:00 pm Reception in the Networking Centre Hosted by Stikeman Elliott

#### 6:00 pm Banquet dinner

Hosted by Borden Ladner Gervais Location: Room 701 (One floor Up)

7:00 pm Keynote speech: Hon. George Smitherman, Ontario Minister of Energy and Infrastructure



**Tribute to Stephen Probyn** 

**Hedley Palmer Award** 

#### 8:30 pm **Power Mixer at the Steam Whistle Brewery** Hosted by Blakes *Location: Steam Whistle Brewery, 255 Bremner Blvd.*

visit http://conference.appro.org/conference2008 for program updates

Program

## Wednesday, November 19

8:00 a.m. Daybreak Coffee Hosted by AIM PowerGEN

9:00 am Geoff Ogram, Hydro One Networks

## 9:15 am Transmission system readiness: Long term stability and short term change

The OEB's Connection Cost Responsibility Review has put key issues on the table: Who should pay for grid reinforcement? What considerations should guide any decision about the initial proponent, owner and builder? How should the costs be collected? Even as these questions approach resolution, other key questions will follow:

◊ Is the incentive adequate to bring forward sufficient players to take lead responsibility?

 Is the OPA ready to identify transmission needs on the timeline and with the level of specificity that generators are seeking?
 What adjustments are needed in the system of approvals and permitting?

◊ Given the separation of powers in Ontario's system, what resources is the regulator likely to require, to resolve questions of the need for new lines, their sizing and timing, while respecting the market's expectations for predictability and contestability, to say nothing of reliability requirements?

#### Jeff Rosenthal, Brookfield Asset Management Getting the transmission system ready for the future Other speakers to be announced Location: Hall G

10:00 am Coffee break

Hosted by APPrO 2008 event sponsors, to be announced.

#### 10:30 am First Nations Power Generation Panel

Experts share their experience on building working relationships between First Nation and Metis communities and project developers. What makes for a successful partnership, whether the community is hosting development on its traditional lands, exploring new forms of collaboration, or an active proponent itself? How should developers approach entering into relationships with First Nation and Metis communities? Moderator: Merv McLeod, McLeod-Wood Associates Speakers to be announced Location: Room 803

12 noon Lunch in the Networking Centre Hosted by APPrO 2008 event sponsors, to be announced

## 1:00 pm Workforce Development: How to ensure the staff will be ready when needed

Is there a need for a joint initiative between industry, the educational sector, the parents, and government economic development functions? What are the appropriate and necessary strategies for addressing skills shortages?

Catherine Cottingham, Electricity Sector Council John Sprackett, Power Workers Union Location: Hall G

2:00 pm **Coffee break** Hosted by Brookfield Renewable Power

2:20 pm Current issues in the nuclear industry

#### Keynote address:

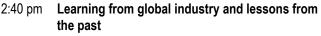
#### Michael Binder, President of the Canadian Nuclear Safety Commission

 $\diamond$  The evolving role of the regulator in Canada

◊ The efficiency and effectiveness of the licensing process in Canada

♦ International benchmarking

 Cooperating and collaborating with foreign regulators



The overheated project environment is a global phenomenon. Understanding how this current project market will affect projects in Ontario will be important for their success. Lessons from past and current projects will be valuable as Ontario begins to consider nuclear power projects again.

Michael McFadden, Independent Project Analysis Inc.

- 2:50 pm Lessons learned
- 3:15 pm Nuclear in Ontario: Operating today, Planning for tomorrow

Tom Mitchell, Chief Nuclear Officer, Ontario Power Generation

3:30 pm Wrap-up Location: Hall G

#### Simultaneous program:

1:00 pm **OPA procurement – What lies ahead?** Usually the OPA talks, and developers listen. This time, the OPA will update the industry on its ambitious set of procurement



## Program

#### Simultaneous programming in the Power Networking Centre: Ontario Centres of Excellence Innovation Café

### Tuesday, November 18

10 am Smart Grid - opportunities and perspectives Ravi Seethapathy, Hydro One Oliver Romaniuk, University of Waterloo Ken Kozlik, IESO, Independent Electricity System Operator Mark Kerbel, REGEN Energy Sarah Thorne, Decision Partners

11 am Solar Electricity Ian MacLellan, ARISE Technologies Corporation Rafael Kleiman, McMaster University Dave Gerwing, Menova Energy (invited)

1 pm Distributed Generation Case Studies Exhibitor Presentations

2:00 pm Clean Energy Standard Offer Briefing Jim MacDougall, OPA

3:15 pm Renewable Energy Standard Offer Briefing Jim MacDougall, OPA

(For more detail on this and the 2:00 session, see box in the main conference program, page 6.)

## 4:15 pm Cross-border market opportunities in renewable energy and conservation

### Wednesday, November 19

10 am Transportation – electricity convergence Matthew Stevens, CrossChasm Technologies Michael Angemeer, Veridian Bernard Fleet, Fleet Technology Partners Greg Rohrauer, University of Ontario Institute of Technology (invited) James Rowland, Ford Canada (invited)

11 am Electrical storage and power shaping Mark Douglas, Natural Resources Canada (invited) Jim Fonger, H2Green

2 pm Standard Offer – Open Discussion Jim MacDougall, Ontario Power Authority Jose Etcheverry, York University Tim Short, Enbridge Jose Menendez, Pristine Power

◊ Views on the objectives of the SO programs
 ◊ What difficulties have been experienced developing customer-driven SO projects?
 ◊ What technologies are likely to advance most quickly in the next 5 years?

programs, and then listen as the industry shares its concerns about the structure and process of Ontario's procurement program.

♦ Update on live procurements

Draft schedule and timing of future procurements.
 JoAnne Butler and Jason Chee-Aloy, Ontario Power

#### Authority

Audience participation will be encouraged. Location: Room 801

2:15 pm **Coffee break** Hosted by Brookfield Renewable Power

4:00 pm **APPrO Annual General Meeting** (Members only) *Location: Room 803* 

## Wanted Conference reporters

APPrO needs reporters to attend conference sessions and summarize them for the proceedings.

Contact Jake Brooks for details: 416 322 6549 ext 224 jake.brooks@appro.org

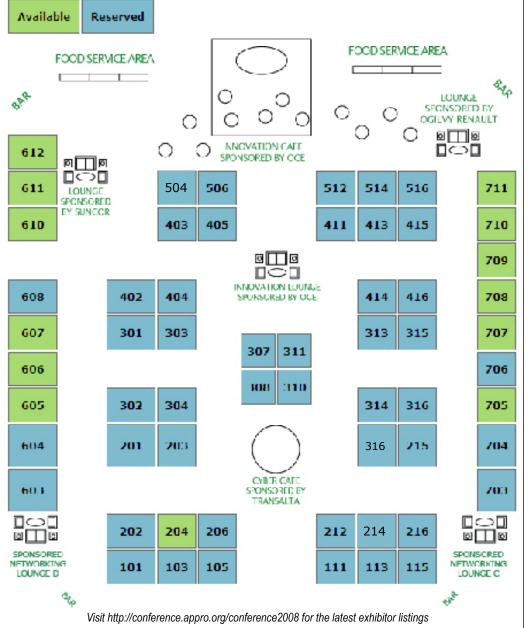
## **Power Networking Centre Floor Plan**

**Exhibit Hall F** 

## APPrO 2008 Exhibitor List (confirmed as of October 7)

- 101 Delta Instrument LLC
- 103 GE Energy
- 105 Wartsila North America, Inc.
- 111 Macleod Dixon
- 113 Rugged Com Inc.
- 115 Terrafix Geosynthetics
- 201 Borden Ladner Gervais

- 202 Hatch Energy
- 203 National Wireless
- 206 Weir Power & Industrial
- 212 Man Diesel North America
- 213 Donaldson Company Inc.
- 214 Bestobell/Aquatronix
- 215 Powertrain Inc.



301 Ventyx 302 Filter Innovations Inc. 303 Toromont CAT Power Systems 304 Stantec 307 Independent Electricity System Operator (IESO) 308 Kinectrics 310 Virelec Ltd. 311 K-Line Maintenance and Construction Limited 313 Emerson Process Management - Power & Water Solutions 314 Rodan Energy & Metering Solutions Inc. 315 Bruce Power 316 Garrettcom, Inc. 402 Navigant Consulting 403 Durpro 404 Helimax 405 LEHDER Environmental Services Limited 411 Henery & Sons 413 ZE Power Group 414 Innovative Steam Technologies 415 ZE Power Group 416 Golder Associates Ltd. 504 Victaulic **506 AMEC** 512 Henery & Sons 514 Gowlings 516 Blakes 603 CERISE 604 DDACE Power Systems 608 Ontario Power Generation Inc. 703 APPrO 704 APPrO 706 Lakeside Process Controls

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- FTSE4Good Global Index London-based sustainability index, fourth consecutive your
- Jantzi Social Index Index of top 60 socially screened.
   Canadian companies
- The Globe and Mail Newspaper Ranked #1 utility in Canada for corporate governance, soth consecutive year
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199 Bay Street, Suite 2800 Toronto, ON M5L 1A9 Blakes is one of Canada's leading business law firms with more than 500 lawyers in offices in Montréal, Ottawa, Toronto, Calgary, Vancouver, New York, Chicago, London and Beijing. Our integrated office network gives clients access to the full spectrum of capabilities found throughout the Firm. Whether an issue is local or multi-jurisdictional, practice-area specific or cross-disciplinary, Blakes can provide solutions at every level.

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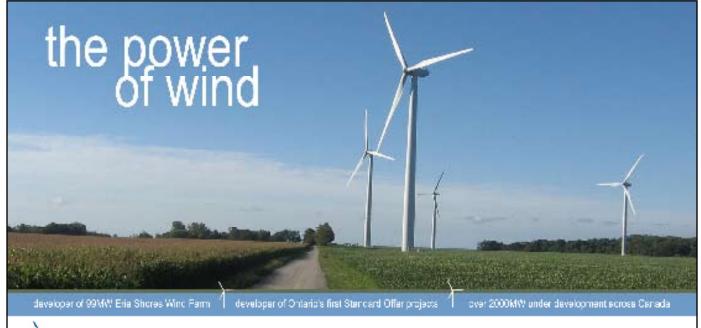
#### Borden Ladner Gervais LLP

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Borden Ladner Gervais LLP is a full service national law firm with an expertise in energy law. Our Electricity Markets Group acts for developers, generators, private equity investors, municipalities, distribution utilities, district energy companies, contractors, consultants, retailers, major consumers and financiers. We provide advice on all aspects of the electricity sector including project structure, development, construction, environmental, regulatory, tax, financing matters and power purchase agreements, thermal energy agreements and emissions trading.

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Tiverton, ON N0G 2T0 Bruce Power is Canada's first private nuclear generating company and the operator of one of North America's largest energy facilities.

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Cameco Corp., TransCanada Corp., BPC Generation Infrastructure Trust as well as the Power Workers' Union and The Society of Energy Professionals, the two main trade unions on site.

Richard Horrobin, Vice President, Power Marketing 519 361 6561

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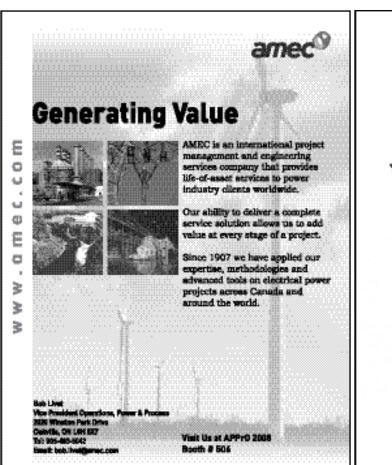
Energy Management delivers practical advice on energy management strategies and technologies to over 17,000 building owners, managers, facilities managers and engineers.

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Blakes is pleased to host the 2008 Power Mixer. Join us for a night cap and connect with your industry peers.

Tuesday, November 18, 2008 | 8:30 P.M. - 11:30 P.M. Steam Whistle Brewery, 255 Bremner Blvd.

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David McFadden, Q.C. Senior Partner, Chair National Energy and Infrastructure Industry 416 369 7243, Fax 416 369 7250 david.mcfadden@gowlings.com www.gowlings.com

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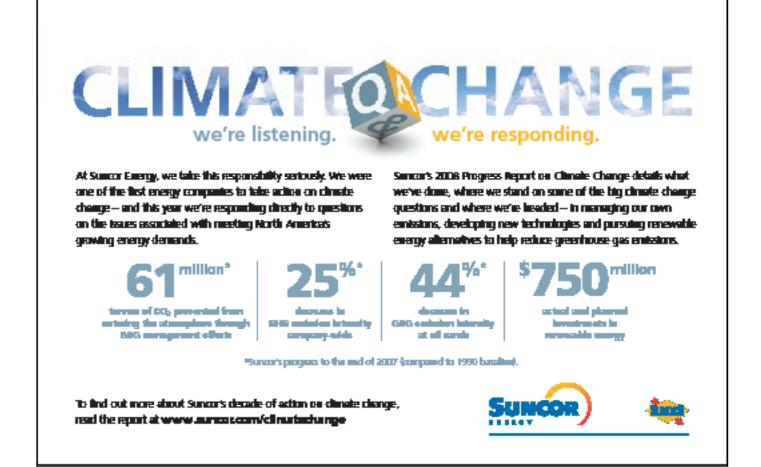
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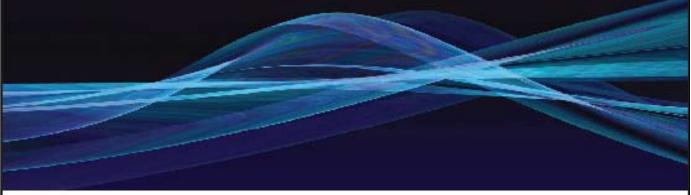
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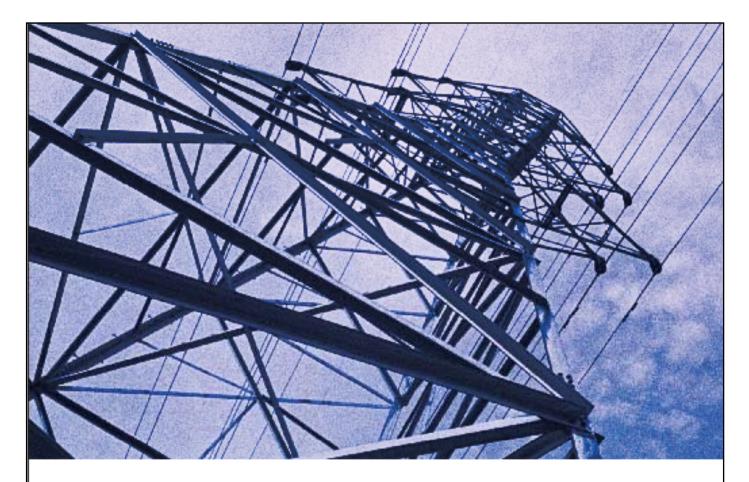
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