



stem

## Case Study: StackTeck

# Minimizing Energy Costs from Global Adjustment with Stem's Smart Energy Storage



Headquartered in Brampton, Ontario, Canada, StackTeck is a global provider of sophisticated integrated plastic tooling solutions for the injection molding industry. Due to Ontario's Global Adjustment (GA) and the province's five highest annual peak demand hours, StackTeck has faced unpredictable, ever-rising energy costs, and a limited ability to control them. With energy storage, businesses can drastically cut costs by reducing demand in those hours, maintain seamless operations during peak periods, and maximize savings.

In 2019, StackTeck started evaluating energy storage options at its primary industrial manufacturing facility. Today, Stem's Athena® platform is helping StackTeck mitigate coincident peaks and navigate GA to ensure more predictable monthly energy bills with a nearly 1 MW / 2 MWh energy storage system.

“After speaking with numerous storage providers, Stem stood out to us as the most experienced and reliable partner to fulfill our energy needs. Their expertise navigating the unpredictable costs from Ontario's Global Adjustment enabled us to address our growing utility bills by optimizing our energy loads and having more visibility into peak events. Energy storage has and will continue to help StackTeck reduce its net energy costs while decreasing its draw from the grid at those times when available capacity is lowest.”

### Nelson Antunes

CPA, CMA | Chief Financial Officer, StackTeck

#### Location

Brampton, Ontario, Canada

#### Customer Type

Industrial Manufacturer

#### Facility Type

Industrial Manufacturing Facility

#### Solutions

Energy Storage, Global Adjustment Support, Utility Bill Optimization

#### Energy Storage System Size

1 MW / 2 MWh

#### Stem Operational Date

October 2021



#### Challenge

Facing unpredictable, ever-rising energy costs and a limited ability to control them, StackTeck sought an energy solution to curb its monthly costs with low risk and no upfront costs. Like many industrials in Canada's leading manufacturing province of Ontario, StackTeck was spending roughly 60% of its facility's electric bill on charges from GA, Ontario's mechanism for recovering costs associated with meeting peak electricity demand.



#### Solution

When StackTeck first considered an energy storage provider in 2019, Stem's expertise in utility bill optimization and coincident peak mitigation stood out as a viable energy solution.

Stem's Athena energy optimization platform predicts GA coincident peaks and autonomously directs the energy storage system to discharge the battery in order to reduce utility-read load, resulting in dramatic savings for StackTeck.



#### Results

Stem's automated solution drops StackTeck's energy load during GA which results in significantly reduced monthly electric bills. Our industry-leading Athena software leverages over 40 different input data streams to make the smartest decisions about Ontario peak prediction. This enables StackTeck to provide a valuable service back to Ontario's grid by relieving congestion and reducing the province's need for carbon-heavy peak generation.

To learn more about Stem's solutions, contact [stem.com/contact-us](https://stem.com/contact-us).