

Keith Hansult
AVP – Sustainable Development
Corporate Real Estate

HSBC and EPA Climate Leaders

- Joined Climate Leaders in 2005
- Baseline Year 2005
- Reduction Goal Year 2010
- Reduction Goal 10%

HSBC and EPA Climate Leaders

- How did HSBC set the inventory ?
- How did HSBC set the goals ?
- What is HSBC doing to reach these goals ?

How did HSBC set the inventory ?

- 1400 + locations
- Operational Control Approach – locations where we are able to track energy usage separate from any other tenant and are billed directly from the supplier, not the landlord
- 500 + locations tracked

How did HSBC set the goals ?

- HBUS

2004 -2007	-7.0 % CO2
2008 - 2011	-5.0 % CO2

What is HSBC doing to reach these goals ?

- Mettawa
- Greece NY LEED
- LED and Lighting Retrofits
- HVAC chillers
- Videoconference
- Demand Management
- Temperature Set Points
- Building Energy Management System
- REC/Onsite Renewable

HSBC North America Headquarters

LEED Gold



550,000 Sq Ft / 3200 employees

Mettawa, Illinois

HSBC 
The world's local bank

Mettawa LEED Design & Concept

SUSTAINABLE / GREEN PROGRAM

SITE

SEEKING

TRANSPORTATION:

- * PUBLIC TRANSPORTATION ACCESS
- * BICYCLE STORAGE AND SHOWERS
- * PREFERRED PARKING FOR FUEL EFFICIENT OR HYBRID VEHICLES

STORMWATER:

- * MINIMIZE RUNOFF - MAXIMIZE QUALITY

HEAT ISLAND:

- * USE OF CONCRETE ON PARKING DECKS TO REDUCE HEAT ABSORPTION
- * USE OF WHITE REFLECTIVE ROOF TO REDUCE HEAT ABSORPTION
- * USE OF GREEN ROOF TO REDUCE HEAT ABSORPTION

LIGHT POLLUTION:

- * REDUCE LIGHT SPILL TO BOTH SKY AND NEIGHBORING PROPERTIES - LOW HEIGHT PARKING LIGHT FIXTURES



LEED
GOLD
CERTIFICATION

Mettawa LEED Design & Concept

SUSTAINABLE / GREEN PROGRAM

WATER EFFICIENCY

WATER EFFICIENT LANDING:

- * REDUCE USE OF IRRIGATION - DROUGHT TOLERANT PLANTS

WATER USE REDUCTION:

- * HARVEST RAINWATER TO FLUSH TOILETS
- * USE LOW-FLOW DUAL-FLUSH TOILET VALVES

ENERGY AND ATMOSPHERE

REFRIGERANTS:

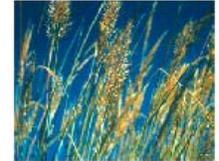
- * USE NON-CFC BASED REFRIGERANTS

ENERGY EFFICIENCY:

- * REDUCE ENERGY CONSUMPTION BY:
 - * WELL POSITIONED BUILDING / SOLAR ORIENTATION
 - * EFFECTIVE BUILDING ENVELOPE TO REDUCE HEAT GAIN/LOSS
 - * LIGHT HARVESTING BLINDS TO REDUCE USE OF LIGHTS
 - * ENHANCED COMMISSIONING TO ENSURE EFFECTIVENESS OF ENHANCED SYSTEMS
 - * MEASUREMENT AND VERIFICATION TO ENSURE EFFECTIVENESS ON AN ONGOING BASIS

GREEN POWER:

- * PURCHASE GREEN POWER CERTIFICATES



Mettawa LEED Design & Concept

SUSTAINABLE / GREEN PROGRAM

MATERIALS AND RESOURCES

CONSTRUCTION WASTE MANAGEMENT:

- * RECYCLE WASTE FROM CONSTRUCTION

RECYCLED CONTENT:

- * USE OF MATERIALS WITH RECYCLED CONTENT

REGIONAL MATERIALS:

- * USE OF LOCALLY SOURCED / FABRICATED MATERIALS

RAPIDLY RENEWABLE MATERIALS:

- * USE OF MATERIALS WITHIN 10 YEAR CYCLE

CERTIFIED WOOD:

- USE OF CERTIFIED WOOD



LEED
GOLD
CERTIFICATION



Mettawa LEED Design & Concept

SUSTAINABLE / GREEN PROGRAM

INDOOR ENVIRONMENT

AIR QUALITY:

- * NO SMOKING
- * OUTDOOR AIR DELIVERY MONITORING - CO2 MONITORING
- * INCREASED VENTILATION - MORE FRESH AIR
- * CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT
 - * DURING CONSTRUCTION
 - * PRE-OCCUPANCY

LOW EMITTING MATERIALS

- * ADHESIVES, PAINT, CARPET, WOOD

INDOOR CHEMICAL AND POLLUTANT SOURCE CONTROL:

- * GREEN CLEANING
- * WALK-OFF MATTS

CONTROLLABILITY OF SYSTEMS:

- * LIGHTING - DAYLIGHT SENSORS
- * THERMAL COMFORT - INDIVIDUAL CONTROL OF AIR AT FLOOR

THERMAL COMFORT DESIGN CONCEPTS:

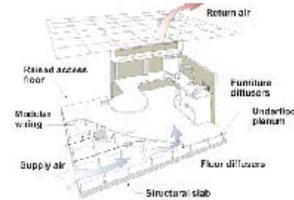
- * DAYLIGHTING - INCREASE NATURAL LIGHT INTO INTERIOR SPACES
- * VIEWS - PROVIDE VIEWS TO EXTERIOR FROM MAJORITY OF INTERIOR SPACES

EDUCATION:

- * PROVIDE A SUSTAINABLE EDUCATION KIOSK AND DISPLAY EMPLOYEE AWARENESS PROGRAM

CURRENT LEED SCORE

- * GOLD - GOLD CERTIFICATION TARGETED



DS-AT "Alta" Free Standing Kiosk



November 10, 2007

HSBC Carbon Neutral Branch LEED Gold-Certified



Greece, NY

HSBC 
The world's local bank

HSBC Branch Standard LED Signage



Oakville, Ontario

HSBC 
The world's local bank

Commitment to Renewable Energy



2005 – 74,000 MWH

2007 – 134,000 MWH

2006 – 134,000 MWH

2008 – 300,000 MWH

Corporate Inventory - U.S.	Base Year	Year 2	Year 3
Year	2005	2006	2007
EMISSIONS - Annual CO₂-eq. (metric tons)			
Direct Emissions			
Stationary Combustion Sources	10,359	9,217	9,657
Mobile Combustion Sources	4,057	2,429	2,412
Refrigeration / AC Equip. Use	1,126	1,139	1,129
Process / Fugitive (specify source):			
	15,542	12,785	13,198
Indirect Emissions			
Purchased and Used Electricity	115,524	115,778	120,355
Purchased and Used Steam	1,973	1,633	1,900
Purchased and Used Hot Water	0	0	0
Purchased and Used Chilled Water	0	0	0
Total Indirect Emissions	117,497	117,411	122,255
Business travel - aviation	43,370	43,318	37,919
Business travel - ground	13,298	14,208	11,899

	56,668	57,526	49,818
<i>Direct + Indirect + Optional Emissions</i>			
Total U.S. Emissions	189,707	187,722	185,271

2005

2006

2007

	2005	2006	% Change	2007	% Change
Total U.S. Emissions	189,707	187,722	-1.0%	185,271	-2.3%
Total Non-U.S. Emissions	--	--	--	--	--
Total Absolute Emissions	189,707	187,722	-1.0%	185,271	-2.3%