



DISTRICT HEATING



The most modern incinerator in the world—the 1200 TPD Von Roll built for the City of Montreal . . . page 8.

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News From Europe

London, England

Sir Donald Gibson has been made President of the District Heating Association. He succeeds Mr. D. J. Ezra, the former president, who is also the Deputy Chairman of the National Coal Board.

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The Department of the Environment has awarded the Heating and Ventilating Research Association two contracts, amounting to over 73,000 Pounds, to make a survey of district heating in the United Kingdom.

The smaller of the two contracts, named "Datasearch," is expected to cost approximately 4,332 Pounds. It will be a detailed analysis of the results of a questionnaire circulated to and completed by local authorities. The questionnaire's aim is to find out what present district heating practices are in local government housing.

Called "Feedback," the larger contract (estimated at 68,900 Pounds) is for three district heating installations—to survey the boiler output, losses from mains, heat used by residential and other customers, and for the estimation of thermal conditions maintained by the residential users.

The surveys will span two entire heating seasons at each location, the work continuing until March 1974.

The principal aim of the project is to compare the actual operation of representative locations (chosen by using the results of Datasearch) with the conventional design assumptions, to supply feedback data to designers. If the project results in reduction of boiler capacity by ten percent, it is estimated that the expense of the survey will have been justified when about 4,000 residences are constructed, using the newly-acquired information.

Stockholm, Sweden

The pavement in downtown Stockholm is kept free of snow and ice by using waste heat from the City's district heating system. The cost for keeping the pavement snow-free is almost negligible because only the return hot water from the district heating system is used. So far, the hot water, containing ethylene glycol, has been circulated in copper pipes cast into concrete, but recently a cheaper method has been adopted using plastic pipes in which ethylene glycol is not necessary.

Munich, Germany

In Munich, a city of about 1,300,000, over 75 miles of district heating mains are supplied by five combined heat and electricity generating plants and several heating plants. One development is a new community of 100,000 people that is being supplied with hot water district heating from a distance of five miles through a pair of two-ft diameter pipes. At two of the combined electricity generating and heating plants, about 18 tons of garbage per hour are burned to supply 20 per cent of the heat requirements.

Hamburg, Germany

The district heating system in Hamburg, the largest in Europe, has an installed capacity of about four billion Btu per hour delivered through 150 miles of steam and hot water piping in the central area of the city.

Copenhagen, Denmark

Copenhagen has a district heating system just slightly less extensive than that of Hamburg, connecting some 2,000 buildings and plants through 120 miles of heating mains. Both Copenhagen and Hamburg use garbage as supplementary heat sources.

STATISTICAL STEW

Is there really a population explosion? Not only are people growing in numbers, but they are growing in size. In 1900, only four men out of 100 topped six feet. Today, 20 out of 100 are six feet or taller. The number of women topping five feet seven inches has increased during this same time-span from four per 100 to 18 per 100. In the past seven years the weight of the average American male has gone up seven pounds and that of the average female, 11 pounds.

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The policeman's lot is not a happy one these days. He's overworked, underpaid, misunderstood. The American public, crying for law and order, spends about as much on law enforcement as it does on dogs, cats and other household pets. Nearly 75% of all U.S. cities over 100,000 have less than 50 policemen.



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