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Wastewater heat utilization

2021



The technology:

Due to increasing warm weather conditions and humidity, especially in areas where temperatures are particularly warm most times of the year, the cooling of buildings has become a necessity, with larger cooling capacity required.

Wastewater heat utilization offers a cost-effective solution which uses wastewater — the national sewage network — as a resource to generate energy. With the implementation, the cooling system of buildings (apartment buildings, municipal buildings, office buildings, shopping malls, hospitals, schools etc.) can be made highly energy efficient.

The patented technology generates power from wastewater heat. Offering a solution that makes building operations cheaper in terms of energy costs.

This technology represents an environmentally-friendly and cost-effective solution for cooling buildings.



The benefits:

- Saves energy and cost.
- It is a closed system therefore it does not produce any smell into the environment or release any hazardous waste on the site.
- It can be used both in winter and summer.
- The heat exchanger is installed outside the sewage line in a concrete structure, where it can be managed and maintained under constant technical conditions; various technology elements can be installed either above or below the ground.
- It is an ideal solution, especially in cities with over 200,000 residents.
- Since the technology can be installed below the ground, it can be used in densely populated areas, not only on the outskirts (as it is the case with wind, solar power plants).
- It can be implemented within six months.
- The technology is supported by an established maintenance methodology and cycle, including a control computer sending alerts on the actions to be taken (as part of remote management).
- The operation is managed by a software and can be managed remotely from a site at any distance from the facility.
- The technology can be integrated into an existing heating-cooling facility or can be established as part of a greenfield project.
- It has a useful lifecycle of at least 15 years, with components to be renewed or replaced over time.





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