

2011 INTERNATIONAL ACTIVITIES



Ray McGowan (Staff)

Bipin Shah (WinBuild, Inc.)

Rating Council

INTERNATIONAL PROGRAM

- NFRC international program seeks worldwide fenestration harmonization with NFRC rating system
- Goals
 - Contribute to a global transformation of the fenestration market
 - Promote energy efficient fenestration products
 - Reduced energy and carbon use globally
- Reduce fenestration manufacturer trade barriers

INTERNATIONAL PROGRAM

- Benefits
 - Increased NFRC membership
 - Increased IGDB participation
 - Harmonization
 - Increased NFRC name recognition Globally

NFRC
National Fenestration
Rating Council

ENERGY SAVING WINDOW CONTRACT WITH APEC

- NFRC completed the report in June'11
- Investigated APEC economies energy saving window potential
 - Gathered all program, policies, window testing and rating documents
 - Concluded limited window ratings in place
 - Great opportunity for future development with NFRC
- Delivered final report in June
- Posted on APEC web site: www.publications.apec.org
 - Publication number: APEC#211-RE-01.9

AUSTRALIA

- NFRC licensee since 2007
 - Australian Fenestration Rating Council-administered by Australian Window Association
 - Rated 90,000 products using NFRC software
 - NFRC referenced in Australian Building Energy Code
-
-

SOUTH AFRICA



- NFRC licensee since 2008
 - AAAMSA is licensee
- THERM , WINDOW, CMAST and spectral data measurement training completed in 2011
 - Two persons trained on WINDOW/THERM
- Thermal Test Chamber re-accredited in 2011



SOUTH AFRICA

- AAAMSA will administer a new group:
 - South African Regional Energy Efficiency Centre (SAREEC)
 - Establish building envelope component testing and provide energy performance testing, research and development for South Africa and other African countries
 - NFRC ratings will be integral in these efforts
 - SAREEC will be formed by:
 - South African National Energy Research Institute (SANERI)
 - National Energy Efficiency Agency (NEEA)
 - Council for Scientific and Industrial Research (CSIR)
 - Fenestration Industry
-
-

INDIA

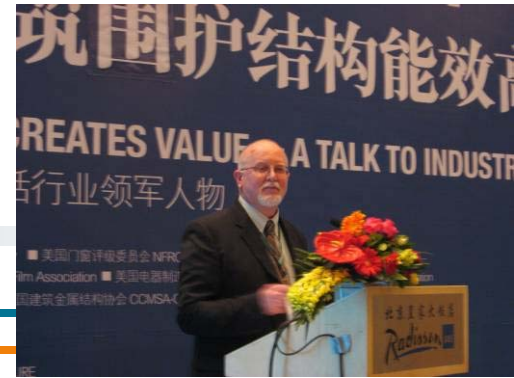


- NFRC partner country in 2012
 - Glazing Society of India (GSI) Board committed
- Center for Environmental Planning and Technology (CEPT)
 - Indian government recognized regional building envelope energy efficiency center
 - Optical/thermophysical property and air Leakage testing capability
 - NFRC/ASTM standards being used
 - State of the art solar calorimeter under construction to be commissioned by January 2012
 - Approved for spectral data collection for IGDB submissions
- THERM, WINDOW and CMAST training completed in 2011

CANADA

- Model National Energy Code of Canada for Houses/Buildings (MNECH/B)
 - New drafts in 2011/2
 - May be referenced by provinces in the future
 - British Columbia requires ASHRAE 90.1-04
 - Vancouver requires ASHRAE 90.1-07
 - NFRC 100/200 required
 - NFRC ratings required
-
-

CHINA



- Rated, labeled, and certified about 431 products fenestration products from 116 manufacturers
 - Use THERM/WINDOW simulations with different environmental conditions
 - JGJ/T 151-2008-Thermal Transmittance Procedure
 - Validate with GBT 8484-Graduation and Test Method for Thermal Insulating Properties of Doors and Windows
 - Ministry of Housing Urban-Rural Development (MOHURD) operates system
 - NFRC pursuing rating harmonization with MOHURD
 - China Testing Center (CTC) approved for IGBD data collection and IGCC approved IGU testing center.

JAPAN



Display category	Classification symbol
U-Value of Window: 2.33 or lower	★★★★
U-Value of Window: Higher than 2.33, 3.49 or lower	★★★
U-Value of Window: Higher than 3.49, 4.65 or lower	★★
U-Value of Window: Higher than 4.65	★

- Implemented a 4 Grade Star system in 2011
 - U-factor only
- WinBuild Submitted an Analysis report to Ministry of Economic Trade and Industry (METI) and requested to reconsider the qualification of products using NFRC ratings
 - US- Trade is working with METI to have a round table conference with experts to discuss the issue. Tentatively to be scheduled in early December'11.

THAILAND

- Regional Energy Efficiency Center being developed. Proposal is submitted to The Department of Alternative Energy Development and Efficiency (DEDE) and APEC.
- Will include window rating equipment
- NFRC participants partially sponsoring
- Potential for NFRC rating harmonization

OTHER COUNTRIES



- Kuwait

- Team of Experts visited National Labs (LBNL, NREL and ORNL) in June
- Project to Construct Energy Center at Kuwait Institute of Scientific Research (KISR)
- Plans to build a component thermal testing laboratory using NFRC ratings standards

National Fenestration
Rating Council

OTHER COUNTRIES

- South Korea
 - Government has plans to implement window labeling program in 2012. NFRC considered for testing standards. Experts looking at different simulation programs for use of rating fenestration products
- Nigeria
 - Several Government and experts from Nigeria visited NFRC, participating window manufacturer, NFRC test, simulation, IA labs in September.
 - Potential NFRC membership

INTERNATIONAL PROGRAM FUTURE

- US DOE reducing support for international efforts
 - NFRC will continue to support licensees
 - NFRC will continue to seek harmonization opportunities on a limited basis
 - NFRC participant support will be necessary
-
-



QUESTIONS

National Fenestration
Rating Council
