

# HYBRID ELECTRIC HEATING SYSTEMS



80% REDUCTION OF SYSTEM CO<sub>2</sub> EMISSION  
WITHOUT INSTALLED LARGE AMPERAGES

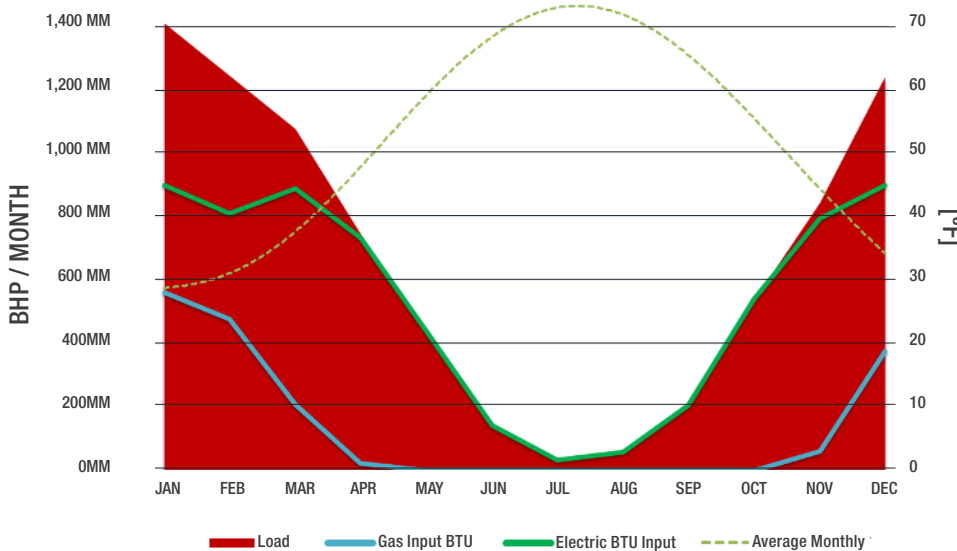
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## Benefits of Hybrid Electric Systems include:

- ▶ Balanced percentage of total installed capacity between gas fired and electric boilers
- ▶ Reduced CO<sub>2</sub> emissions and fossil fuel usage
- ▶ Minimized electrical installation requirements and associated amperages
- ▶ Automatic fuel selection based on heating load and utility rates



Boston, Massachusetts – Design Day Load: 2,850,000 BTU/HR



### THEORETICAL CASE:

LOCATION:	Boston, MA	
DESIGN DAY LOAD:	2,850,000Btu/hr	
BOILERS INSTALLED:	(2) EDR+3000 (1) FB-W 350kW	
PERCENTAGE OF INSTALLED CAPACITY:	Natural Gas:	Electric:
	83.5%	16.6%

### BY OPERATING THE ELECTRIC BOILER AS LEAD:

ANNUAL PERCENTAGE OF LOAD CARRIED BY ELECTRIC BOILER:	79%
TONS OF CO <sub>2</sub> SAVED:	402 tons
OVERALL SYSTEM EFFICIENCY:	97.9%