

BENEFITS OF SNOWMELT

Convenience. Safety. Cost Savings.
Economic Growth.

Snowmelt brings convenience and so much more to Downtown Holland.

- No snow removal
- No snow banks
- Extended pavement life
- Extended brick paver life
- No salt, sand or de-icer needed
- Reduced slip and falls during the winter months
- Increased downtown winter activities
- Reduced wear inside retail stores

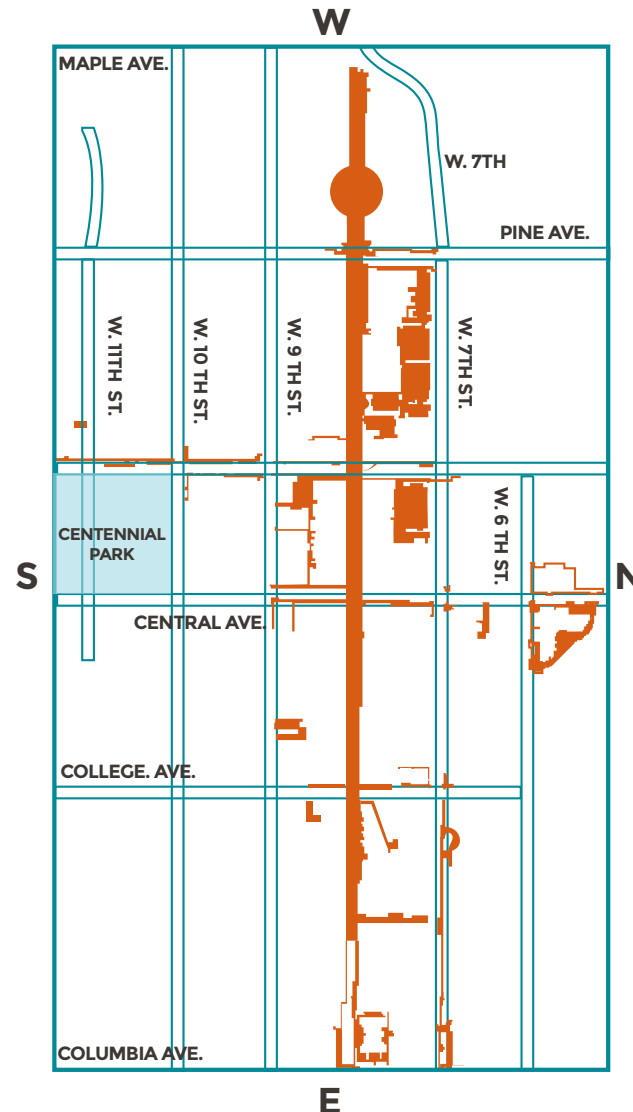
"People aren't afraid to come out in the slush because there is no slush. It is definitely worth it, because people continue to shop here." - **Owner of The Outpost**



"People enjoy the snowmelt for jogging, walking, running and what's fun for us is that they'll stop back later after they've spotted something in the window!" - **Owner of Moynihan Gallery and Framing.**

ENJOY SNOWMELT

Run, walk or shop downtown on snow and slush-free sidewalks.



For more information about snowmelt, contact Holland BPW at 616.355.1500 or visit hollandbpw.com.



City of Holland
SNOWMELT SYSTEM



Holland
MICHIGAN



"The largest municipal snowmelt system in the United States."

cityofholland.com
hollandbpw.com



9
MILES
Transmission &
Distribution

147
MILES
OF TUBES
BENEATH THE
CITY

450,000
SQ. FT.
HEATED STREETS
& SIDEWALKS

HISTORY OF THE SNOWMELT SYSTEM

Revitalization to Downtown Holland.



The late 80s and early 90s brought a revitalization to the City of Holland. Downtown Holland business owners rallied together with the City of Holland and Holland Board of Public Works to develop a plan that focused on parking, pedestrian friendly streets and new utilities.

Holland native and Prince Corporation founder, Edgar D. Prince, approached the city about an idea he had discovered in Europe - a snowmelt system for the streets and sidewalks of downtown Holland. The idea was bold, as it had been only used in smaller applications with boilers for building entrances.

Throughout the years, the snowmelt footprint and capacity has been expanded to meet growing city needs.

HOW SNOWMELT WORKS

Snow-free streets and sidewalks all year long.

Holland's municipal power plant heats downtown's sidewalks and streets by circulating warm water through miles of plastic tubing underneath the streets and sidewalks. The system is designed to melt 1" of snow per hour at 20 degrees Fahrenheit and 10 MPH winds.

- **Water from Lake Macatawa is pumped through the circulating cooling water system at James De Young Generating Station.**
- **The water used to condense steam from the turbine heats up to 95 degrees Fahrenheit and is pumped through nearly 147 miles of tubes beneath the city streets, walkways and parking lots.**



THE FUTURE OF SNOWMELT

Expansion of snowmelt capacity.

The new Holland Energy Park (early 2017) can expand to support a snowmelt system up to five times its current size. Extensions for the system are planned for the coming year. The system could also provide hot water for district heating.



CONSTRUCTION AND HARDWARE

- The transmission and distribution system consists of polyethylene supply and return piping.
- The warm water passes through transmission and distribution pipes and valves, to a system of 1" tubes, spaced every 4" underneath street and sidewalks.
- The 1" tubing is set in a specially designed road base of stone and gravel, covered with a porous asphalt and brick pavers.