

Our team currently consist of 250 N Main St and Muddy River Distillery owned by Caroline and Robbie Delaney along with RJT Servicess LLC. We plan to revitalize an abandoned historical mill with energy efficient upgrades that will impact the community. Some of the overall objective and goal is to revise the current process to recycle water used in the process to make mash when heated to use in radiant floor heating in addition to upgrading the building with energy efficient appliances and materials. The mill launched the first energy to the area and is appropriate to launch the next generation of energy being renewable energy to the community while being functional and supporting the community. We also plan to use the location to showcase state of the art energy efficient building upgrades standing as model for other projects as we expand. Examples of ideas we will look to implement on each project include but are not limited to:

- Recycling water used in the distillery process for radiant floor heating, producing mash, and several other process the heated water can be safely recycled for
- Installation of Energy efficient windows, doors, insulation and other buildings materials that will reduce overall energy cost
- 1-We plan to use a VRF system vs conventional heat pumps. This will greatly increase efficiency and reduce the impact of exposed ductwork in a historic space.
2-Radiant floor heat will be installed to recycle the heat captured while cooling our equipment. This will reduce water consumption and reduce our heat demand during winter months.
3-Preheat system. We have designed and built a custom heat recapture system to transfer the heat from a finished batch to a new batch before and after distillation. This should reduce distillation energy consumption by approximately 30%.
- All kitchen appliances are upgraded to higher voltage for greater efficiency
- Electric vehicle chargers are not planned unless you advise that it is worth it.
- We are planning to prewire our electrical system for solar
- We are replacing our panels with high voltage 480 volt 3 phase panels
- All new HVAC equipment will be connected to smart thermostats.
- Energy storage.
Our mash preheat system has an insulated stainless storage tank that will be used to store and save the heat from our spent mash. We will need to route and insulate a couple hundred feet of piping for this system.

