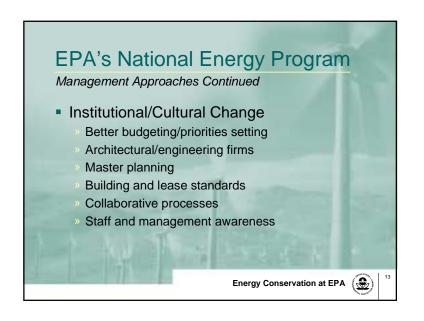
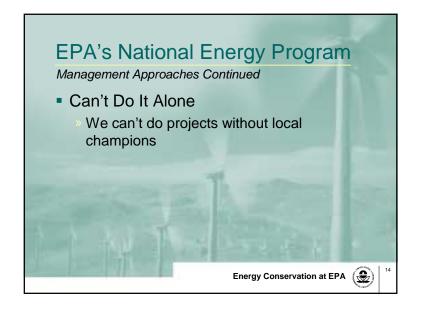
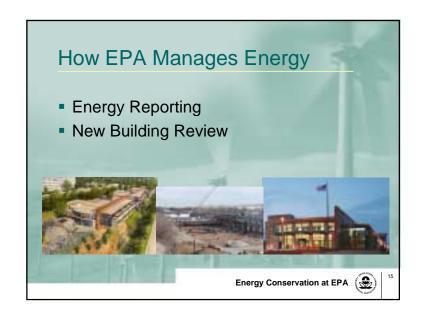
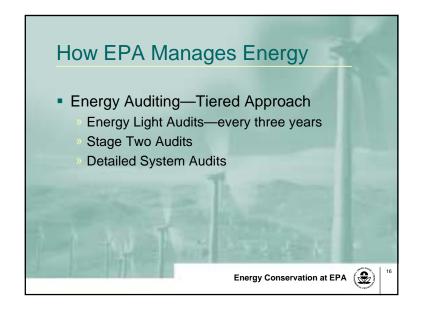


EPA's National Energy Program Management Approaches Continued No new dogs in the inventory EPA works diligently on all new major space procurements to make them energy efficient. It's never too early to think about energy efficiency Type: Build to suit labs or offices, leased spaces, new construction. Stage: master planning, procurement strategy, A/E selection, design, design review, controls review, energy modeling, construction, and commissioning all affect success.









How EPA Manages Energy

 Commissioning, Re-Commissioning, Retro-Commissioning



Most cost-effective energy investment
Fort Meade cost \$75-100K; saved
\$150K annually in energy costs
Absolutely for new buildings
Re-commissioning prevents building
performance creep
Retro-commissioning commissions
buildings that were never commissioned
(e.g. Chapel Hill and NHEERL North
Carolina)

Energy Conservation at EPA

Mechanical Engineering Design and Construction—Conventional
 **These are long term projects, typically 2 to 4 years
 **Energy Savings Performance Contracts
 *** Ann Arbor, Michigan
 *** Ada, Oklahoma

Energy Conservation at EPA

How EPA Manages Energy

- Green Power Procurement
 - Short term solution for our EO goals.
 - Right thing to do.
 - Green Power does cost a little more, generally.
 - We are not sophisticated enough yet to actively use it to stabilize our energy bills.
 - Examples: Richmond, Golden, Chelmsford, Cincinnati, Manchester, Houston, RTP (at 40%), Edison, Kansas City Science & Technology Center, Narragansett, Fort Meade.

Energy Conservation at EPA



