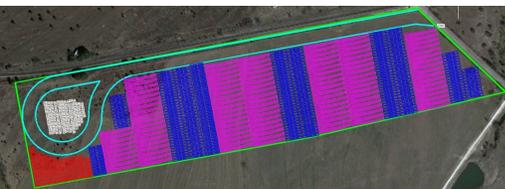


CASE STUDY

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Wind Energy Logistics Centers

Company Profile

In 2015, BNSF Logistics acquired Transportation Technology Services (TTS), a registered Professional Engineering firm in Texas and a leader in developing and operating logistics and distribution centers for wind energy components.

Business Challenge

Following the success of its fixture designs, TTS began providing additional services to the renewable energy industry including development of logistics centers to ensure components are available in key locations for successful project installation. As the market has grown and developed, the need for increased efficiency and cost reduction in distribution center operations has become more important.

Solution

To achieve initiatives related to efficiency and expense, our Engineering team:

- Completes operational assessments including detailed activity time analysis and provides improvement recommendations
- Assesses alternative facility layout concepts for optimal component storage and space utilization
- Develops new facility layouts utilizing graphical analysis methods

Process/Procedure

The BNSF Logistics Engineering team utilizes several tools to complete our analysis. Computer aided drafting software is used to develop, calculate, and optimize layouts of current and potential logistics center sites. This allows the team to quickly and easily determine the number of components a site can accommodate, the amount of space a given number of components will need, and compare different layout concepts for operational feasibility and commercial effectiveness.

To complete operational assessments and time analysis, our team compiles historical production data combined with on site data gathering of current production operations. This data is compared against established benchmarks to create actionable analytics and identify areas that are succeeding and areas for improvement. Though each site is unique, there are many common characteristics and activities between them that allow for collaboration and improvement idea generation.

Our experience in the wind energy component logistics and distribution market combined with detailed engineering work allow us to provide productive, effective, and cost efficient services for our customers.

BENEFITS ACHIEVED

- Quick and accurate evaluation of site locations prior to any capital investment.
- Real-time site production data available to identify success and improvement areas.
- Safe, efficient and economical logistics and distribution centers in key locations.