BUILDING BETTER. TOGETHER.

CE

INTEGRATED HVAC SOLUTIONS FROM CLIMATE CONTROL GROUP. OPTIMIZE EFFICIENCY, RELIABILITY, AND DESIGN FLEXIBILITY.

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YOUR PRESENTER



ARAN WINN

Western Commercial Sales Manager

INTEGRATED HVAC SOLUTIONS TO OPTIMIZE EFFICIENCY, RELIABILITY, AND DESIGN FLEXIBILITY.

CLIMA COOL®

Modular Chiller/Heater Systems



Water-Source Heat Pump Solutions



Hydronic Fan Coil Solutions



Custom Air Handlers



International Environmental

OClimateCraft

CLIMA COOL

CLIMATEMASTER





TIMES ARE CHANGING

New challenges are changing how we apply HVAC systems.

TRANSITIONING TO LOW-GWP ALTERNATIVES

in Residential and Commercial Air Conditioning and Chillers

SEPA United States Environmental Protection Agency

This fact warming hydroflue air condi powerfu thousane (CO₂); ho available Globally,

refrigera

New York's Winter Grid Reliability Challenges Changing conditions impacting supply and demand

NYISO forecasting shows a number of emerging reliability challenges as electrification shifts the grid from summer to winter-peaking over the next decade. We are focused on managing these challenges, using planning studies to identify emerging needs, market incentives to attract investment in new resources, and enhancing operating procedures to mitigate risks.

Impact of electrification on statewide winter peak demand

Overview

In 2024, lawmakers in 30 states introduced 130 bills and budget items promoting building decarbonization, with 27% of these successfully passing

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WHAT ARE WE GOING TO DO?

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WATER THE PAST, PRESENT, AND FURE OF HVAC

Hydronic based HVAC systems meet the challenges facing the HVAC industry.

- ✓ Easily Applicable✓ Safe and Reliable
- ✓Energy Efficient
- ✓ Cost Effective to Install and Maintain

Refrigerant	ODP	GWP	LFL	RCL
Water (R-718)	0	0		
Ammonia (R-717)	0	0	116	0.22
Carbon Dioxide (R-744)	0	1	-	54
Propane (R-290)	0	1	38	9.5
R-1234ze	0	7	303	76
R-454b	0	466	352	49
R-32	0	675	306	77
R-410a	0	2,088	-	420







ILEC Environmental CLIMA COOL WATER **OClimateCraft** CLIMATEMASTER THE PAST, PRESENT, AND OF HVAC **Hydronic HVAC Systems** meet the challenges facing the HVAC industry today.





Custom Air Handlers

- **Customized Design**: Can meet specific project requirements for size, footprint, and configuration with high fan static capability. Available of a wide variety of design options and construction materials and coatings.
- Improved Air Qualityand Comfort: More options for heating and cooling coils, humidity control, filtration, and energy recovery than a typical packed or terminal unit.
- Ease of Installation: Can ship as a single piece, in sections, or knockdown on pallets for ease of installation.

imateCraft[®]





ClimateCraft

- Capacities typically 4,000 to 200,000+CFMairflow.
- Access[™] units designed in 3D computer model and ship palletized for field assembly. Pallet can fit through door as small as 3' wide. Detailed assembly instructions included and factory supervision available.
- Hospital Grade Construction: HEPA filtration, stainless steel liner, 2, 3, & 4-inch foam panel walls, recessed floors for drainage / wipe-wash cleaning. OSHPD/IBC special seismic certification options.
- Option for Marine-Grade Aluminum, Stainless Steel, or Galvanized Steel construction.
- Factory leak testing for quality at class-5 at 8 in.wg pressure.

ClimateCraft





Hydronic Fan Coils

- Flexibility in Design: Terminal units available in numerous configurations for installation in walls or ceilings to minimize bulky ductwork. Easily integrate into building designs and layouts.
- Quiet Operation: Designed to produce less noise than traditional forced air systems and feature smaller fan motors.
- High-End Comfort: Precise temperature control in individual rooms or zones within a building available by regulating water flow to each fan coil unit.
- No Refrigerant in Occupied Spaces: No need for ASHRAE15 refrigerant charge calculation or refrigerant monitors in occupied spaces.
- Easy to Retrofit or Replace: Units can be replaced decades after installation without expensive updates to water piping infrastructure.





International Enviromental Corp.

- 75 years of quality HVAC equipment manufacturing in the USA.
- AWARD WINNING! EnviroKIT[®] Retrofit Solution: Engineered and packaged to meet the technical specifications of your existing configurations by replacing aging and failing components as an alternative to full unit replacement.
- SureFlow[®] system option with integrated low watt circulator, delivers the water flow through the coil and back to a primary loop reducing pumping energy and save installation and materials cost.
- NEW! Compact AHU to supply up to 12,000 CFM with modular design for ease of installation in both new and retrofit applications. Up to 6" of Total static pressure.
- NEW! Vertical Stack with integrated ERV: 80% Sensible Heat Recovery Efficiency at 55 CFM .



WaterSourceHeatPumps

- All-Season Climate Control: WSHPs are not affected by ambient air conditions and provide year-round comfort.
- Independent Zone Control, Service, and Energy Metering: Individual zones can be controlled, monitored, or serviced independent from the larger building system.
- Small Refrigerant Charge Packaged System: WSHPs use less refrigerant than split systems reducing the need for refrigerant monitors or emergency ventilation in occupied spaces.
- Waterside Heat Recovery: WSHPs can recover waste heat from zone requiring cooling and deliver it to zones that need heating. This lowers heating energy consumption.
- Geo-Source Energy Efficiency: Can be connected to ground source loop for higher efficiencies and carbon free heating capability.





ClimateMaster

- The Largest Water Source Heat Pump manufacturer in the USA and introduced the first R454BWater Source Heat Pump in the industry.
- Wide Variety: 6,000 uUto 300,000 BTU. Ducted, Console, Vertical Stack, Packaged, Rooftop and Water-to-Water
- FactoryRefrigerantLeakDetectors:As an option but not usually required for 48 MBTUmodels and smaller.
- vFlow[®]Internal Variable Water Flow Control: Saves Pumping Energy and Installed Cost.
- Compatible with traditional Tower/Boiler Loop, Ground-Source Loop, or Hybrid Water loop.





Heat Pump/Heat-RecoveryChillers

- Dual Functionality: Unlike traditional chillers, they can both cool and heat a building, providing flexibility based on seasonal needs.
- Beneficial Electrification: As theyprimarily use electricity, heat pump chillers can contribute to a reduced carbon footprint when powered by renewable energy sources.
- Heat RecoveryCapability: Theycan significantlyreduce energy consumption bytransferring heat instead of generating it from scratch, leading to lower operating costs.
- Flexibility in application: Compact footprint can be adapted to different building types and climate conditions to serve:
 - ✓ Custom Air Handlers
 - ✓Water Fan Coils
 - ✓ WaterSource Heat Pump





ClimaCool

- Air-Source and Water-Source. Heat Pump, Cooling
 Only, and Heat-Recovery models.
- Controls Support up to 12 modules in a single bank.
- 6 & 8-inch header allow up to 600 tons per bank.
- Hot Water Heating: 70 140 deg F
- Chilled Water Cooling: 15-65 deg F
- Ambient Operation: 0 120 deg F
- Factory Skidding and Single Point Power options.



CCG MEETS THE CHALLENGES FACING THE HVAC INDUSTRY TODAY.



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