



## ABOUT US

We are a team of technically excellent engineers with multi-disciplinary experience in the design and construction of commercial, institutional, and industrial facilities. We excel in challenging, first of a kind projects that require unique solutions.

## SERVICES

### MECHANICAL ENGINEERING

We are comfortable in any process, industrial, or commercial facility because of our diverse experience in markets including Institutional, Central Plant, Semiconductor, Pharm-bio, Food and Beverage, Mineral Processing, Dairy, and Industrial Manufacturing. We do not limit our work to specific areas of expertise. Rather, this broad experience base provides us with the comfort level to perform in any environment.

### BUILDING INFORMATION MODELLING

At ENGVT, we don't have a CAD department. We are all engineers who maintain leading edge CAD skills and spend extensive time in the field working closely with the trades. This team structure bridges the gap between the CAD technician, the design engineer and the pipe fitter in the field. Without these three skillsets under one umbrella, even the most advanced CAD systems available will not ensure acceptable results. Building Information Modeling (BIM) in particular requires the combination of engineering skill to size and select equipment, 3D modeling skills to represent the details accurately, and the knowledge of construction means and methods required to assemble it all into a collision free, buildable, intelligent model. ENGVT has a combination of these skills that is unique in the marketplace.

### COMMISSIONING

The most energy efficient products and equipment available cannot ensure an energy efficient building. DDC control systems are now almost mandatory to integrate this equipment to operate a building efficiently. The complexity of building control systems and modes of operation requires rigorous testing to ensure proper function. ENGVT has a track record of success in controls design that allows us to prepare extremely intelligent, thorough functional tests that verify the construction team has captured the "design intent". A well-executed commissioning process helps ensure that the engineer's projections are achieved and that the Owner will have an energy efficient, maintainable, functional building.

## THE ENGVT PROCESS

1. Develop a robust Project Plan built upon budget, schedule, and performance
2. Engage stakeholders developing the Basis of Design
3. Manage the design and construction to ensure compliance with the plan

### SUSTAINABILITY

Vermont is an industry leader in energy conscious design, construction, and regulation. ENGVT's roots run deep in the Vermont way. As a company growing in the Vermont marketplace ENGVT fostered excellence in sustainable system evaluation and implementation. ENGVT leads by collaboratively developing appropriate goals and targets with our clients to guide them through the competing factors in sustainable technology implementation.

### ENERGY STUDIES AND ANALYSES

Many firms offer "energy studies" as a service, but few have the engineering and design experience to ground their studies in the realities of implementation. The energy reduction market has matured and the easy, prescriptive fixes of high efficiency motors and lighting have often already been implemented. ENGVT assists owners and manager with developing efficiency plans that balance prescriptive measures with deep retrofit options. ENGVT has a proven track record of identifying, assessing, and implementing the whole spectrum of energy reduction measures.

### ENERGY MODELING

ENGVT understands the promises and shortfalls of energy modeling as a service. Our depth of experience as design engineers, facilities managers, owners, and commissioning professionals informs our energy model service offerings. From this perspective ENGVT offers energy modeling and analysis services appropriately tailored for all project phases. ENGVT stands above others with its ability to offer technically rich analytic services using research level tools like Energy Plus. From proprietary in house analysis spreadsheets to industry standard simulation tools ENGVT has the know-how and experience to engage the appropriate modeling tool for each client's needs. Our clients embrace our design engineer influences for adding valuable perspective to our modeling services. They appreciate the analytical advantage we bring to planning and assessment studies from concept through operations.