NEMA Experience with Other International Standards Organizations

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Examples of NEMA Members’ Products

- Lighting products
- Electric motors
- LV Surge Protection
- CT scanners
- Nurse call stations
- Dry cell batteries
- Fuses
- Industrial controls
- Switchgear

- Transformers
- Smoke detectors
- HV Insulators
- Building wire
- Capacitors
- Ultrasound imaging
- Traffic controls
- Welding equipment
- Circuit breakers
International Standards

Engagement that leads to lowering trade barriers and growing markets

- 58 IEC and 3 ISO Technical Advisory Groups (TAGs) (mirror committees)
- 5 International Secretariats
- 500+ participants (members and staff) on committees of other organizations
Other International Standards Organizations


✔ Data Communication Standards:
  - Entity-based: 802. series
  - Individual-based: 2030.5 series
  - All are international; more than 300 people from 10+ countries
  - Very open to twinning
  - Contact: Bob Heile, [bob.heile@ieee.org](mailto:bob.heile@ieee.org)
Other International Standards Organizations

✔ Open ADR Alliance  http://www.openadr.org

✔ Demand Response Standards:

- International participation, mainly from countries that manufacture communication equipment.
- Very open to twinning, via memoranda of understanding.
- Contact: Rolf Bienert rolf@openadr.org
Aiming for the Development of Performance Standards
Aiming for the Development of Performance Standards

 NEMA develops more than 400 standards; all are performance standards.
 Three examples:
  - Motor standard MG-1 (1926)
  - Cable Tray standard VE-1
  - LED Lighting standard SS1 (2012)
Aiming for the Development of Performance Standards

✔ Why are they needed?
  ▪ Parts fit, support proper weight of other products, components meet expectations.

✔ Who benefits?
  ▪ Consumers: property owners, industrial operations, construction operations, etc.

✔ How often are they updated?
  ▪ As needed: > or = to 5 years, sometimes 1 year.
Motor Efficiency Regulations

- Effective October 1997
- General Purpose 1 – 200 HP at MG 1, table 12-11 Energy Efficient

Energy Policy Act of 2005
- Raised purchases for government to table 12-12 Premium Efficient [by executive order from president]

- Effective December 2010
- General Purpose 1-200 HP EPAct motors to table 12-12 Premium Efficient
- Other 1-200 HP motors at table 12-11 Energy Efficient
- 201 – 500 HP motors at 12-11 Energy Efficient
Industrial Electric Motors: Opportunity for significant energy savings
Progression of Active Material Required to Increase Efficiency

Lowest level

Epact 92
IE2

NEMA Premium
IE 3
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