



Sixth Power Plan Measures

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The Regional Technical Forum's Review Process and 6th Plan Efficiency Measures

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Northwest Power and Conservation Council

What You're About to Hear

- What's The RTF's Role?
- How Do We Make Decisions?
- What Measures Might Be “In my future?”

RTF - Origin

- *1996 Congress Charged Council and Bonneville with Formation of a Regional Technical Forum (RTF)*
 - *“to develop consistent standards and protocols for verification and evaluation of energy savings, in consultation with all interested parties.*
- *1998 Northwest Governor’s Comprehensive Review Expanded RTF’s Mission*
 - *Track regional progress toward conservation and renewable resource goals.*
 - *Provide feedback and suggestions for improving conservation and renewable resource development programs in the region.*
 - *Conduct periodic reviews of the region’s progress.*
 - *Communicate recommendations to appropriate decision-makers*
- *1999 - Council Formed Regional Technical Forum*

RTF's Regional Role

- *Provides standardize protocols for* estimating savings and regional power system value for measures/programs
- *Maintains a comprehensive data base of cost-effective conservation measures and programs* that contains estimated:
 - Incremental cost
 - Savings (kWh & KW)
 - Benefit/Cost Ratios
 - » Wholesale and retail utility perspectives
 - » Total Resource Cost perspective
 - Carbon reduction (lbs over life of savings)
- *Performs ongoing updates* of data base as technology and standard practices change

RTF's Regional Role (2)

- *Maintains “petition process” which permits utilities or vendors to*
 - Propose new measures or savings verification protocols
 - Request modification of existing verification protocols
 - Request modification of the savings and cost assumed for existing measures
- *Develops and Maintains Program Technical Specifications and Quality control criteria*
- *Provides regional cost-effectiveness methodology and software*
 - Output includes UTC and TRC B/C ratios
 - CO2 emissions (forecast)

RTF's Regional Role (3)

- *Internet-based System for Planning Tracking and Reporting regional conservation progress including both savings and expenditures*
 - RTF maintains technical data base
 - Now used for many Bonneville “back-office” functions, e.g., custom project review and approval, invoicing, etc.
 - Will be used by Washington utilities covered by new state law (I-937) requiring public and private utilities w/more than 25,000 customers to annually report conservation savings to state auditor

What the RTF Does Not Do

- Perform any regulatory function
- Require use of specific measurement and verification protocols or “deemed savings”
- Establish utility program reporting requirements and/or schedules
- Restrict which measures utilities can install
- Require the use of specific program designs
 - except for technical and quality control requirements for deemed measures (e.g., PTCS)
- Establish “rebate or willingness to pay” levels

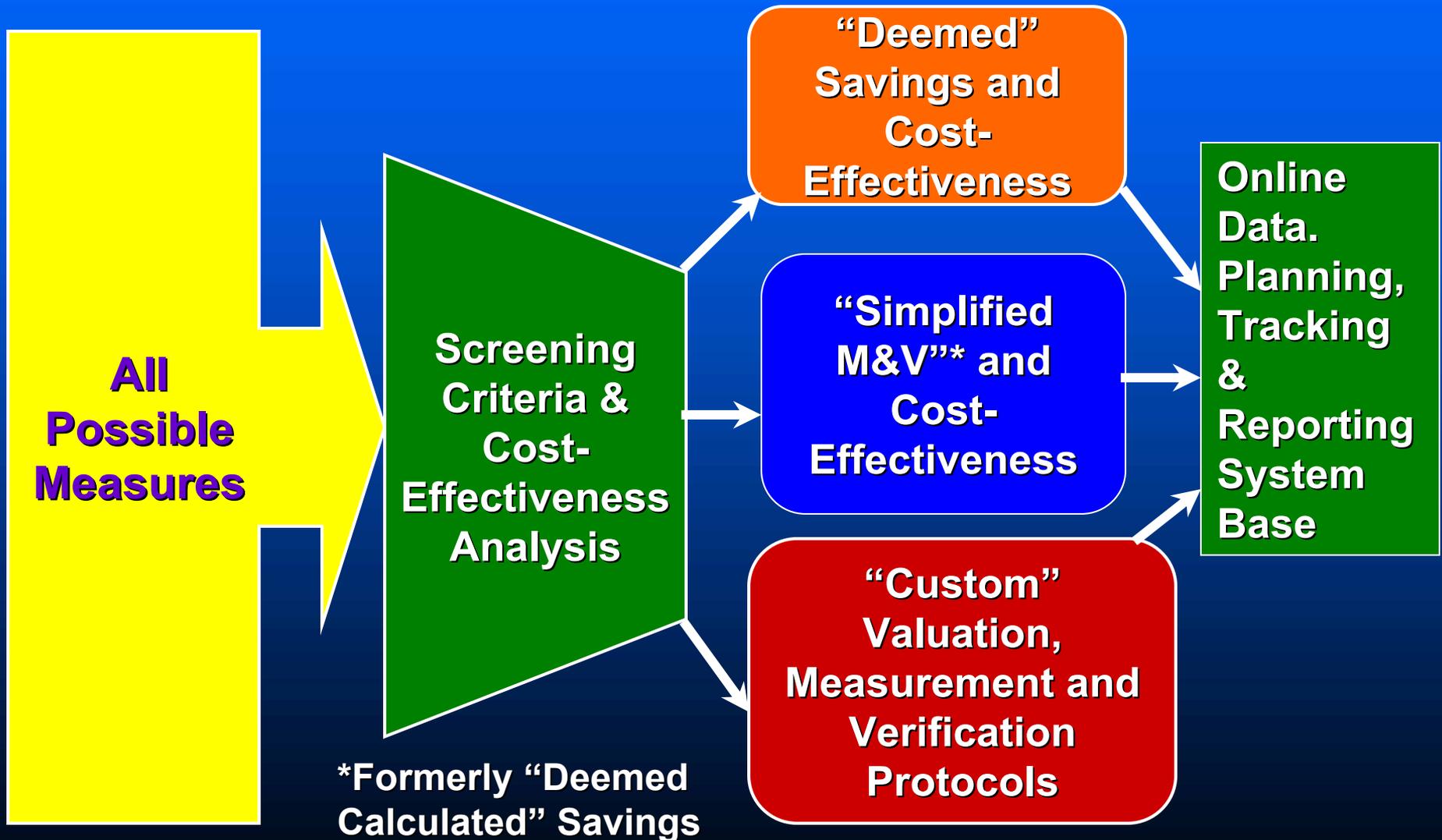
Summary - The RTF

- Is a Scientific and Statistical Advisory Committee to the Council
- Technically, the RTF reports to the Chair of the Council
- Pragmatically the RTF reports to the region's utilities, SBCs, regulators and others
- The RTF makes its recommendations to Bonneville and the region
- RTF meetings, recommendations, databases, and proceedings are public
- Many people around the region, and elsewhere, rely on RTF recommendations
- The RTF is a volunteer organization
- It is staffed by the Council with contractor assistance

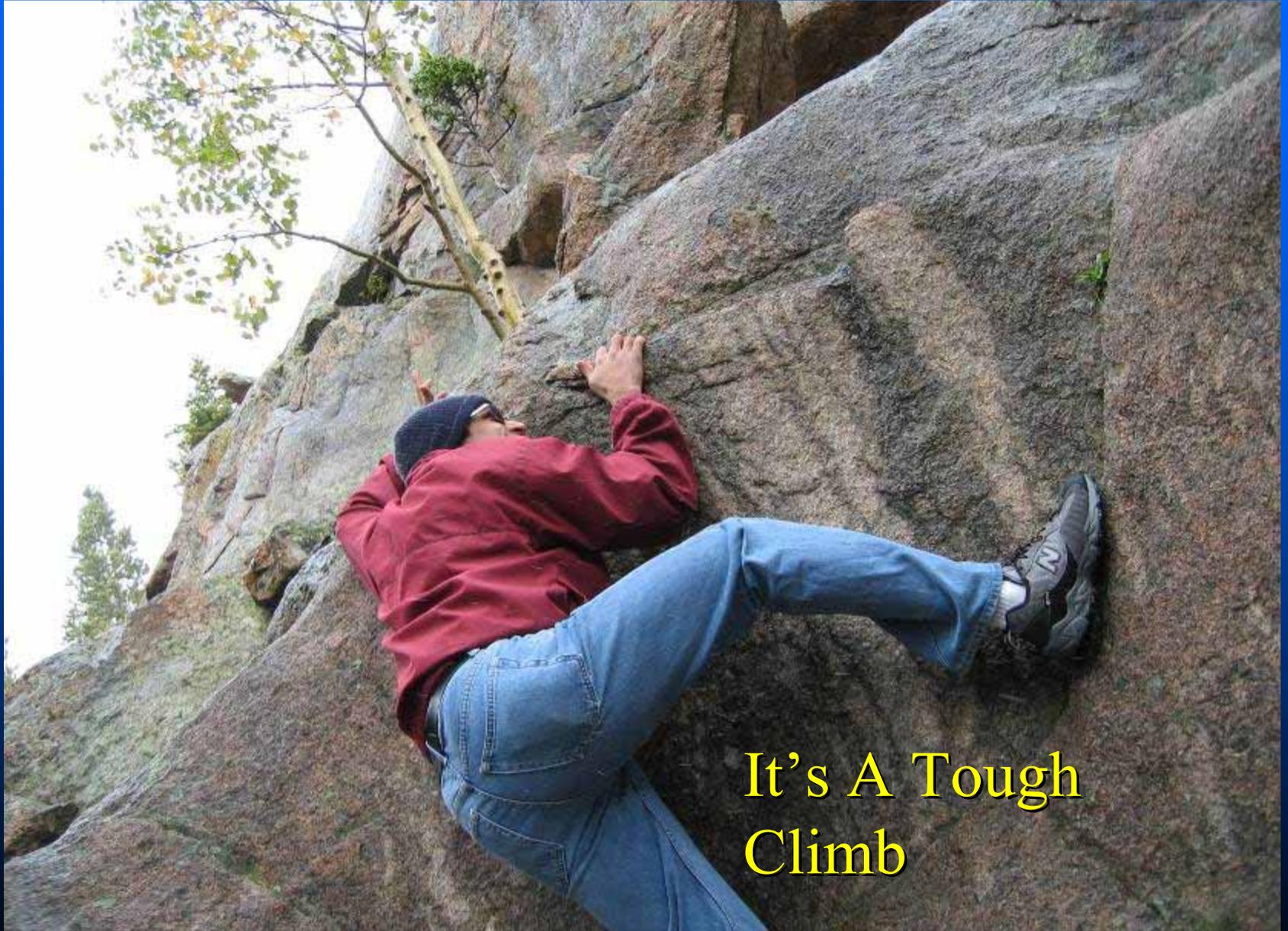
How Does the RTF Process Work?

- RTF Provides Centralized Technical Review
 - Energy Savings Data and Assumptions
 - Cost-Effectiveness Methodology and Assumptions
 - Measurement and Verification Protocols/Guidelines
- Builds on historical program experience
- Public process – stakeholder “technical” involvement

Measure Screening Process

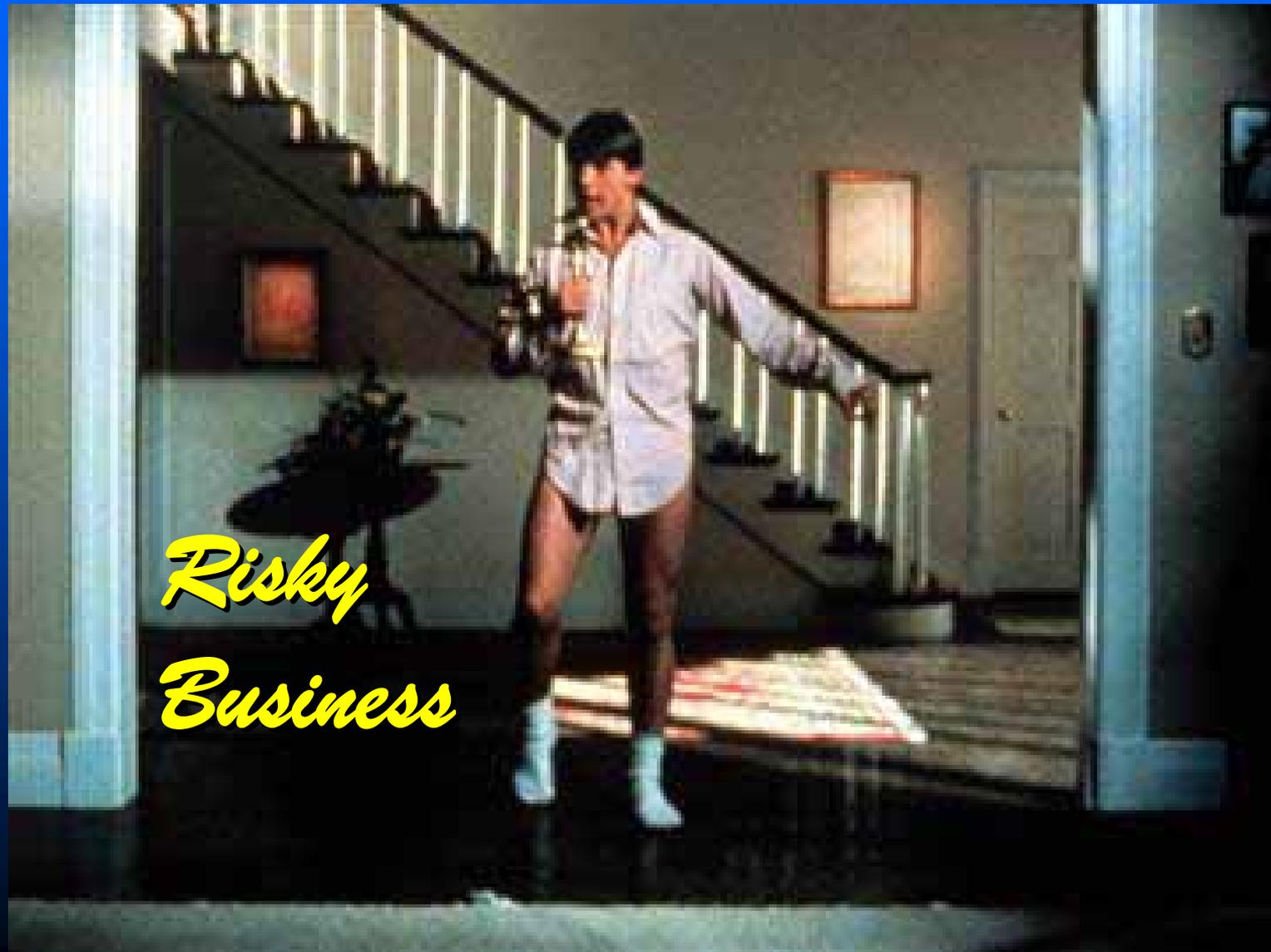


Deemed Measures



It's A Tough
Climb

Provisional Measures



Simplified M&V Measures



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The RTF is working with BPA to expand the number "Simplified M&V" measures

Custom M&V Measures/Projects/Programs



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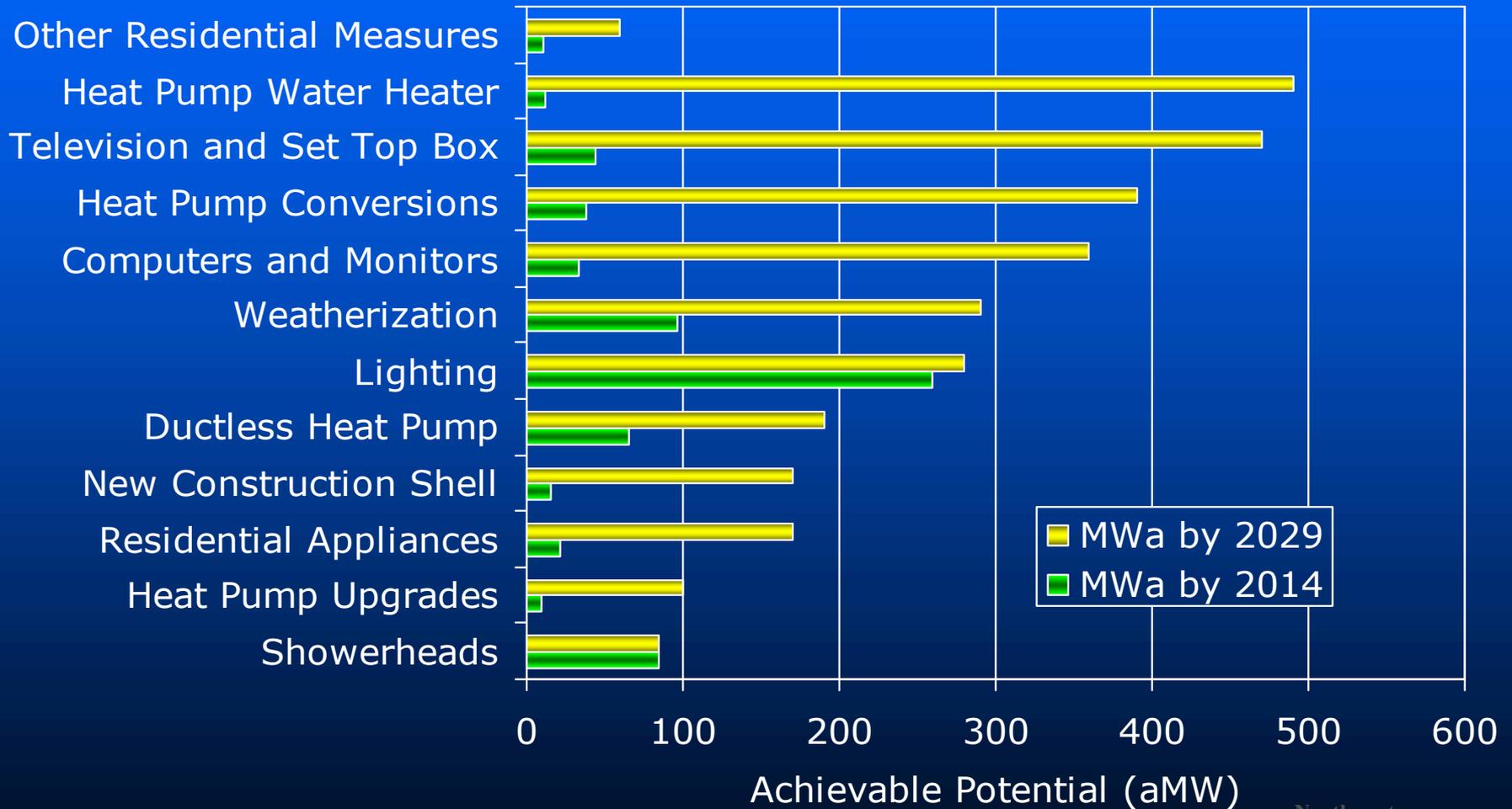
*We're
already
overflowing
with them*

valuation protocols

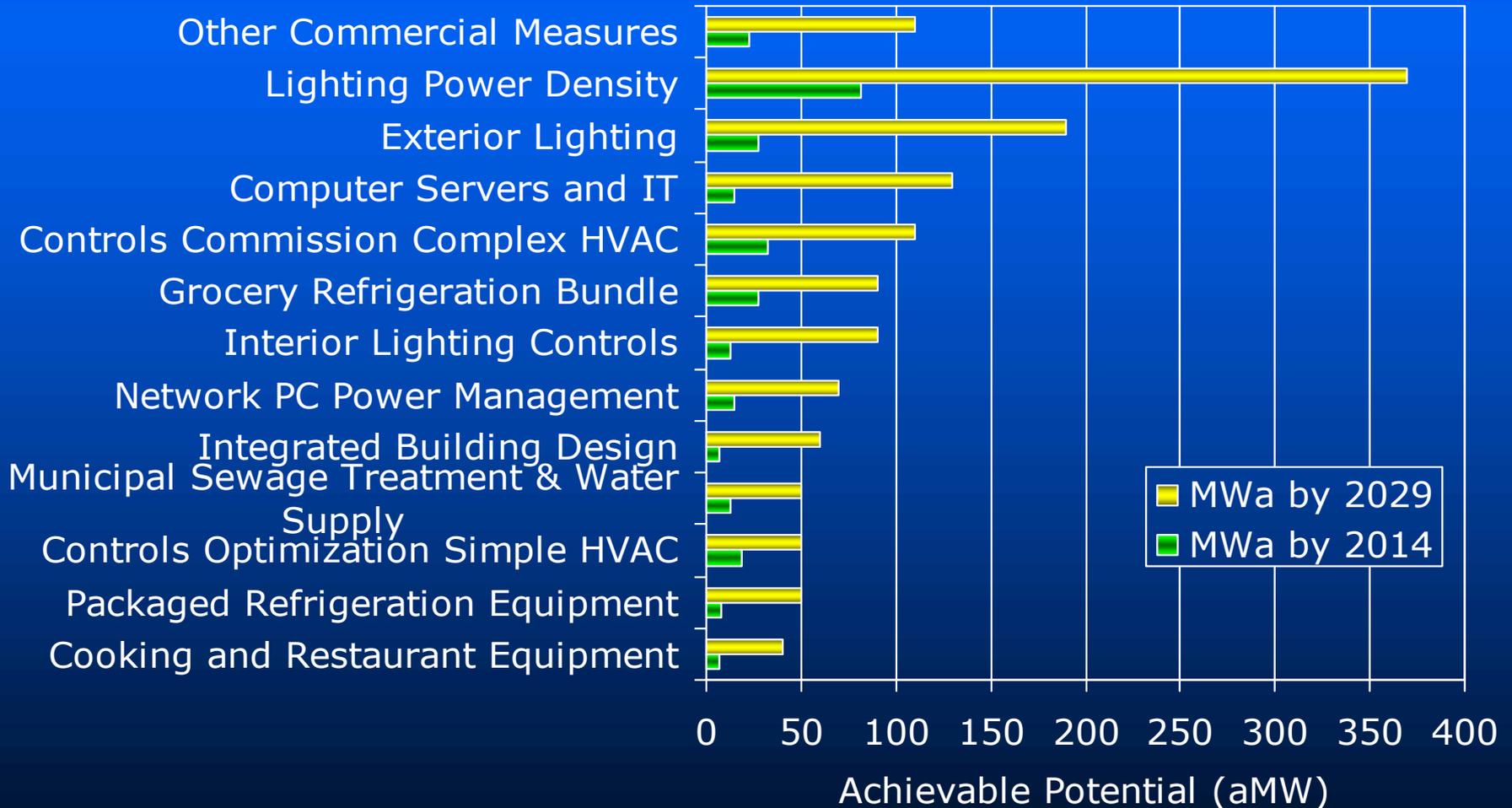
In Honor of St. Patty's Day – Here's Where the Rainbow Ends



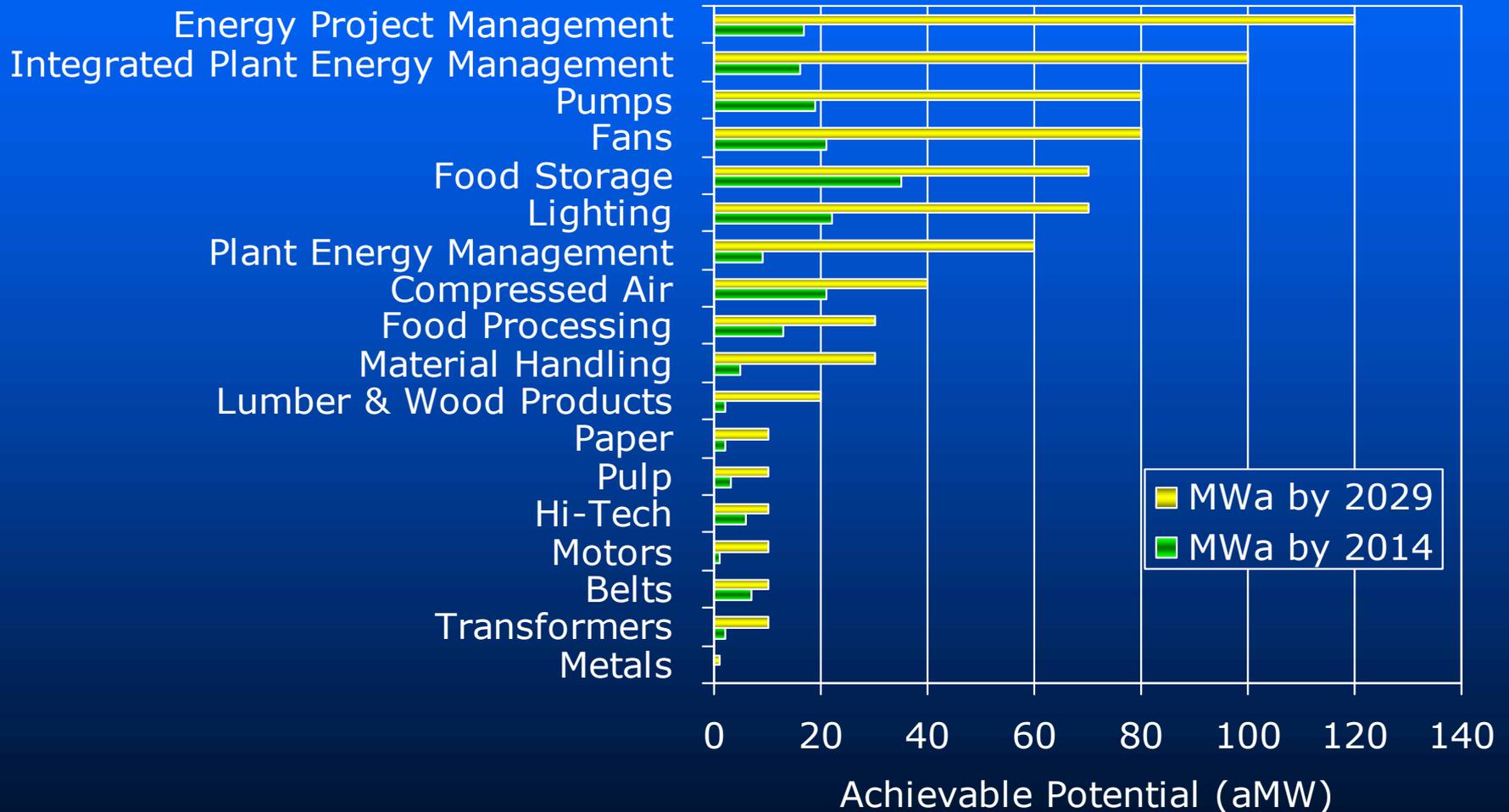
Residential Sector – The “Big Measures”



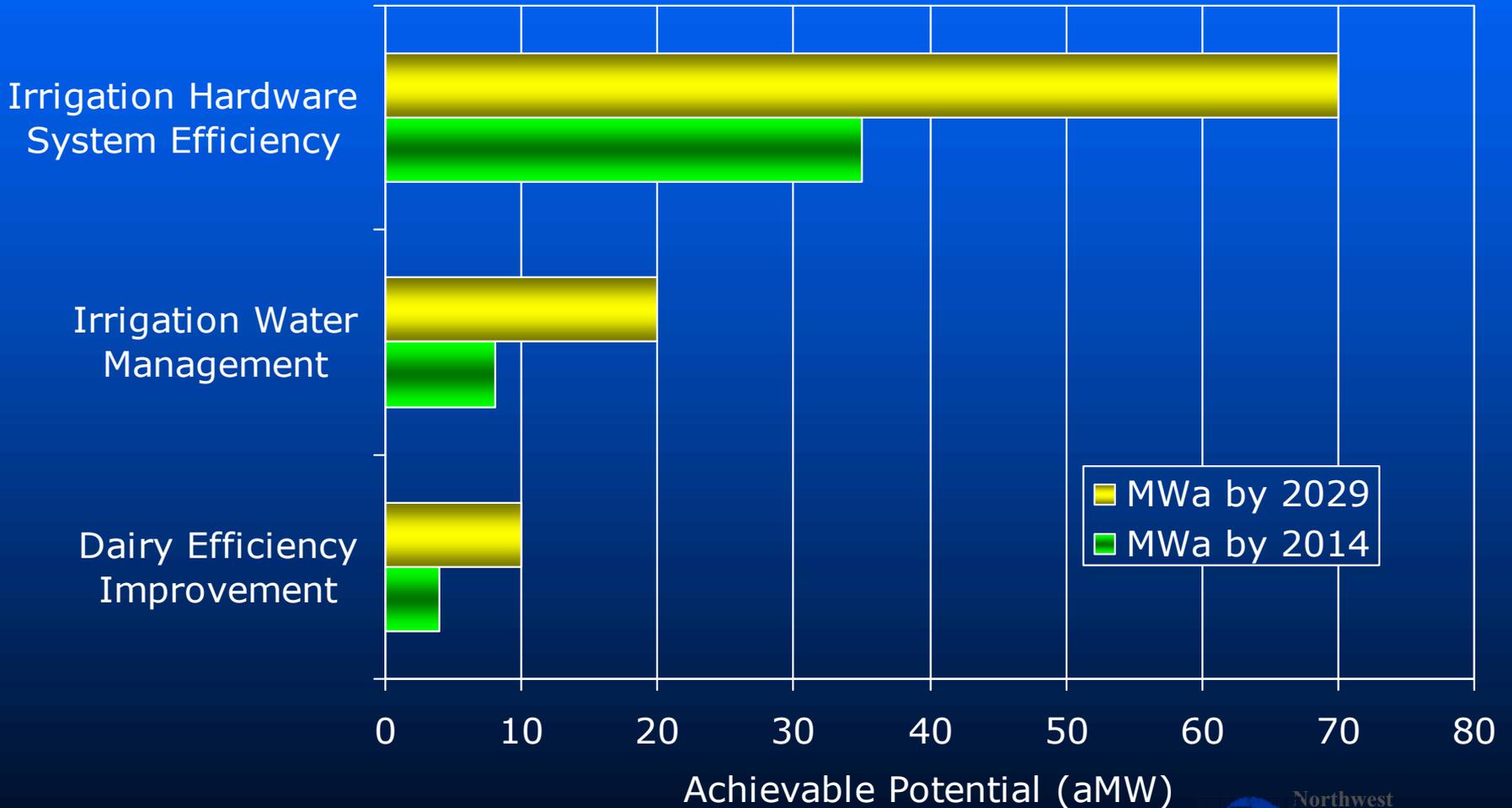
Commercial Sector – The “Big Measures”



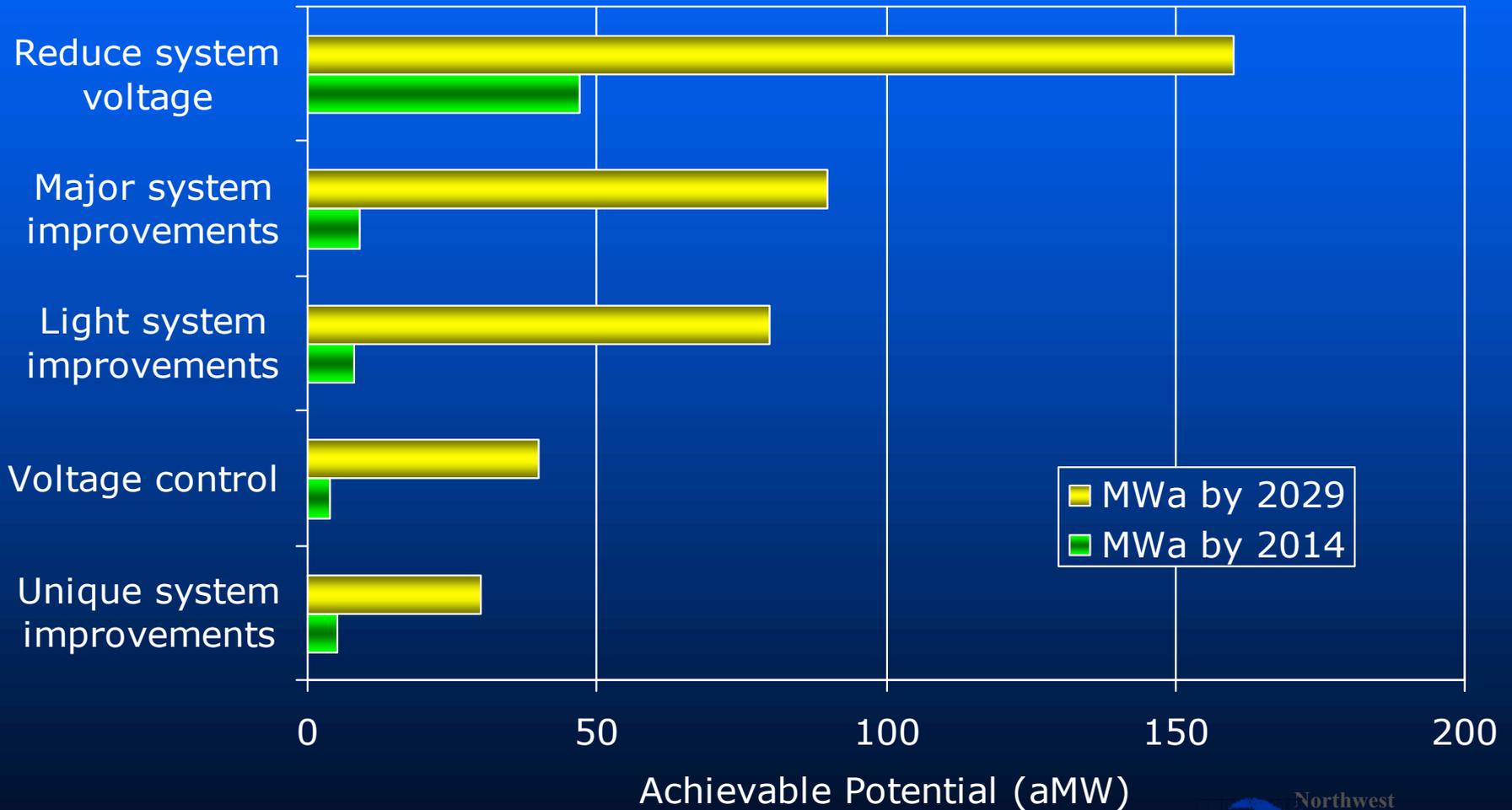
Industrial Sector – The “Big Measures”



Agricultural Sector – The “Big Measures”



Utility Sector - The "Big Measures"





Sixth Power Plan Measures

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6th Plan Measures into the PTR

- From the RTF to the PTR
- Timeline
 - April 1st
 - October 1st
- What's getting updated
 - New measures
 - Measure changes
 - Negative changes

From the RTF to the PTR

Once measures are reviewed by the RTF...

1. RTF recommendations are sent to BPA
2. BPA planning reviews measures
 - New measure?
 - Negative change?
 - Deemed? Provisionally deemed?
3. Planning and Programs determine measure path
 - New or existing program?
 - Funding? Resources?
4. Planning conducts reimbursement analysis (WTP)
5. Measures sent to Synergy for upload to PTR test site
6. Planning and Programs review and approve for PTR live site

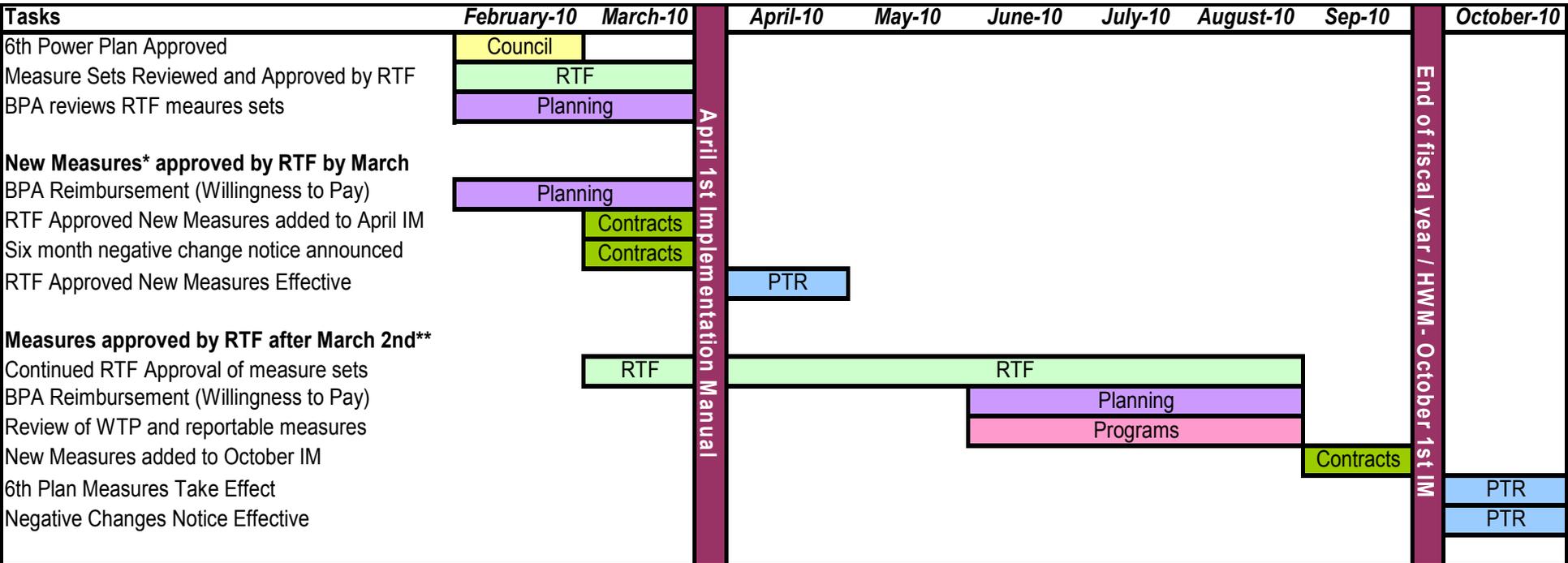
Timeline

BPA will implement 6th Power Plan measures in two phases:

- April 1st
 - New Measures approved by the RTF by March 2010
 - Measure changes approved by the RTF by March 2010
 - Custom and deemed calculators with 6th plan avoided costs
- October 1st
 - New Measures approved after March 2010 RTF Meeting*
 - Measure changes approved after March 2010 RTF Meeting
 - Negative change notices made in April 2010

*New measures approved by June may be entered into PTR before October

Timeline



What's Getting Updated in the PTR

- April 1st
 - New measures
 - Showerheads (residential and commercial)
 - Smart Strips (commercial)
 - Measure Changes
 - Irrigation Hardware
 - Commercial clothes washers
 - Negative changes notices
 - Commercial refrigerators and freezers
 - CFL's – non requested direct install limit
 - Effective negative changes
 - Dishwashers
 - Retail markdown and direct install CFL savings
 - Industrial incentive pass through
 - DHP in single family FAF applications

What's Getting Updated in the PTR

- October 1st
 - RTF will review following measure sets over the next few months
 - Updates to measures include
 - Avoided costs (all measures)
 - Baseline
 - Savings
 - Costs
 - Measure life
 - **Possible** measure changes include
 - LED downlights
 - Specialty bulbs
 - Small commercial calculator
 - Commercial refrigerator recycling

6th Plan Measures: RTF Summary

Sector	Measure Description	Most Recent RTF Review	Currently In Queue for RTF Review?
Commercial	Food Service Measures (cooking, prsv, etc.)	multiple	No
	Energy Smart Grocer Measures	multiple	No
	Network Office Equipment Control	3-2005	Yes
	Energy Smart Office	3-2008	Yes
Residential	Lighting	6-2009	Yes
	Appliances (Fridge, Dish, clothes, room A/C)	11-2008	No
	Water Heaters	11-2008	No (HPWH's)
	DHW Waste Heat Recovery	9-2002	No
	Showerheads	4-2007	Updated
	New Construction (SF, MF, MH, ducts inside)		No
	Weatherization (SF, MF, MH)		No
	Heat Pump Conversions & Upgrades	4-2009	No
	Ductless Heat Pumps	11-2007	No
	PTCS (Ducts and Heat Pump Commissioning)	9-2009	No
Other	LED Traffic Signals	9-2009	No

Non-6th Plan Measures: RTF Summary

Sector	Measure Description	Most Recent RTF Review	Currently In Queue for RTF Review?
Agriculture	Stock Watering Tanks	7-2009	
	Green Motor Rewinds	7-2009	
	Irrigation Hardware	1-2010	Updated
	Premium Motors	8-2009	
	Potato and Onion Shed VFDs	4-2009	
	Dairy VFD's	5-2002	x
Commercial	Grocery - LED Case Lights	1-2010	
	Grocery - Case Light Motion Sensors	1-2010	
	Grocery - ECM's in Display Cases	1-2010	
	Power Strips	4-2009	Updated
	Steamers	5-2009	Updated
	Small Commercial Heat Pumps	11-2009	x
	Small Commercial Weatherization	11-2009	x
	Vending Miser		x
Industrial	Green Motor Rewinds	7-2009	
	Premium Motors	6-2003	x
Other	Utility Transformer Replacement	4-2007	x

Non-6th Plan Measures (continued)

Sector	Measure Description	Most Recent RTF Review	Currently In Queue for RTF Review?
Residential	Commercial Fridge/Freezers	6-2008	Updated
	New Construction - Single Family Slab Insulation	11-2008	
	Montana House	6-2009	
	Power Strips	4-2009	
	New Construction - EcoRated Manufactured Homes	3-2009	
	Refrigerator Early Retirement	4-2007	x
	Plug-in Estar Light Fixtures		x
	LED Holiday Lights	7-2002	x
	Bi-metal Thermostat Replacements	1-2003	x
	DHW Pipe Insulation	1-2003	x
	Multifamily Low Rise New Construction Package		x
	Energy Star Homes		x
	Whole-house Air-sealing	1-2003	x
	GSHPs	7-2007	x
	Solar Water Heaters		
Solar Electric			

Contact

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