



**Asia-Pacific
Economic Cooperation**

2011/SOM1/EWG/EGEEC/030

Agenda: D2 8

EWG 13-2009A - Energy Saving Window Survey

Submitted by: United States



**37th Expert Group on Energy Efficiency and
Conservation Meeting
Washington, D.C., United States
28 February - 2 March 2011**

EWG13/2009A- ENERGY SAVING WINDOW SURVEY

National Fenestration Rating
Council

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PRELIMINARY FINDINGS

- Surveyed APEC Nation Energy Saving Window Activities
 - Mature Policies: building energy code and references to window energy ratings
 - Developed Policies
 - building energy code and wall energy performance requirement-no specific window requirement
 - building energy code requires prescriptive energy performance, but not specific window rating method
 - Initiating policies: Initiating or no building energy code or window energy rating activity

APEC NATIONS



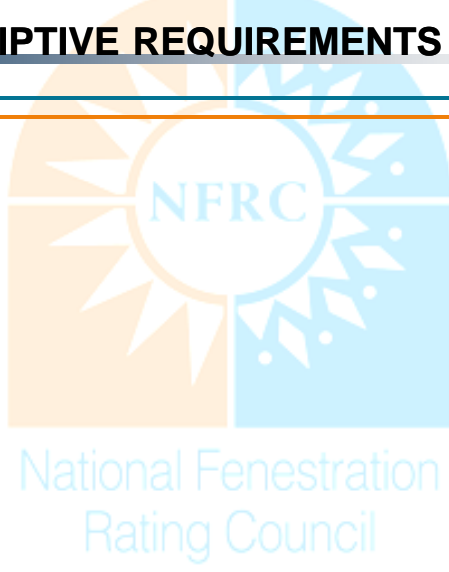
NATIONS WITH BUILDING ENERGY CODE AND WINDOW ENERGY RATINGS

- United States
- Canada
- Australia
- New Zealand
- Papua New Guinea

National Fenestration
Rating Council

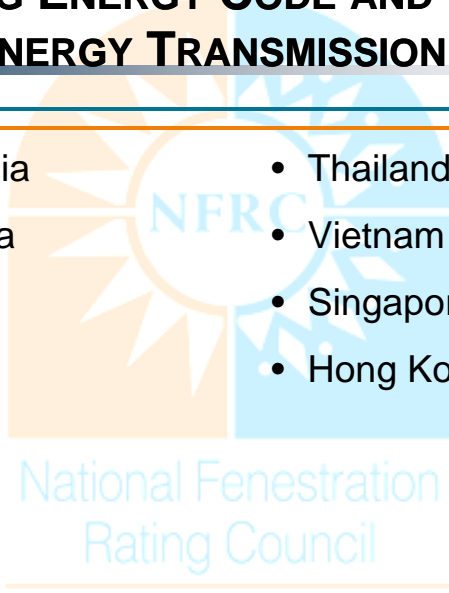
ENERGY CODE AND WINDOW ENERGY PRESCRIPTIVE REQUIREMENTS

- Chile
- China
- Korea
- Russia



BUILDING ENERGY CODE AND OVERALL WALL ENERGY TRANSMISSION REQ.

- Indonesia
- Malaysia
- Mexico
- Taiwan
- Japan
- Thailand
- Vietnam
- Singapore
- Hong Kong



NEW WINDOW ENERGY RATING PROGRAM

- Japan
 - New mandatory requirements in April pending

The logo for the National Fenestration Rating Council (NFRC) is centered in the background. It features a stylized sun with rays in orange and blue, with the letters 'NFRC' in blue. Below the logo, the text 'National Fenestration Rating Council' is written in a light blue font.

National Fenestration
Rating Council

DEVELOPING BUILDING ENERGY CODE OR WINDOW RATING ACTIVITY

- Brunei Darussalam
- Peru
- Philippines

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National Fenestration
Rating Council

PRELIMINARY RECOMMENDATIONS

- Mature policies
 - Enforce energy codes, promote voluntary efforts
 - Develop required infrastructure and research capability to rate newer products
- Developing policies
 - Consider existing window energy rating systems for adoption
 - Build required infrastructure to implement ratings, i.e. testing facilities, human resources, etc
 - Improve building energy codes with specifics on window requirements
 - Consider developing incentive/voluntary energy saving window programs
- Underdeveloped policies
 - Consider introducing voluntary program first
 - Build required infrastructure to implement ratings, i.e. testing facilities, human resources, etc
 - Adopt existing building energy codes with international and regional harmonization as a goal
 - Develop building energy codes and window energy ratings simultaneously

FINAL STEPS ON PROJECT

- Draft final report
 - Compare energy saving window policies, programs, ratings/testing methods
 - Make recommendations for energy saving window ratings development
 - Make recommendations to overcome market barriers for energy savings windows
- Deliver final report with reviewer comments