



# Corporate Sustainability Report – 2020

**ENERGY USE.**

**Background.** Stony Creek Quarry Corporation (SCQC) is committed to using as little energy as possible in its dimension stone operations. For purposes of this report, dimension stone is defined as all products sold other than crushed aggregate. These products include:

- Dimension block
- Armour stone for seawalls
- Split Veneer for masonry walls
- Boulders and character stones

Stony Creek Quarry has set a goal of reducing its energy consumption per ton of stone produced by 5%/year over a period of the next 5 years. This will be accomplished primarily by securing on-grade access to the Active Quarry. Off-road diesel consumption, our primary energy usage, is expected to decrease dramatically once this is accomplished. Also, we anticipate a future reduction in overburden removal from the high levels existing in 2016-20. We estimate that approximately 50% of our diesel consumption is related to these activities.

**Big rise in 2020.** Our energy usage rose to 248 kilowatt hours (kWhrs) per ton of stone produced in 2020 from 163 kWhrs in 2019. (kWhrs are a good way to common-size all kinds of energy use).

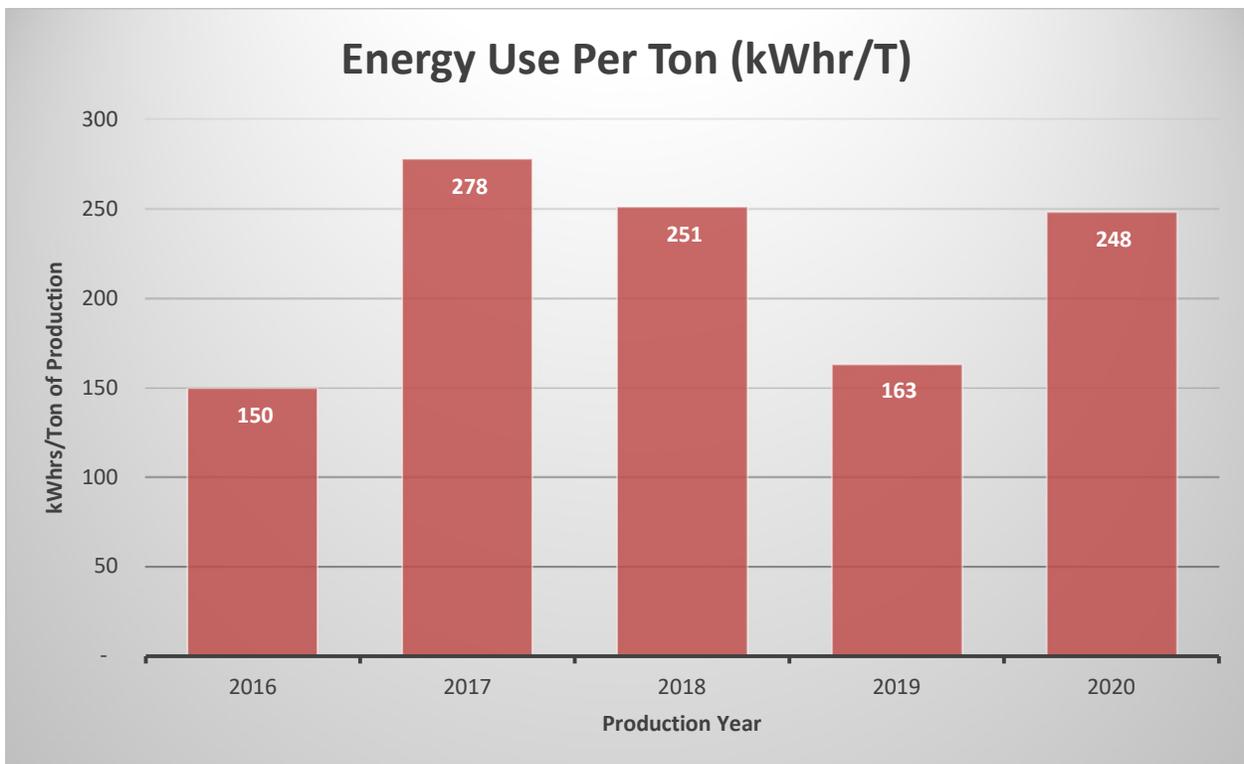


Figure 1. Energy Use Per Ton of Production.

This rise (35%!) is primarily due to an increase in energy usage while we had a big drop in armor stone sales which dramatically reduced our total tonnage produced. See Figure 2 below.

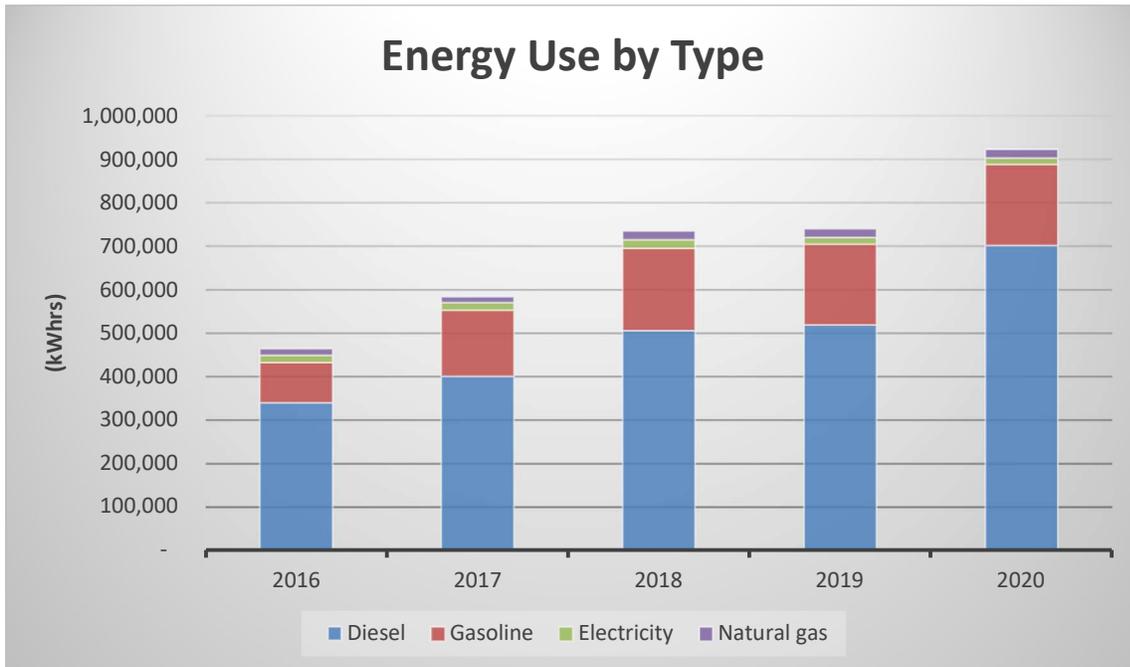


Figure 2. Energy Use by Type.

Diesel use is determined heavily by the level of overburden removal (needed to expose solid stone in lower ledges). Removing overburden uses about 50% of all diesel – we expect to greatly reduce diesel use as overburden removal slows in the coming years and when we can open a lower level access to the Active Quarry. The tonnage of hard stone produced decreased almost 17% over 2019, from about 4,400 tons to only 3,600 tons with most of the decrease coming from the sales of armour stone for waterfront protection projects. Even with healthy doubling of dimension stone block, overall volume dropped.

**EXCESS PROCESS MATERIALS and SOLID WASTE.**

We have a “zero-waste” policy for granite; 100% of our stone is valuable and is sold for useful products. While dimensional block production is the goal of all our planning and operations, we process all the rest of the granite into other products such as crushed stone of various specifications, wall stone, and landscaping materials.

We generate nominal quantities of solid waste and recyclable consumer products. All waste oils and hazardous materials are professionally disposed of through licensed third parties.



### **WATER.**

All the water used in our operations is rainwater that we collect on-site. After use for washing, cooling or crushing stone, we recover over 95% of this water for re-use.

### **SITE MANAGEMENT.**

We are proud of our location within the Stony Creek Quarry Preserve, a 350 acre parcel of natural open space which is owned by the Town of Branford. This land is contiguous to another 1,000 acres owned by the Branford Land Trust and Guilford Land Conservation Trust and forms a natural corridor for wildlife with rare access from Long Island Sound into wooded uplands.

Within this larger landscape, we take care to efficiently extract stone without disturbing non-quarried terrain.

### **SAFETY.**

Our excellent safety record has earned us numerous safety awards over the last ten years from MSHA, the Mine Safety and Health Administration.

### **EDUCATION.**

In 2020, COVID-19 closed most public tours of the quarry (except for a MASKED outdoor tour for a delegation of occupational safety administrators from the Yale School of Public Health!). 2019 was a more normal year - we proudly hosted over 600 students, architects, builders, politicians (including Congresswoman Rosa DeLauro and Senator Richard Blumenthal), professors and other community members. Our visitors included delegations from the U.S. National Park Service, the New York Parks Department, CT chapter of the American Institute of Architects and Yale and Wesleyan Universities.

We are particularly interested in reaching out to the children of Branford and Guilford, CT in order that they can understand the historical connection between the Quarry and these two shoreline towns. Our goal is that all third graders from these towns come to the Quarry for a field trip. We are determined on to evolve in creative ways and to be stewards of both the land on which the Quarry operates and the history of this dynamic operation.