RESILIENT DESIGN FOR WATER INFRASTRUCTURE

DGH ENGINEERING LTD.

CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL

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STRUCTURAL

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This month, we here at DGH Engineering are going to look forward to the summer months and consider some simple ways building owners and communities can beat the heat while also conserving water. Unfortunately, risks based around water supply are often difficult to assess in Manitoba, as we are prone to both flooding and drought. A major issue with this combination of natural disasters is that if soil becomes too dry for long periods of time due to drought, it undergoes changes that negatively impact its ability to absorb water and the land becomes more prone to flooding.

These concerns are especially important during years when we experience both droughts and heat waves, as we did last summer. An increase in heat creates increased demand on an already low water supply. DGH has experience engineering solutions to help people keep cool without placing undue pressure on water supply.

OUR EXPERIENCE

DGH has experience in designing unique and efficient solutions for water delivery for a number of projects, including recreational facilities.

With the increasing frequency of heat events, communities are finding novel ways for people to keep cool. DGH has partnered with a number of groups and provided its engineering services for the realization of splash pad projects across Manitoba.

These projects have the potential to help communities cope with heat waves and other extreme heat events during prairie summers. Splash pads are quickly becoming a sustainable alternative to wading pools because they use less water than traditional municipal wading pools.

Did You Know?

Splash pads generally use less water than traditional municipal wading pools

When the reduction of water use is necessary for these projects, DGH has implemented recirculation systems to reduce the overall water consumption of some splash pad projects.

In other projects, DGH has recommended the capturing of grey water for use in municipal landscape watering as way to mitigate municipal water consumption.

Next week we will be discussing tangible ways we can help building owners reduce water consumption in their buildings. Don't forget to click the like button and follow us on LinkedIn and Instagram for more updates on how DGH is working to create climate resiliency.

DGH

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