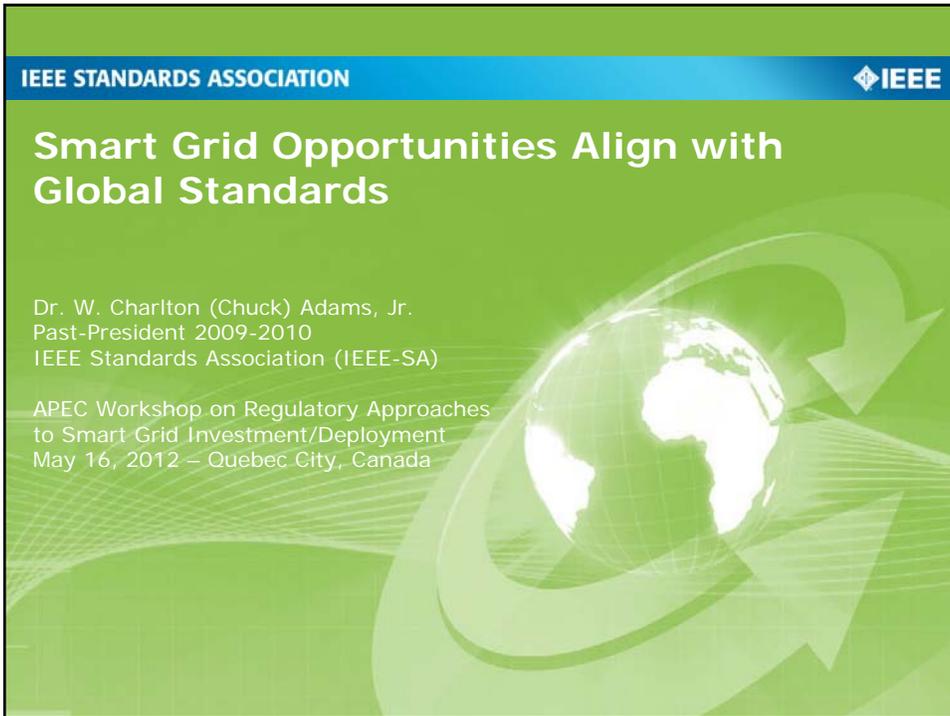


Smart Grid Opportunities Align with Global Standards

Dr. W. Charlton (Chuck) Adams, Jr.
Past-President 2009-2010
IEEE Standards Association (IEEE-SA)

APEC Workshop on Regulatory Approaches
to Smart Grid Investment/Deployment
May 16, 2012 – Quebec City, Canada



Smart Grid: A New Business Frontier One of the largest opportunities of this century

About \$13 trillion will be spent on modernizing power grids worldwide by 2030, of which “hundreds of billions” will flow to smart grid projects

- Source: *Smart Grid Today*



Smart Grid: The Next Revolution

IEEE 802.11™



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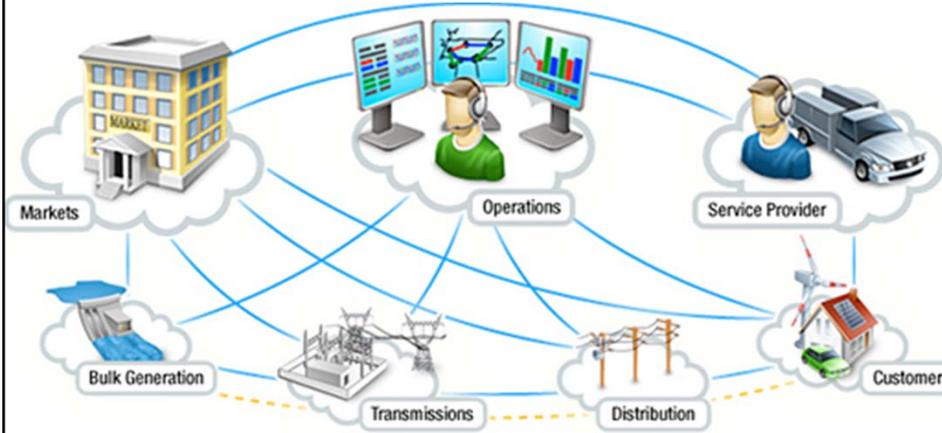
Smart Grid Potential



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Complex Smart Grid Market



Source: U.S. National Institute of Standards and Technology (NIST)

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5

APEC Community at Forefront

- APEC members maintain own smart grid vision and cutting-edge strategies
- APEC economies actively participating in standards initiatives
- IEEE partnering with industry, governments and businesses in APEC economies to help global standardization of locally developed technologies



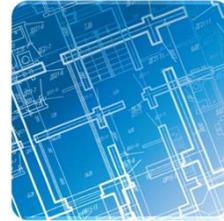
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6

IEEE Standards Association (IEEE-SA)

- Globally recognized standards
- Over 1,000 active standards
- More than 500 standards under development
- 7,000 individual members
- 200 corporate members
- Over 20,000 standards developers worldwide



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7

International Smart Grid Accomplishments



Ministry of Knowledge Economy
Korean Agency for Technology and Standards



国家电网公司
STATE GRID
CORPORATION OF CHINA



The Korean Society of
Automotive Engineers

Asia

Europe

Middle East

Africa



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8

Collaboration Helps Build Economic Opportunities

To succeed, regions and local economies must collaborate on standardized approaches for commercializing smart grid as programs will reach into every household and business within an economic community



Standards Grow Markets

- Smart grid business opportunity is substantial and business model is expansive
- Challenge of integrating technologies and industries into smart grid is complex
- Commitment to collaborate on standards and business development is critical
- Cooperative efforts will enable creation of globally relevant smart grid standards and technologies



Thank You!



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11