THE IMPACT OF CLIMATE CHANGE ON REAL ESTATE DEVELOPMENT

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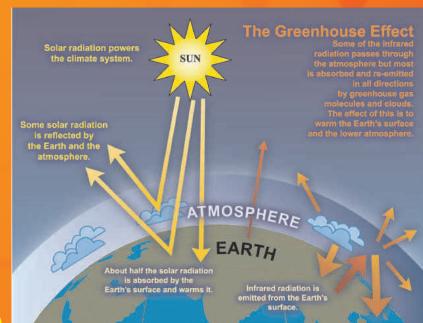


Historical Glimpse at Global Air Impacts

- Types and Sources
 - Acid Rain
 - Ozone Layer diminution
 - Global Warming
- Geopolitical Response
 - Treaties
 - Developed vs. Developing Countries



- Greenhouse Effect
- Types of GHGs
 - Carbon Dioxide (CO₂)
 - Methane (CH₄)
 - Nitrous Oxide (N₂O)
 - Hydrofluorocarbon (HFCs)
 perfluorocarbon (PFCs),
 sulfur hexafluoride (SF₆)



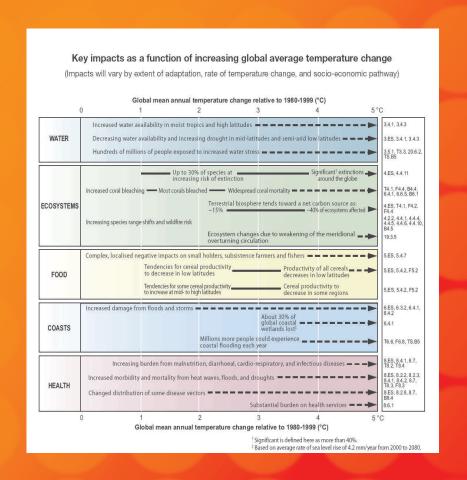
- Global warming caused by increased emission of GHGs is generally accepted among scientific community
- "Most of the observed increase in globally averaged temperatures since the mid-20th century is very likely due to the observed increase in anthropogenic GHG concentration."

 Summary for Policymakers of the Synthesis Report of the IPCC Fourth

Summary for Policymakers of the Synthesis Report of the IPCC Fourth Assessment Report (Draft – November 16, 2007)



- Environmental Impacts
 - Water supply
 - Rising sea levels
 - Major agricultural shifts
 - Species risks
 - Extreme weather



- Environmental Impacts in PA & Philly
 - Increased temperatures
 - Georgia summers
 and 100° days
 - Jersey Shore flooding



Legal Framework

- International Efforts
 - 1992 Rio Treaty
 - 1997 Kyoto Protocol
 - U.S. withdrawal
 - 2007 Bali conference







U.S. Federal Efforts

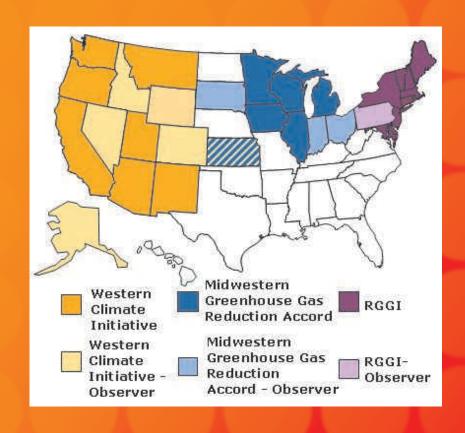
- Pre-2007: questioning science and policy while relying on voluntary efforts
- 2007 events
 - Democrat control of Congress
 - Massachusetts v. EPA
- Upcoming activity
 - EPA tailpipe regulation
 - GHG cap and trade legislation





Regional State and Local Response

- RGGI
- Midwest Greenhouse
 Gas Reduction Accord
- Western Climate
 Initiative
- California
 - AB 32
 - Pavley Amendment
- New Jersey Global
 Warming Response Act



Regional State and Local Response

- Pennsylvania
 - Alternative Energy Portfolio Standard and Energy Independence Strategy
 - Rendell climate change strategy
 - HB 110 and SB 266 recently passed







Regional State and Local Response

- Montgomery County Greenhouse Gas Reduction Task Force
- Lower Merion Environmental Action Plan
- Haverford Township GHG inventory and action plan







Land Use Responses Elsewhere

- Massachusetts Greenhouse Gas Emission Policy
 - Projects subject to Mass. Environmental Policy Act ("MEPA")
 now required to "identify and describe sources of and propose
 measures to avoid, minimize or mitigate for project related
 GHG emissions."
 - Both direct and indirect GHG emissions
 - Developers will be required to commit to GHG reduction measures
- Harvard example
 - First legally enforceable limit on GHG emissions from a major real estate project in US

Land Use Responses Elsewhere

- California Environmental Quality Act ("CEQA")
- San Bernardino County lawsuit & settlement
- California legislative compromise
 - All CEQA documents must address GHG emissions and climate change



Land Use Responses in Pennsylvania

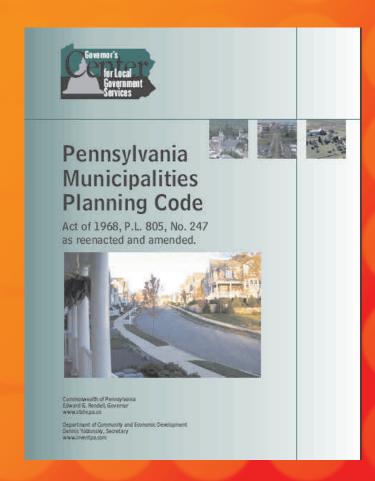
- No PA NEPA
- Article I, § 27?



- Not self-executing for purposes of government regulating
- Public can challenge that state approval has violated § 27, (but usually loses)
- Public challenge of DEP or other agency approval for failure to consider climate change?

Land Use Responses in Pennsylvania

- Municipal control and MPC
 - Section 301.1 comprehensive plan may include energy conservation element
 - Act 68
 - Comprehensive plan include protection of resources
 - DEP approvals must take into account comprehensive plan under § 619.2
 - If GHG consideration part of comprehensive plan, does DEP need to consider GHG emission before issuing permit?
- Should MPC be amended?



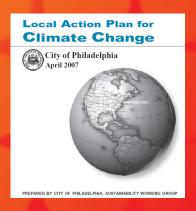
County and City Efforts

- Montgomery County Greenhouse Gas Reduction Task Force
 - Green buildings and fleet
 - Financial incentive to municipalities
 - Educate municipalities



County and City Efforts

- City of Philadelphia
 - Commitment to reduce GHG emissions through a number of inter-city agreements
 - 2007 Local Action Plan for Climate Change
 - LEED certification for new construction
 - Transit Oriented Development
 - Establish office of Sustainability and Environment
 - Zoning reform: incentivize green development



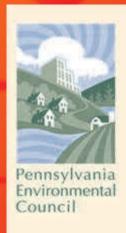
Smart Growth Comes of Age

- Gov. Ridge 21st Century Environment Commission Land Use Task Force
- Act 67
 Multi-municipal planning
- Transit Oriented Development
- Act 537
- More stringent storm water requirements



Smart Growth Comes of Age

- Pennsylvania Environmental Council Roadmap for Climate Change
- Land use recommendations
 - Smart Growth & Smart Transportation
 - Incentives for redevelopment of Brownfields
 - Amend MPC for more regional planning
 - Create "greenbelts"



Changes today – Voluntary Steps – Market Reaction

- Mixed use development near transit stations
- Energy use reduction
 - Green building
 - LEED compliance
 - Density bonuses
- Alternative energy use & generation
 - Inclusionary or exclusionary?



What Does Future Hold?

- Federal and State future mandates and incentives?
- International impacts?

