



# International Activities



Ray McGowan-NFRC staff



# NFRC-International

- NFRC Vision statement:
  - NFRC is the recognized global leader in delivering energy and related performance ratings and certification for fenestration products and systems
- NFRC's International Program continues to expand global presence



# International

- US DOE increased 2008 International funding by \$150,000
  - Focus on International Harmonization within Asia Pacific Partner (APP) countries (USA, Australia, Canada, Japan, South Korea, China and India). Emphasis on China and India
  - Smaller project in Jordan



# US Trade Development Agency

- Provide about \$14,000 to support American Standard harmonization effort in China
- NFRC's harmonization work in China last April was supported National Electrical manufacturers Association (NEMA) which administers USTDA program



# New State Department Grant

- In August NFRC received a \$250,000 grant (through 2010) from the U.S State Department to implement clean energy work in China under the Asia-Pacific Partnership's (APP) Clean Development and Climate program.
- One of nine grant recipients chosen out of 90 submittals
- Kudos to WinBuild (Bipin Shah) for his efforts in establishing this new NFRC grant



# International

- NFRC now has dedicated International Program
- Budgeted separate from Research
- Financial support from
  - NFRC
  - Department of Energy
  - Department of State
  - US Trade Development Agency (via National Electrical Manufacturer's Association contract)



# China

- US Department of State awarded NFRC and partners \$250,000 through 2010 for harmonization work in China
- Partners (Chinese and USA) will match \$250,000





# DOS Award Organization

- Lead Organizations:
  - China:
    - Research Institute of Standards & Norms (RISN)
    - Ministry of Housing Urban-Rural Development (MOHURD);
    - China Building Material Academy (CBMA),
    - China Academy of Building Research (CABR)
  - USA:
    - National Fenestration Rating Council (NFRC),
    - WinBuild, Inc.,
    - Association of Industrial Metallizers, Coaters and Laminators (AIMCAL),
    - International Window Film Association (IWFA)
- Other Supporting Organizations:
  - US-Department of Energy,
  - North American Insulation Manufacturers Association



# USAID RFA Response by NFRC

- NFRC bid on US Agency for International Development (USAID) RFA
  - Project name: US-China Clean Energy Partnership
  - NFRC bid similar to DOS RFA, but larger (\$1.5 million)
  - Did not receive award, but.....
  - State Department in direct talks with WinBuild about other SE Asian nation harmonization efforts as a result

# India

- Simulation Laboratory developed to do THERM and WINDOW simulation per Indian Energy Code Requirements
- Building Component Thermal Testing Laboratory Project finalized





# Other Countries



- Kuwait
  - WinBuild met with government officials 9/22/2008
  - Thermal Testing Laboratory project nearly finalized
- Jordan
  - US DOE granted additional funding to Assist on NFRC rating harmonization
  - Workshop of Key stake holders in October 08
  - THERM and Window Training
  - Jordan Government and USAID to support future activities- currently negotiated by WinBuild
- Europe
  - Staff will present NFRC ratings at Glass for Europe meeting 11/6/8
  - Europe considering harmonized label

# Other Countries

- ASEAN countries
  - Initial talks for establishment of Common Window Rating
- Japan
  - Staff hosted four Japanese visitors interested in harmonizing with NFRC
  - Toured NFRC accredited test facility
  - Japanese authorities discussing harmonization potential



# International License Activity

- South Africa
- Australia



# Australian Fenestration Rating Council

- New website now active and content being built [www.afrc.org.au](http://www.afrc.org.au)
- Benefits of cooperation
  - louver simulation methodology being validated through hot box testing at ATI-PA
  - Jointly funded by Breezway and the AWA (WERS)
- The AWA and AGGA committed staff members for AFRC advancement
- Australian products database under discussion with house rating program developers

# South Africa

- Training for THERM and WINDOW conducted
- NFRC 102 Thermal Chamber being commissioned for testing NOW!
- Spectral data measurements provided for 06 NFRC ILC
  - Awaiting LBNL approval





# International Standards Organization

- ISO TC163/ SC2/WG11 - Energy Rating of Fenestration Systems standard
  - ISO/CD 18292 Balloted, comments due Dec 08
  - Staff circulated to several NFRC members for comment
  - Contact me if you would like to comment
- Next ISO/DIS 18292 Meetings
  - TNO in Delft on March 16-17 (WG11) and March 18 (WG14), 2009



# Events of Interest

- Fenestration Day China November 18-21, 2008, Beijing China
- Window and Door Trade show + Glass Tech show: December 5-7, 2008 New Delhi, India
  - US pavilion at the show
  - Special discount for USA manufacturers for both shows
- Middle Eastern Regional Trade Show on Building Energy Efficiency –tentatively  
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# Conferences of Interest

- Building Envelop EE Technology Conference
  - December 8, 2008 New Delhi, India
- Mayors conference on Safety and Energy Efficiency
  - Tentative February 2009, Beijing China
- Global Conference for Energy and Renewable efficiency for Desert Climate – May 2<sup>nd</sup>, Amman Jordan



# International-Questions

