



区域联防联控 演讲A

区域空气质量规划组织： 最佳实践和美国的经验

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Order of Presentation 框架

- History
- Why were organizations formed?
- Examples of successful initiatives
- Structure
- Funding
- Recommendations for China
- 历史
- 组织成立的原因是什么?
- 成功项目案例
- 组织结构
- 资金
- 对于中国的建议

Conclusions

结论

- Regional air quality organizations:
 - Facilitate information exchange,
 - Coordinate policy,
 - Help to assure consistent requirements and sustained implementation
 - Give provinces one voice to influence national policy and guidance
- 区域空气质量组织:
 - 促进信息交流
 - 协调政策
 - 帮助确保要求的一致性和持续实施
 - 给予各省份在制定国家政策 and 指南时的话语权

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Why Were Regional Air Quality Organizations Formed?

区域空气质量组织成立的原因是什么？

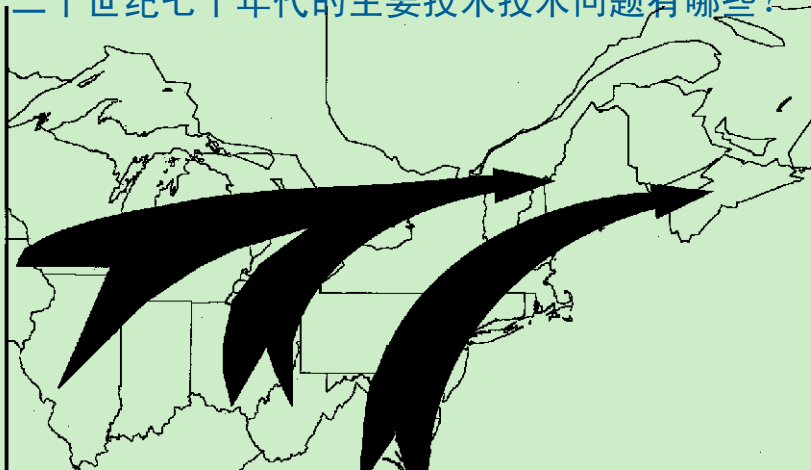


Why were trees dying?
树为什么会死？

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What Were the Key Technical Questions Asked in the 1970s?

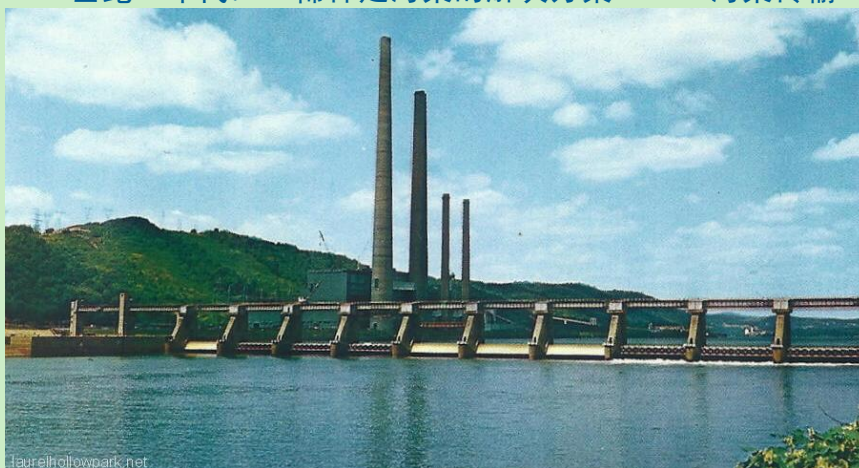
二十世纪七十年代的主要技术技术问题有哪些？



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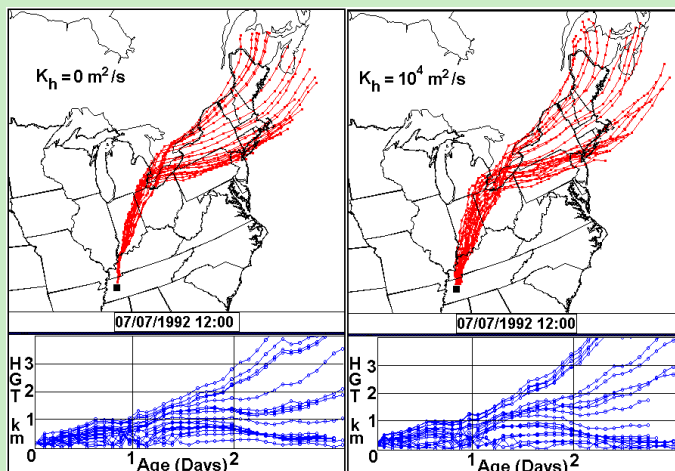
1970s: “Dilution is the Solution to Pollution”...= Pollution Transport

20世纪70年代：“稀释是污染的解决方案”...= 污染传输



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Science and Analytical Techniques Continued to Improve through the 1980s and 1990s. 20世纪80至90年代科学和分析技术不断进步



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NESCAUM Initiatives 美国东北部八州空气资源协作管理协会 (NESCAUM) 的计划

- Formed 1967. One of several such organizations today
- Reduced volatility of gasoline: Reid vapor pressure (RVP) 9 psi in 1989
- Issued guidance: BACT for small sources 1992
- Informed national policy on emissions from hospital incinerators (early 1990s)
- Collaboration with California on vehicle emissions standards (since mid 1990s)
- Clean Air Academy (1990s): train air staff
- NESCAUM成立于1967年，目前有若干类似的组织。
- 减少汽油的挥发量：1989年的瑞德蒸汽压为9 磅/平方英寸
- 发布的指南：小污染源最佳可行控制技术（1992年）
- 公布关于医院焚化炉排放的国家政策（二十世纪九十年代初期）
- 与加州就机动车尾气排放标准开展合作（始于20世纪90年代中期）
- 清洁空气研究院（20世纪90年代）：人员培训

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Regional Organization Structure (1)

区域组织结构（1）

- How do government agencies work together? (technical and administrative)
- How do regional organizations work with regulated sources and the public?
- Role of EPA as referee, and technical/funding support
- 政府机构间如何开展合作？（在技术和管理方面）
- 区域组织与受监管对象和公众间的合作方式是什么？
- 美国环境保护署作为中间人和技术/资金支持者的作用。

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Regional Organization Structure (2)

区域组织结构（2）

- Technical committees: attainment planning, modeling, mobile sources, energy
- Committees are chaired by a state.
 - Routine telephone calls
 - Periodic in-person meetings
- Committee meetings and conference calls are for state agencies only. EPA (headquarters and regional offices) are often invited to attend and to make presentations..
- 技术委员会：规划、建模、移动源、能源
- 由州主持的委员会
- 日常电话的接听
- 定期举行面对面会议
- 委员会会议和电话会议只适用于州立机构。通常邀请美国环境保护署（总部和区域办事处）参加并做陈述。

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How are Regional Organizations Funded 区域组织的融资方式

- EPA has funded many regional organizations since 1990
 - Focus on PM_{2.5} and regional haze.
- Nescaum receives a line-item Congressional appropriation (same \$ for the last 15-20 years). Formerly covered a significant share of budget, but now is only 10-15%.
- 自1990年以来，美国环境保护署已经为许多区域组织提供了资金
 - 主要是PM_{2.5}和区域霾污染
- Nescaum收到了国会的分项拨款（相当于过去15—20年的拨款额）。此前国会拨款在预算中所占的比例很大，但现在只占10%到15%。

Recommendations for China Based on Best Practices and Lessons Learned 基于最佳实践和经验的对中国的建议

Regional Questions to Evaluate 待评估的区域问题

- What key functions are needed? And, how will these change or evolve over time?
- How could China enforce/compel cooperation?
- What metrics/indicators would show progress?
- How could regional organizations help to achieve AQ requirements?
- 需要具备哪些主要功能？这些功能如何变化或发展？
- 中国如何实施/推动合作？
- 衡量进展的度量/指标有哪些？
- 区域组织在实现空气质量要求方面能发挥哪些作用？

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Key Functions (1) 主要功能（1）

- Early: assessment and evaluation
 - What sources contribute, how much, where and when
 - What controls, how effective, and how much do they cost?
- 早期：评价与评估
 - 来源有哪些？数量、地点和时间？
 - 怎么控制、有效性和成本？

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Key Functions (2)

主要功能 (2)

- Who has expertise?
 - MEP, EPB, academies, universities
- How can information be shared?
 - Technical committees
 - Who can lead?
- 谁具有专业知识?
 - 环境保护部、环境保护局、院校、大学
- 如何实现信息共享?
 - 技术委员会
 - 谁发挥领导作用?

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Developing Cooperative Solutions

制定合作解决方案

- What are the modeling results showing?
- What control measures are most effective?
- What policies/strategies could help achieve progress?
- 建模结果表明什么?
- 哪些控制措施最有效?
- 哪些政策/战略有助于实现进展?

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Developing Cooperative Solutions (2) 制定合作解决方案 (2)

- How to address differential responsibility?
- Feedback, input and suggestions to MEP and other national level agencies
- 如何确定有区别的责任?
- 环境保护部和其他国家机构的反馈、输入和建议

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How Do You Know The Air Is Getting Cleaner? 如何衡量空气质量的改善?

- Monitors and emissions inventory are only part of the story
- Metrics/indicators:
 - Air quality based
 - Air pollutant based
 - Intensity based
 - Indirect: link to emissions
 - Short, medium and long-term trends
- 监控和排放清单只是其中的一个方法
- 度量/指标:
 - 基于空气质量
 - 基于空气污染物
 - 基于排放强度
 - 间接: 与排放相关的方法
 - 短期、中期和长期趋势

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Role of Regional Planning to Help Local Air Agencies 区域规划在帮助地方空气质量管理机构方面的作用

- Develop and complete air quality modeling
- Assess pollution, contribution
- Translate technical information into policy measures
- 开发并完善空气质量模型
- 评估污染和贡献
- 将技术信息转化为政策措施

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Role of Regional Planning to Help Local Air Agencies (2) 区域规划在帮助地方空气质量管理机构方面的作用 (2)

- Train agency staff
- Develop funding mechanisms to sustain progress over time
- Coordinate policy and recommendations
- Liaison to national agencies
- 培训机构员工
- 制定融资机制，以保持进展
- 协调政策与建议
- 与国家机构的联系

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Questions and Discussion

问题和讨论

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About RAP

睿博能源智库

The Regulatory Assistance Project (RAP) is a global, non-profit team of experts that focuses on the long-term economic and environmental sustainability of the power and natural gas sectors. RAP has deep expertise in regulatory and market policies that:

睿博能源智库是一个全球性的非盈利专家组织, 专注于能源与天然气部门的长期经济与环境可持续发展。监管援助项目在监管与市场政策上具有丰富的经验:

- promote economic efficiency;
- 提高经济效率;
- protect the environment;
- 保护环境;
- ensure system reliability;
- 确保系统的可靠性;
- allocate system benefits fairly among all consumers.
- 在所有消费者中公平地分配系统收益。
- Learn more about RAP at www.raonline.org

要了解监管援助项目的更多信息, 请登录www.raonline.org。



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