

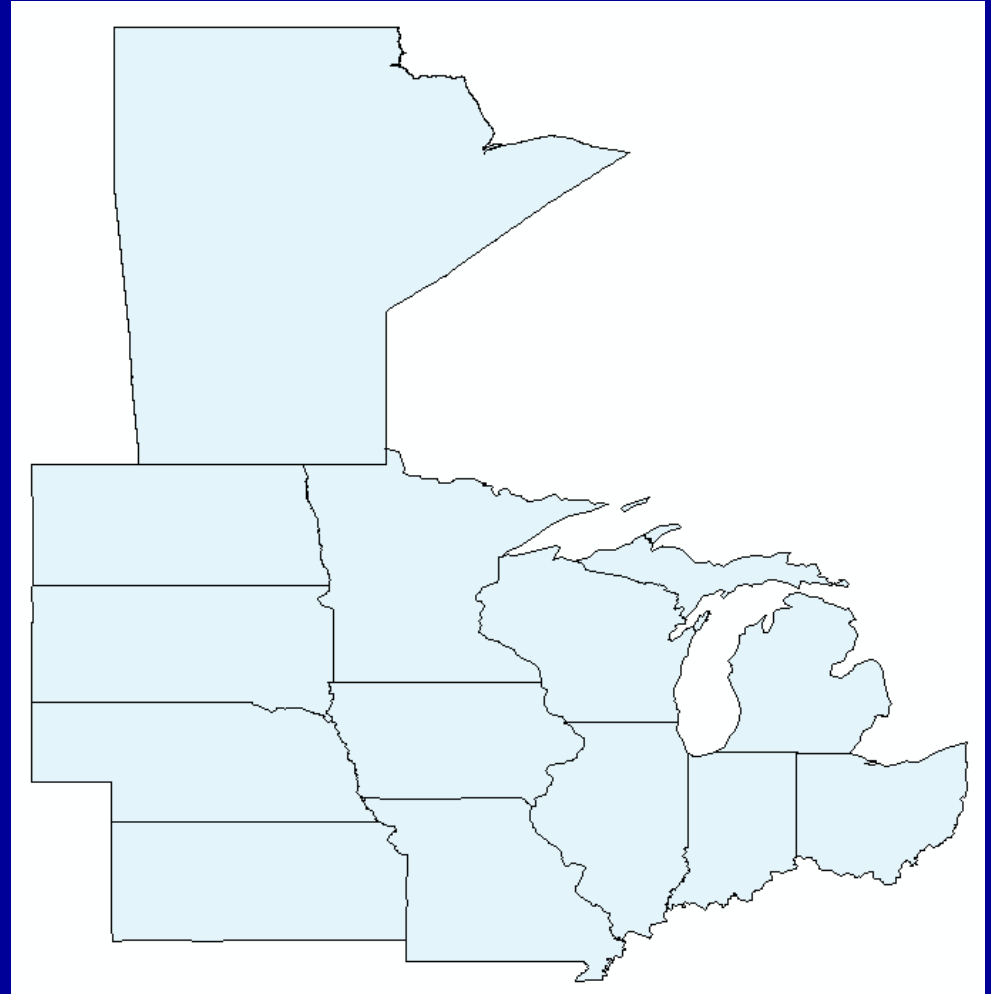
# Midwestern Governors' Energy Security & Climate Stewardship Summit

## Overview of Summit Platform and GHG Accord



# Midwestern Governors Association

- 12 States
  - Illinois
  - Indiana
  - Iowa
  - Kansas
  - Michigan
  - Minnesota
  - Missouri
  - Nebraska
  - North Dakota
  - Ohio
  - South Dakota
  - Wisconsin



12-State MGA Footprint plus Manitoba

# Midwest's Strategic Contributions

- Advance policy *and* technology commercialization: Midwest pragmatism of portfolio approach.
- Push U.S. federal policy debate: Midwest currently center of gravity in that country that politically matters most.
- Leverage global change by domestic example: China, India and other major developing countries matter most—they will look to what we DO, not what we say.

# Midwest: Microcosm of Climate Challenge

- **Short-term vulnerabilities:**
  - Most coal-dependent power sector
  - Energy intensive manufacturing and ag
- **Longer-term opportunities:**
  - World class renewables potential
  - Vast reserves of coal with geologic formations to store CO<sub>2</sub> and ag land, forests and wetlands to sequester it
  - Industrial base that can be retooled to design, manufacture and service next generation energy technologies at scale
- **How to transition from vulnerability to opportunity?**
  - MGA Summit Platform provides regional starting point and framework

# Elements of Summit Package

- Comprehensive in scope, integrated in approach and ambitious in its measurable goals and deliverables

## **Tier I: Guiding Principles and Key Strategies**

## **Tier II: Measurable Goals, Objectives & Policy Options**

1. Efficiency
2. Bio-based Products and Transportation
3. Renewable Electricity; and
4. Advanced coal with CCS.

# Elements of Summit Package

## **Tier III: 6 Cooperative Regional Initiatives**

- CO2 management infrastructure partnership
- Transmission adequacy initiative
- Low-carbon energy transmission infrastructure
- Bioproduct procurement program
- Renewable fuels corridors and common signage
- Advanced bioenergy permitting collaborative

## **Tier IV: GHG Reduction Accord**

- Midwest equivalent of RGGI and WCI
- IA, IL, KS, MI, MN, WI & Province of Manitoba as full signatories
- IN, OH, SD and Province of Ontario as observers

# Tier II: Efficiency

- **Goal:** Meet at least 2% of regional annual retail sales of natural gas & electricity via efficiency by 2015 and each year thereafter.
- Measured annually by baseline of rolling average of previous three years retail sales.
- C02 Savings = eliminate growth in C02 from electricity & gas after 2015 (and eventually much deeper reductions)

# Tier II: Bio-Based Products & Transportation

## Goals by 2025:

- Increase availability of low-carbon fuels by 10-fold
- Reduce fossil fuel inputs to biofuels by half
- Meet half the region's transportation demand with biofuels and other low-carbon fuels

# Tier II: Renewable electricity

## Goal by 2030:

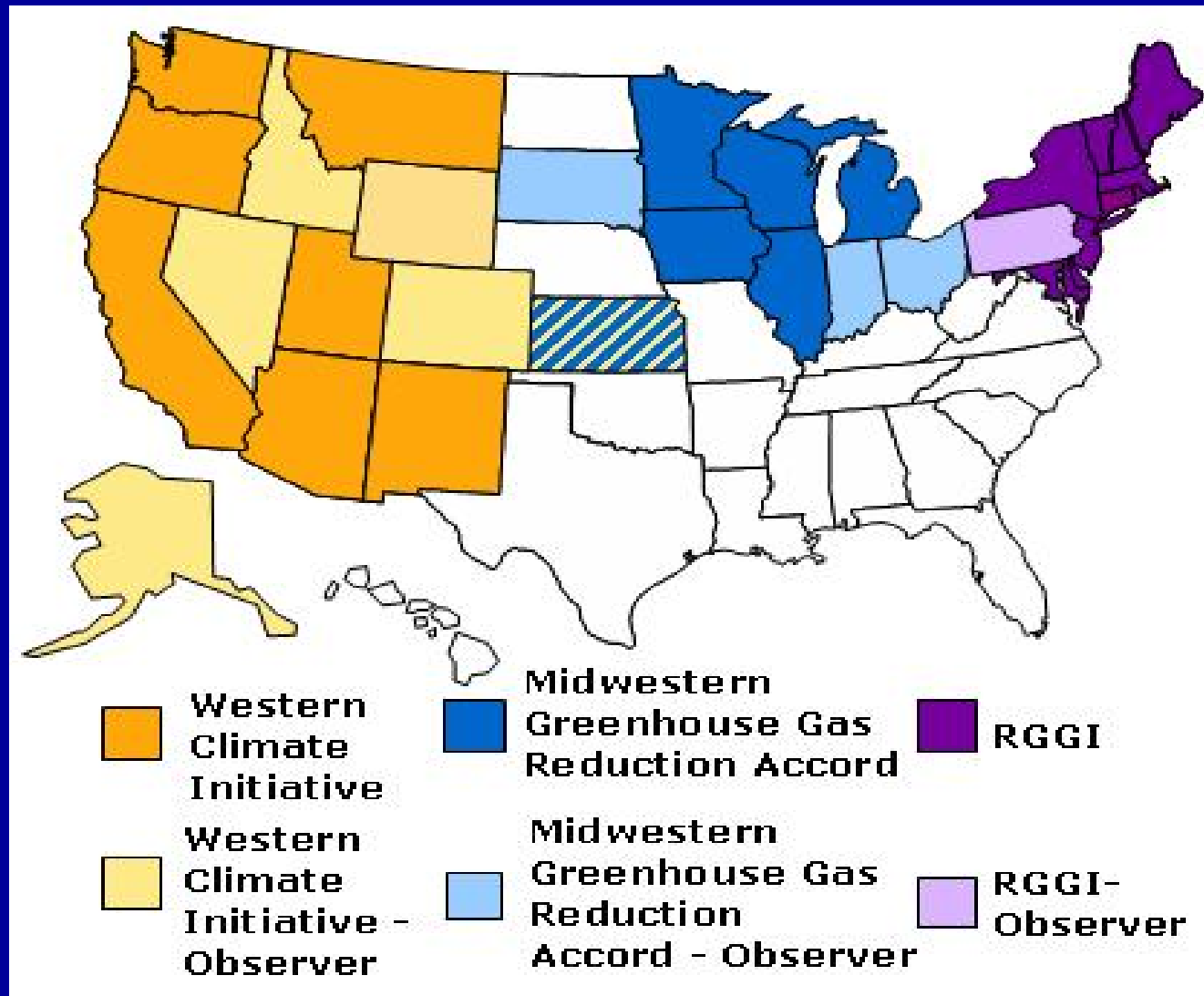
- 30% of electricity consumed comes from renewable sources
- Includes portfolio of new renewable generation
- For perspective: roughly 83,000 1.5 MW commercial wind turbines (or enough to supply 31 million avg. American homes today)

# Tier II: Advanced Coal w/CCS

## Goals:

- **By 2012:** A multi-jurisdiction CO<sub>2</sub> pipeline sited and permitted.
- **By 2015:** Commercial IGCC with CO<sub>2</sub> capture using both eastern & western coals by 2015 (MGA states have 25% of U.S. recoverable reserves).
- **By 2020:** all new coal plants have CCS.
- **By 2050:** entire coal fleet is transitioned to CCS.

# States Covered by GHG Accords = 50% of pop. + > 50% of GDP



Map Source:  
[www.pewclimate.org](http://www.pewclimate.org)

# Advisory Groups

- Energy Efficiency
- Bioeconomy & Transportation
- Renewable Electricity, Advanced Coal and Carbon Capture
- Greenhouse Gas Accord

# GHG Accord Timeline

**July 2008** – Establish targets for GHG emission reductions

**November 2008** – Complete development of proposed Cap & Trade agreement and model rule

**July 2010** – “Complete the undertakings”

# MGA



Midwestern Governors Association

[www.midwesterngovernors.org](http://www.midwesterngovernors.org)

[www.midwesternaccord.org](http://www.midwesternaccord.org)