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Commercial Code Enhancement (CCE) Initiative

DOE Energy Codes Conference

John Jennings

Northwest Energy Efficiency Alliance

NEEA is…

TOGETHER We Are Transforming the Northwest

Participating Funders

Avista
Bonneville Power Administration
Clark Public Utilities
Clallam PUD
Columbia REA
Energy Trust of Oregon
Idaho Power
NorthWestern Energy
Puget Sound Energy
Pacific Power
Seattle City Light
Snohomish PUD
Tacoma Power

Context: Problem Statement

There are challenges ahead

- Harder to find efficiency measures
- Non-regulated loads
- Operations and Actual performance

CCE Initiative Concept

A regional framework with state specific plans supporting the adoption of **progressively effective** energy codes.

Initiative Outcome: Progressively Effective Commercial Building Energy Codes

- **Market practice leads** and informs code
- **Strategic partnerships** between utilities, jurisdictions and the design and construction industry
- **Less complex** codes
- **Lower energy use**

How is CCE Different than the NEEA Code Program?

1. **Goal Driven:** Progressively Effective Code
2. **Future Focused:** Multi-Code Cycles and Strategies for the Future
3. **Employs Market Transformation Mechanisms**

Market Opportunities & Barriers

Fragmented regional voluntary programs

No Business Case for Developers and Builders

Lack of proof for proposed tech

Resistance to Change

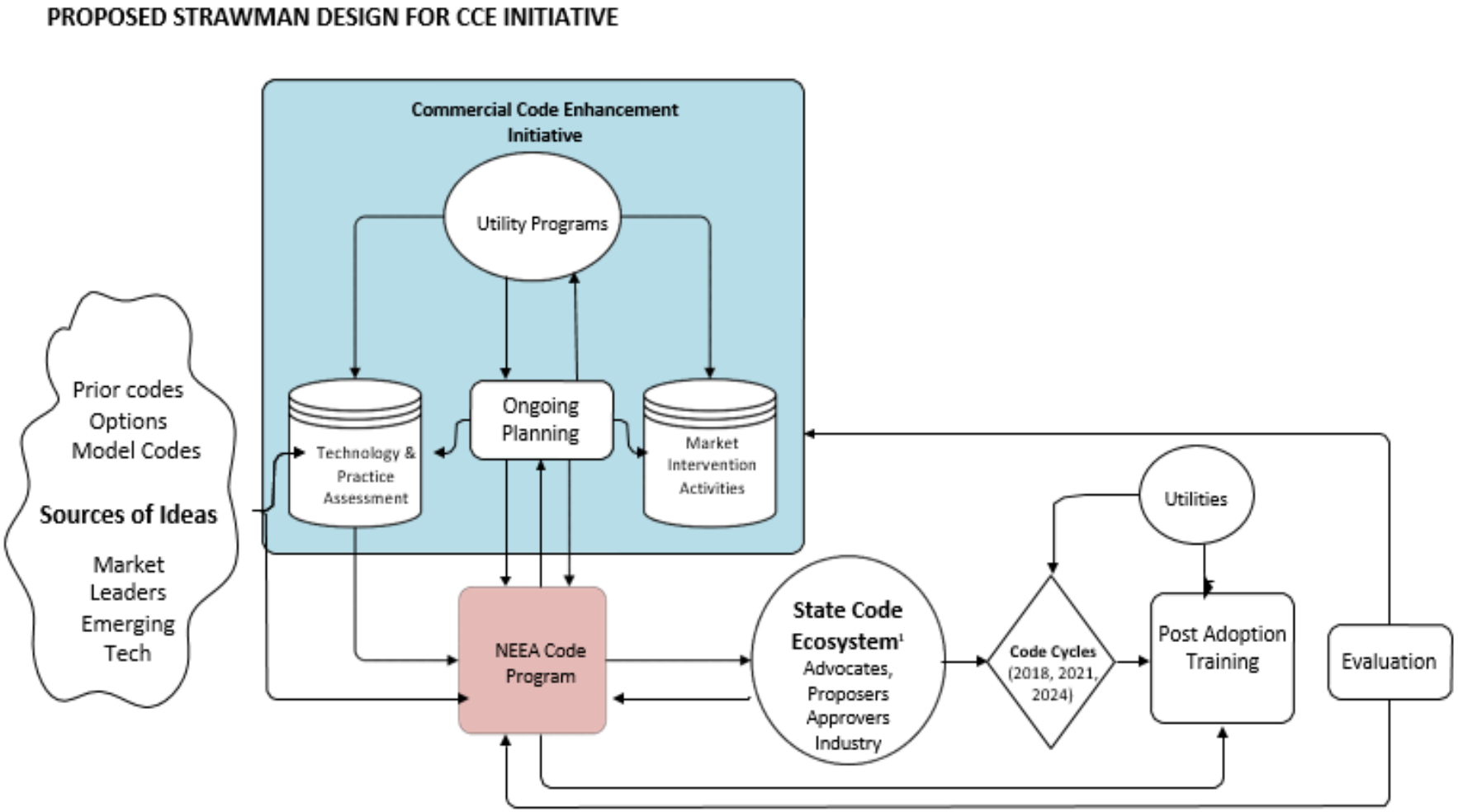
Market Opportunities/Barriers & Related Interventions

Market Opportunity/Barrier	Intervention
Coordinate fragmented regional CNC voluntary programs and activities	• Facilitate state action plans; • Build acceptance and support in the market through experience and examples (proof of concept) from programs
Concern over cost of change (lack of value proposition) among developers and builders	• Demonstrate value through solution-oriented, real-world examples (case studies, testimonials) • Educate on positive impacts to their business (value proposition)

Barriers & Interventions - 2

Market Opportunity/Barrier	Intervention
Lack of proof of viability and affordability of proposed technologies	• Technology research and demonstration • Technical assistance, tools, case studies • Education and promotion
Resistance to change among code officials (perceived time, cost, hassle) Life/safety over energy	• Agreement on goals and actions through state action plans • Demonstration of support from the market • Proof of value (viability and affordability) through demonstrations and evidence from voluntary market efforts

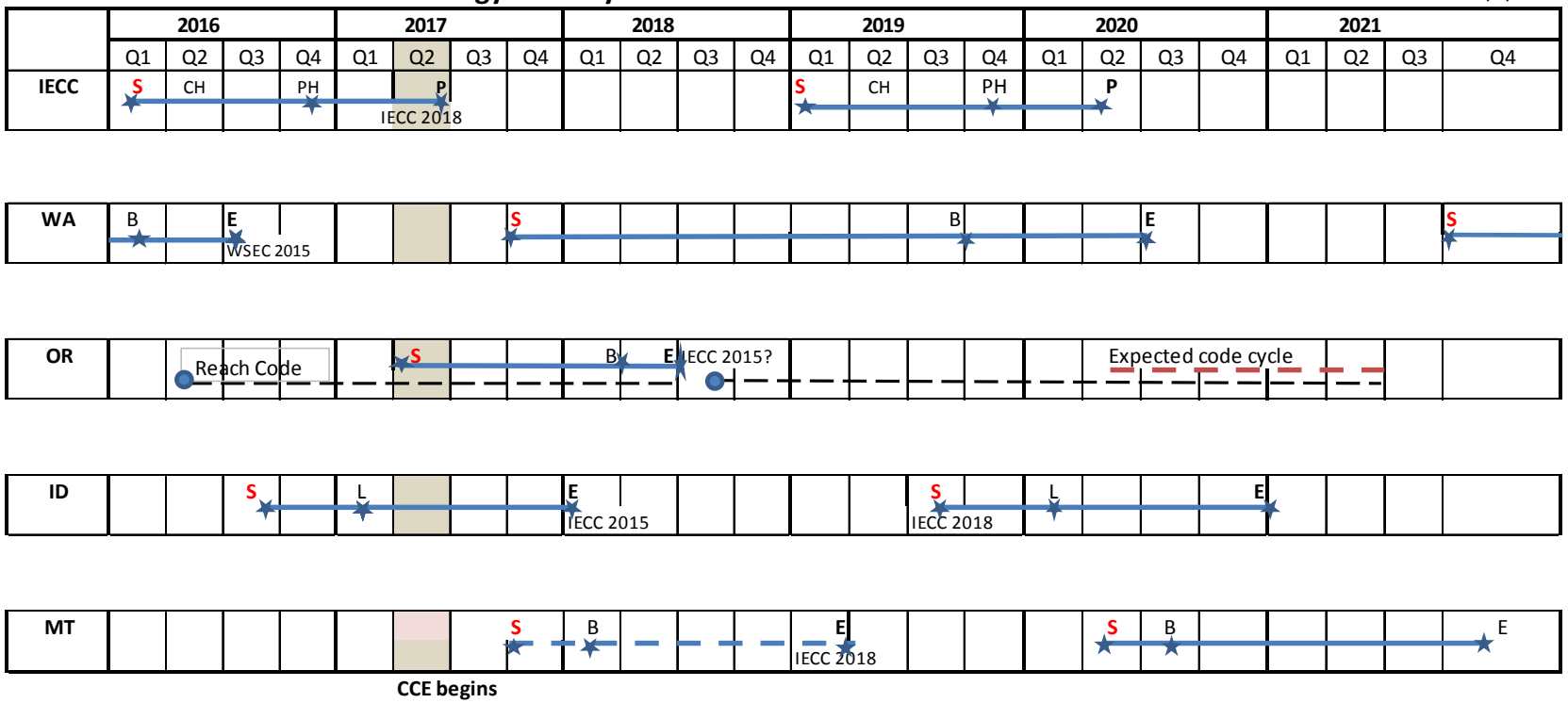
Integration Concept



1. State agencies, State Collaboratives, Consultants, Utilities, **Code Officials/Jurisdictions**

Code Schedules

Northwest States and National Energy Code Cycles 10/5/2016



L	Legislative Approval	B	Code Board Adoption	S	Code Proposal Submittal
E	Effective Date (Tracking Begins)	CH	Committee Hearings		
P	Published/Adoptable	PH	Public Hearings		

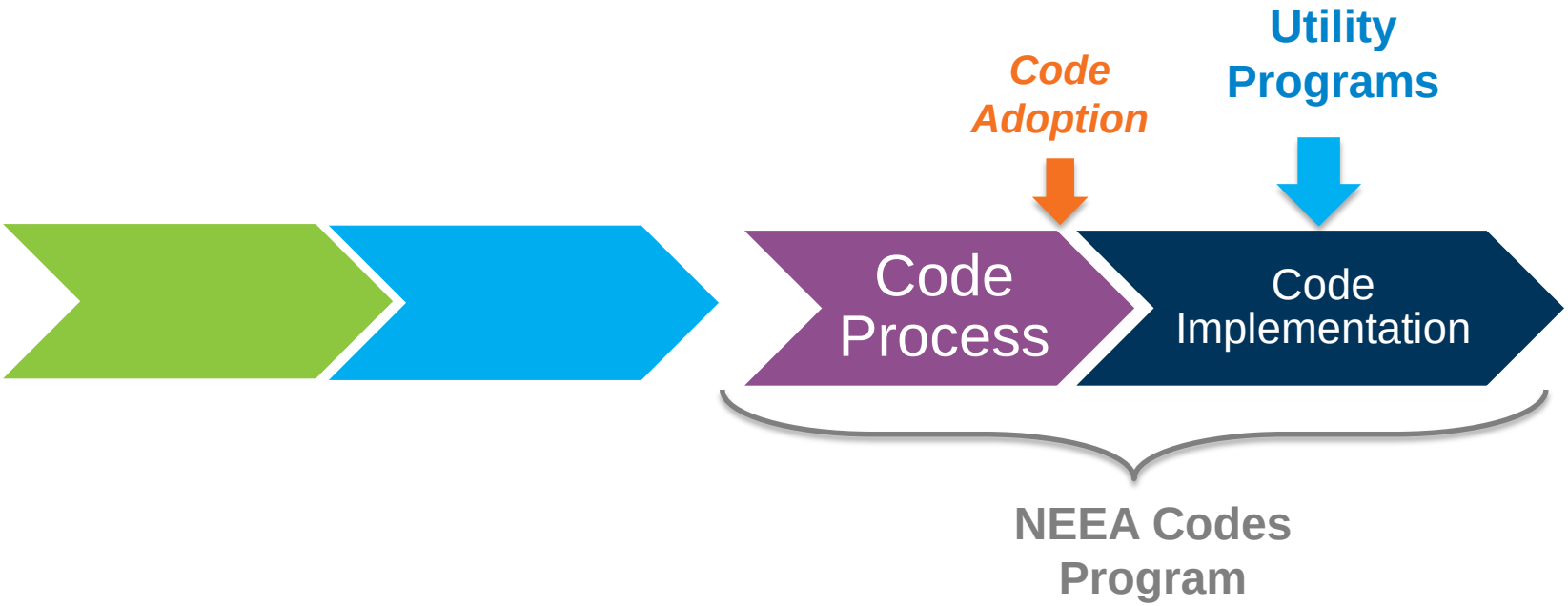
Key Initiative Activities

State-specific Coordination Plans

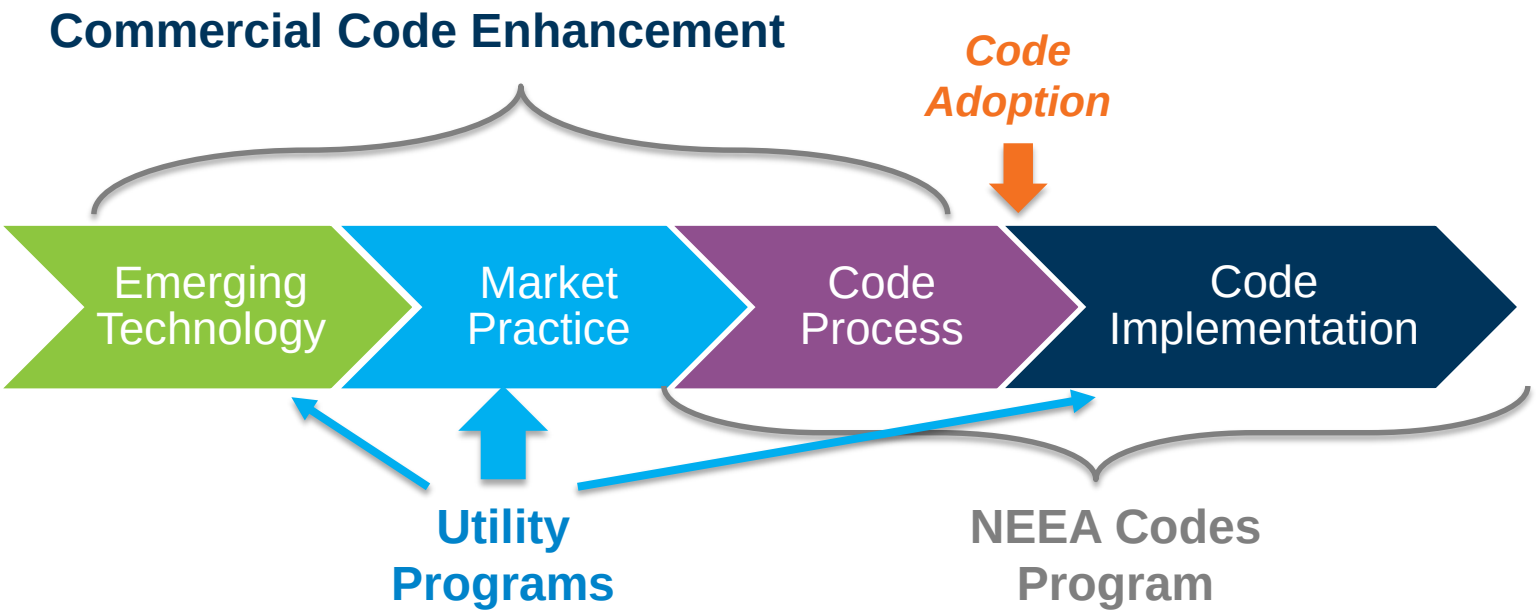
Technology and Practice Assessments

Market Intervention Strategies

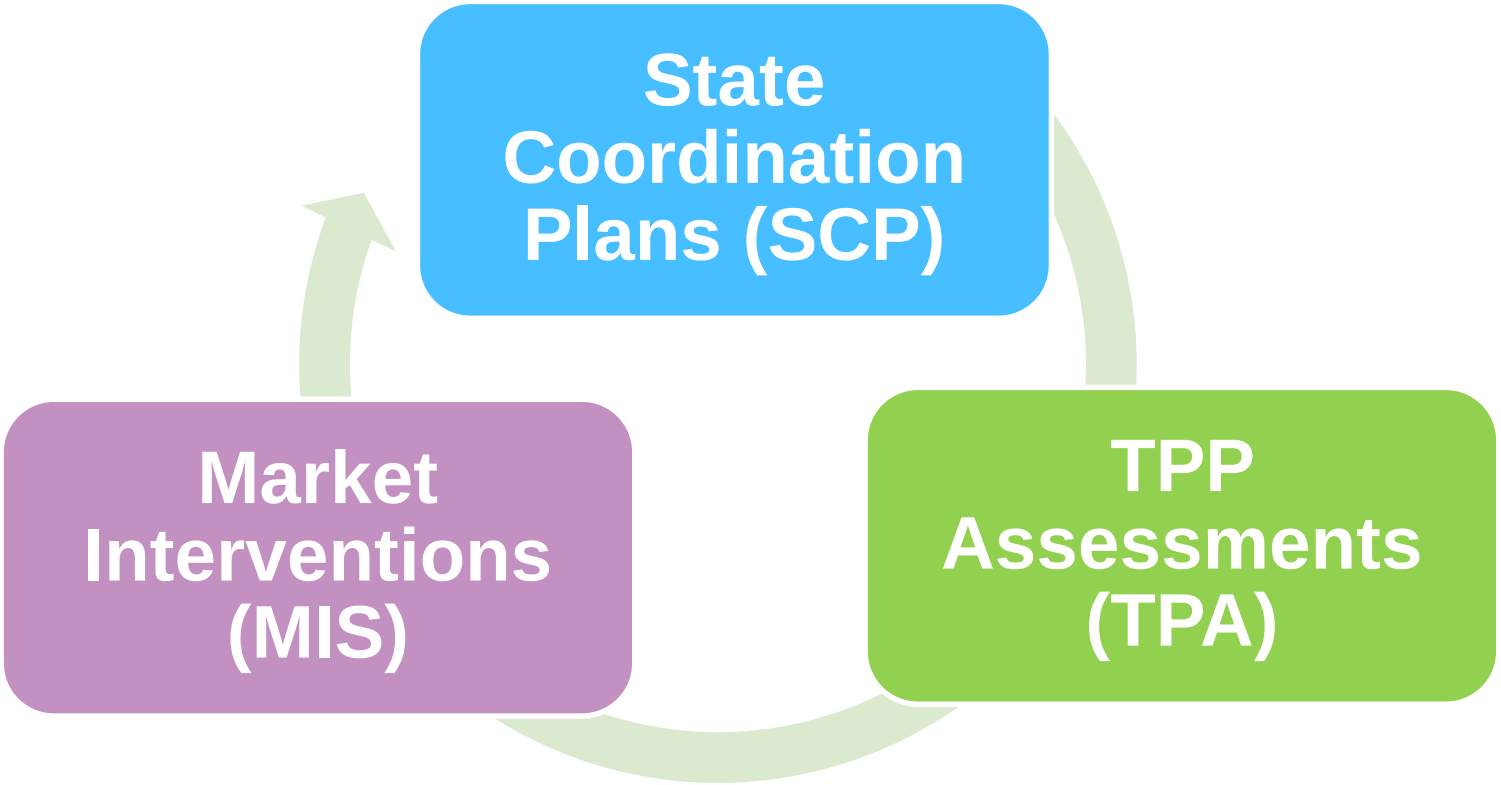
Pre-CCE Approach



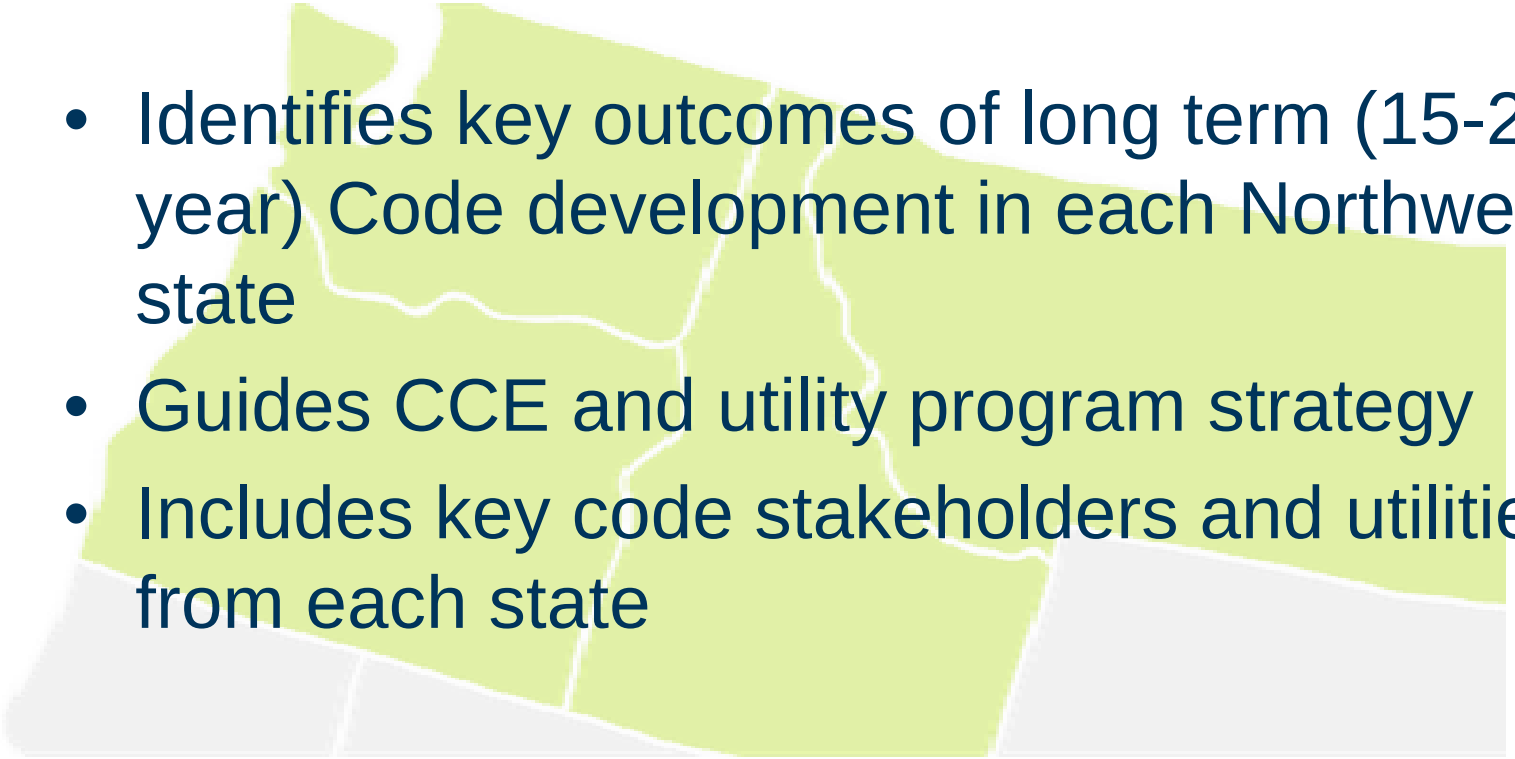
Desired Future State



Initiative Components



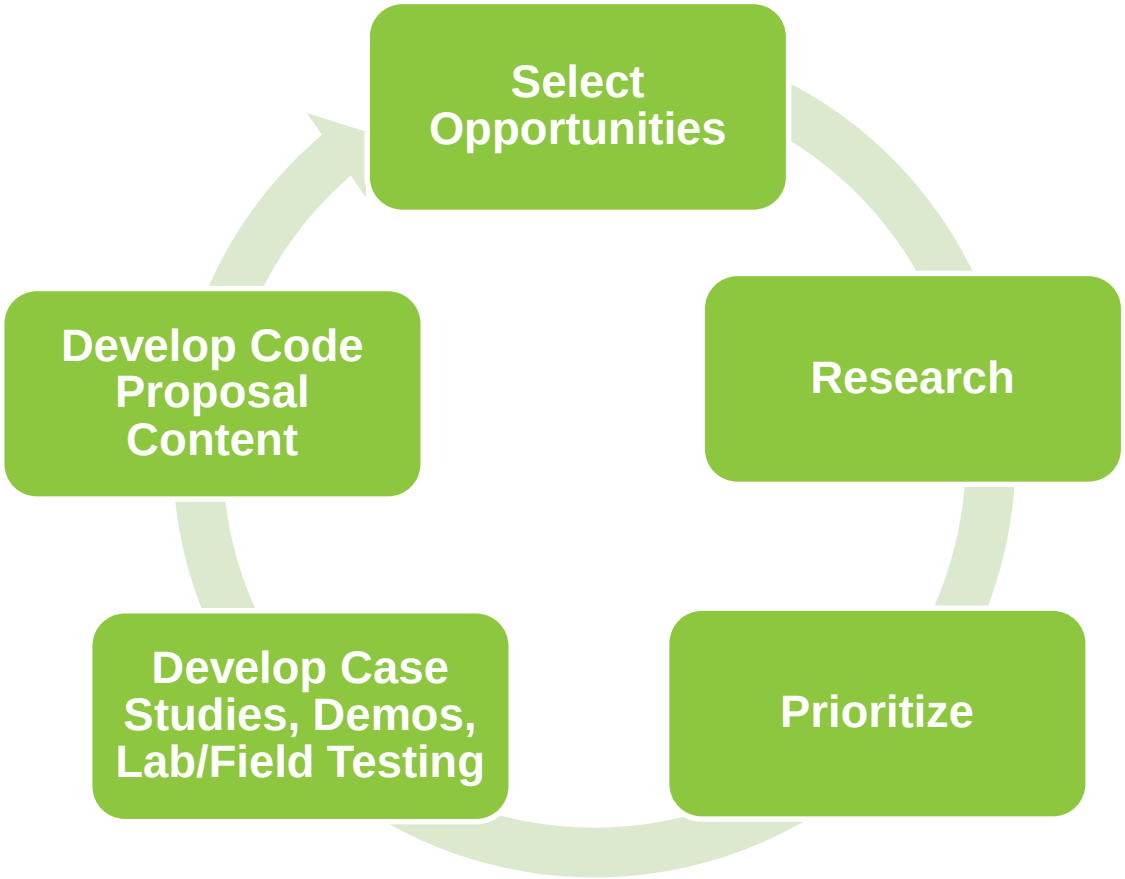
State Coordination Plans



- Identifies key outcomes of long term (15-20 year) Code development in each Northwest state
- Guides CCE and utility program strategy
- Includes key code stakeholders and utilities from each state

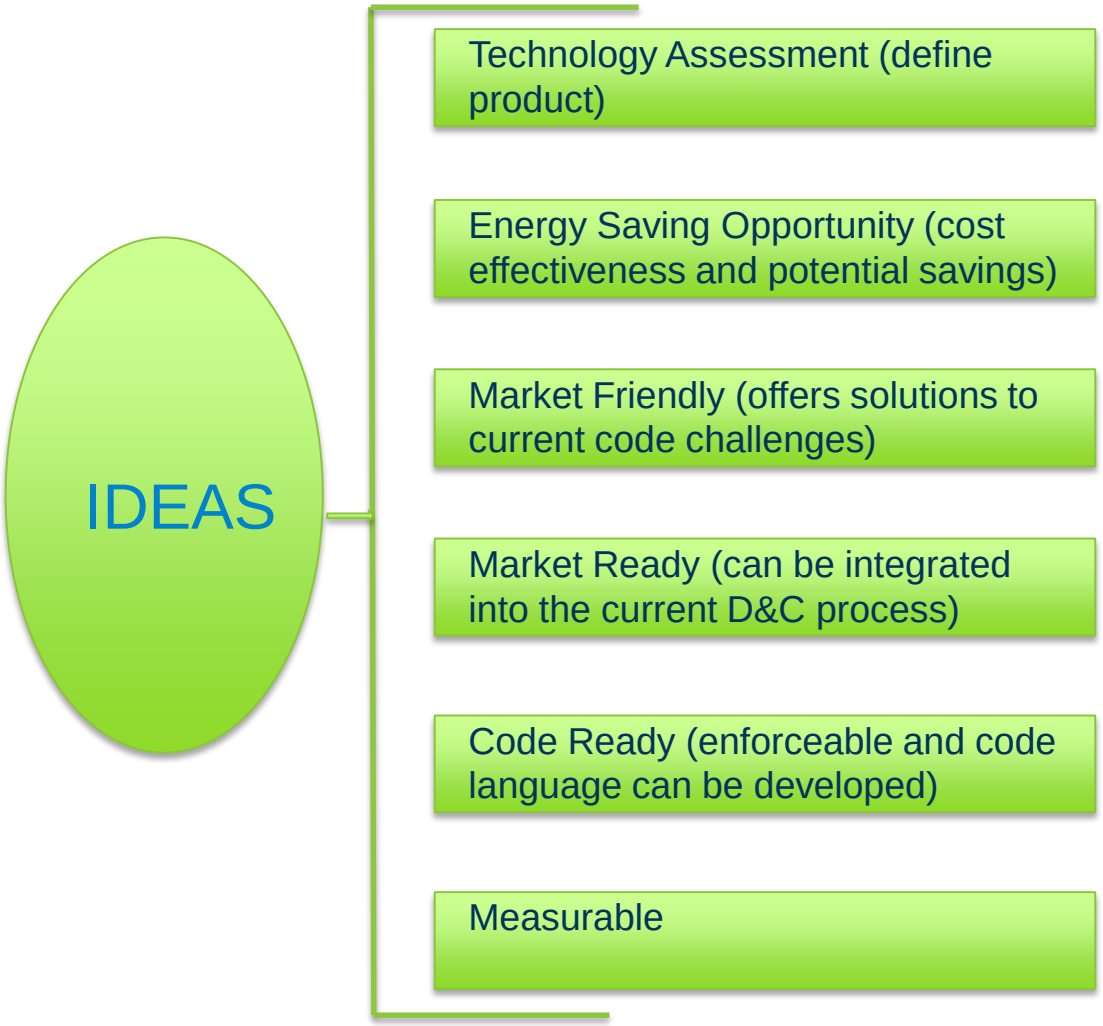
- **More detail in the next presentation**

Technology/Practice Assessment (TPA)



CCE TPA in Action

Filter for Technologies, Practices, and Processes



Internal Criteria:
Does idea sync with or impact utility programs?

Does it fit CNC market strategy?

Technology/Practice Criteria

1. Defined and commercially available
2. More energy efficient than alternatives
3. Market-ready
4. Market-friendly (offers solutions)
5. Code-ready (definable, enforceable)
6. Measurable (impacts trackable)
7. Aligned with NEEA's CNC Market Strategy
8. Compatible with utilities' programs and plans

Technology and Practice Scoring

	Score	1	2	3	4	5
SAVINGS	Energy Savings Opportunity				X	
	Cost Effectiveness			x		
	Measurability				x	
MARKET	Defined and Available					x
	Market Ready		X			
	Market Friendly					x
PROGRAMS	Code Ready				x	
	Industry support	x				
	Compatibility with Utility Programs		x			

CCE Implementation

- Develop state coordination plans
- Apply Technology and Practice Assessment
- **Determine and implement market intervention strategies**
- Periodically convene initiative Utility work group

CCE Implementation

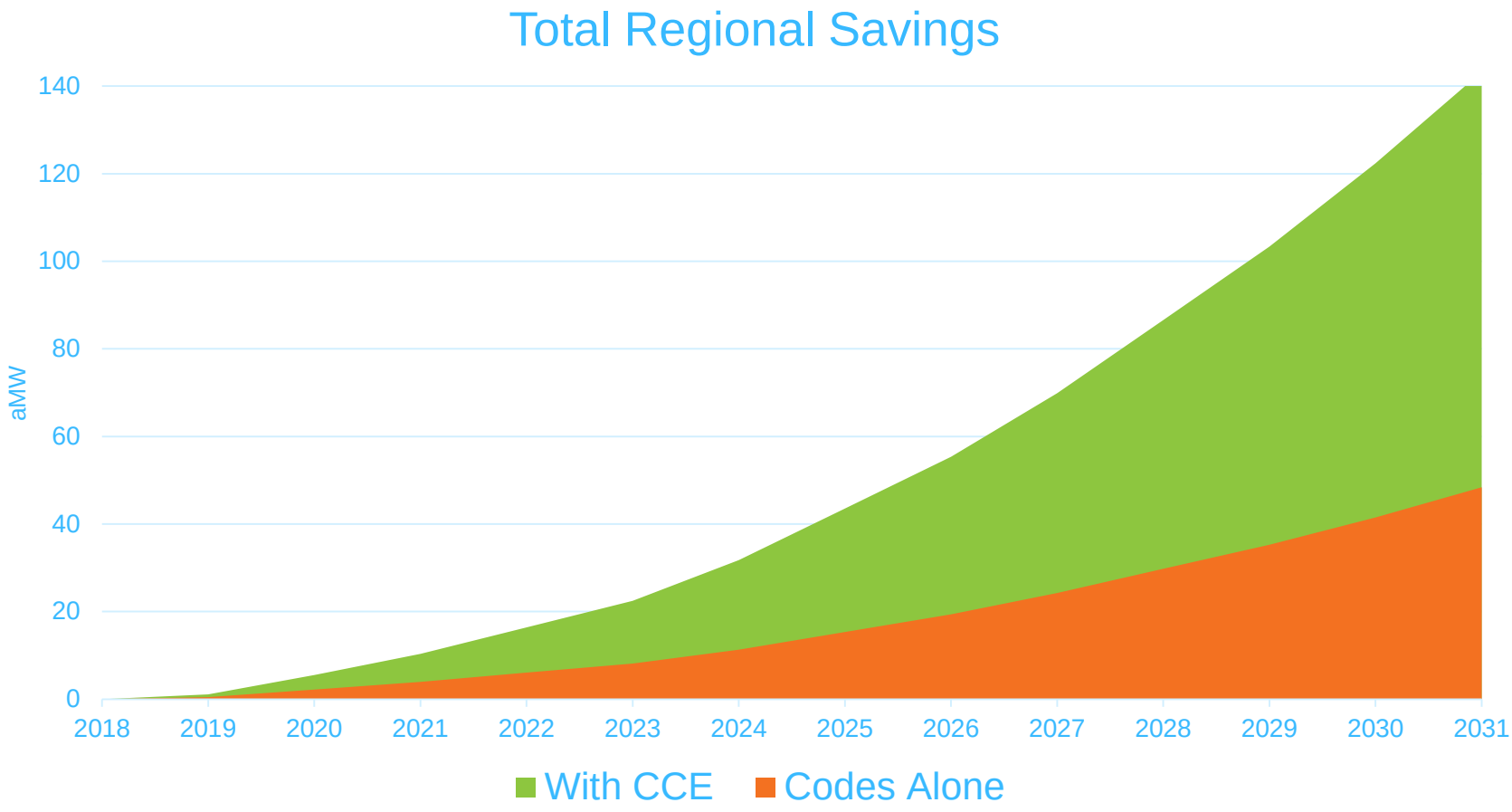
Market Interventions:

- Real-world examples (data, case studies, testimonials)
- Build acceptance and support
  - Awareness
  - Education
- Technical assistance & tools
- Code official / Board information

Early Actions: WA Proposals

1. Performance Path Baseline Change to Appendix G
2. HVAC Total System Performance Ratio
3. DOAS Enhancement and Market Preparedness

Impact: Savings



Thank You

John Jennings
jjennings@neea.org

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