

**Every corporation should have a plan to reduce their carbon footprint.**

Whether you are responsible for the management a portfolio of 60 million square feet or work for a corporate space user, find out if your organization has a CERP (Carbon Emissions Reduction Plan). If it does – find out about it and get involved to move it forward. If it doesn't – why not form a committee and *create* one? It's a great step toward driving the changes that will lower the carbon footprint of the buildings we own, manage or occupy. Here are some measures that should be taken:



- Building or facility management issues that can be corrected right now:
- Economizers not operating properly
- Insufficient or overly abundant minimum outside air levels
- Problems with supply air temperature set points and reset strategies
- HVAC scheduling problems:
- Schedule HVAC equipment to better serve occupancy schedules, including zone temperature reset during unoccupied times
- Eliminate simultaneous heating and cooling

**These steps should be done first:**

- Lamp and ballast replacements
- Lighting controls, including time clocks, occupancy sensors, and day lighting
- Installation of a new DDC Energy Management System
- Conversion of the constant volume air distribution system to variable-air-volume operation with variable speed drives
- Replacement of standard and high efficiency motors with premium efficiency models
- Conversion of constant speed chilled water and hot water distribution loops to variable speed pumping

**These steps should be done as soon as possible:**

- Lighting fixture retrofits and improved lighting controls, including time clocks, occupancy sensors, and daylight controls.
- Window retrofits.
- Improved HVAC scheduling including optimized start-up algorithms.
- Building automation system upgrades from pneumatic to DDC systems.
- Supply air temperature reset on air-handling units.
- Installation of enthalpy-based economizers.

- Conversion of constant volume systems to variable air volume systems with variable speed drives.
- Installation of premium efficiency motors.
- Conversion of constant speed chilled water and hot water distribution loops to variable speed pumping.
- Elimination of simultaneous heating and cooling through improved controls.
- Miscellaneous tune-up and repairs for improved HVAC control and occupant comfort, including thermostat relocation, repairs to louvers and ductwork, and refurbishment of induction and fan-coil

If your organization does not have a carbon reductions plan – **why not?**

### **The Clinton Foundation 40 Cities program**

<http://www.c40cities.org/news/news-20070516-fact.jsp>

In spring of this past year President Bill Clinton announced the creation of a global Energy Efficiency Building Retrofit Program, a project of the Clinton Climate Initiative (CCI). This program brings together four of the world's largest energy service companies (ESCOs), five of the world's largest banks, and sixteen of the world's largest cities in a landmark program designed to reduce energy consumption in existing buildings.

16 cities are sharing \$5 billion dollars in financing at a preferred rate: Bangkok, Berlin, Chicago, Houston, Johannesburg, Karachi, London, Melbourne, Mexico City, Mumbai, New York, Rome, Sao Paulo, Seoul, Tokyo, and **Toronto**.

**ABN AMRO, CITI, DEUTSCHE BANK, JPMorgan Chase and UBS** are arranging this financing.

Each has committed to arrange \$1 billion each to finance cities and private building owners to undertake these retrofits at no net cost, doubling the global market for energy retrofit in buildings. This is huge.

The 4 largest energy efficiency companies in the world have been selected to execute this work. They are:

**Honeywell, Johnson Controls, Siemens and Trane.**

**ASHRAE** will be involved because their constituents are doing most of the work – there will be many new training programs launched.

The Clinton Foundation is creating a purchasing consortium that will pool the purchasing power of the cities to lower the prices of energy-saving products and accelerate the development and deployment of new energy-saving and greenhouse-gas-reducing technologies and products, mobilize experts to provide technical assistance to cities and private owners to develop and implement plans that will result in greater energy efficiency and lower greenhouse gas emissions.

It will also create and deploy common measurement tools and internet-based communications systems that will allow cities to establish a baseline on their greenhouse gas emissions, measure the effectiveness of the program in reducing these emissions and to share what works and does not work with each other. The focus is on: building codes and practices that make use of more effective insulation and more energy efficient windows, heating and ventilation systems, lighting, localized, cleaner electric generation systems and more intelligent design of electric grids both across the city and within office and municipal buildings

Other partners in the Clinton Climate Initiative include the U.S. Green Building Council, the Alliance to Save Energy, and the International Council for Local Environmental Initiatives. ASHRAE is also partnering with the U.S. Green Building Council and the Illuminating Engineering Society of North America.

Please update Karen Sisco on your company's sustainability initiatives: [karensisco@ksebiz.com](mailto:karensisco@ksebiz.com)

