



## SCREAMING POWER INNOVATION HIGHLIGHT



### COMPANY OVERVIEW

Working within the energy and sustainability marketplace, Screaming Power (SP) provides a mobile-first cloud engagement solution for utilities, energy retailers, and commercial clients. The solution manages a broad range of energy information (e.g., meter, usage, billing, and GHG) white-labelled for the customer's needs. The big data, machine-learning solution manages and tracks the user's energy outputs to find areas of improvement, reduce costs, and decreases the amount of wasted energy/GHG emissions.

**LOCATION:** PICTON, ON

### TECHNOLOGY



**Data Centre and Cloud**



Greg Doucette, CFO  
[gdoucette@screamingpower.com](mailto:gdoucette@screamingpower.com)  
[screamingpower.ca](http://screamingpower.ca)



Rick Penwarden, Sr. Manager, Marketing  
[rick.penwarden@cengn.ca](mailto:rick.penwarden@cengn.ca)  
[cengn.ca/projects](http://cengn.ca/projects)

### ENERGY CONSUMPTION AND DEMAND ON THE RISE

In 2019, global primary energy consumption grew by 1.3% leaving us at an all-time high. As the demand for energy continues to rise and knowing that our environment provides a finite number of resources, this ever-increasing demand is becoming a problem everyone will have to deal with. So, how can we use the information we have to be more efficient with our energy consumption? First, we need to know exactly how much we are consuming and trending with our energy and GHG emissions, then we need to innovate and conserve while adjusting for weather variations.

### USING DYNAMIC ANALYSIS TO REDUCE ENERGY CONSUMPTION

Screaming Power has created 2 solutions: Scream Utility and Scream Enterprise that use their Energy Data Platform (EDP). Scream Utility allows utilities to give their customers (residential/commercial) forecasting capability and insight into energy use, as well as a host of related value-added services. Scream Enterprise allows organizations that have multiple buildings to manage their building energy footprint, including GHG management and energy analysis/reporting. Both products work on the cloud through EDP and provide mobile/web-based dashboards showing the building footprint, giving users knowledge to better manage their energy usage.

### VALIDATING THE SCALING CAPACITIES OF THE SCREAM ENERGY DATA PLATFORM

On the CENG Testbed, Screaming Power investigated and validated the scaling capabilities of the Scream Energy Data Platform (EDP) with a meter sampling load of 400,000 users sampling every 5 minutes. EDP also promptly handled 500 simultaneous requests simulating users of the associated mobile app. In addition, Screaming Power gained valuable insights into improving EDP's data processing to reach its performance goals. This will eventually enable performant data processing at a scale far beyond the current daily load.

**"We gained valuable insights from our CENG project that's already enabled us to scale our energy data processing far beyond our previous daily loads."**

**Greg Doucette**  
CFO, Screaming Power

