

## Case Study

# Novozymes

**Solution:** Central Utility Plant

**Market:** Biopharma & Pharmaceuticals

**Design:** Modular

**Scope:** Project dependent: Turnkey/EPC, and Design & Fabrication only



## CHALLENGE

Novozymes is a world leader in industrial biotechnology and bio-innovation. The company required chilled water for a variety of process cooling functions throughout its facility. Specifically, low temperature glycol and chilled process water for process loads, including dehumidification. The goal was to satisfy process loads while also maximizing energy efficiency and minimizing footprint. Additionally, Novozymes required a scalable, flexible solution that could expand to produce more chilled water as their production levels increased.



## SOLUTION

Stellar Energy's initial project for Novozymes was the turnkey delivery of a modular chiller plant, including three (3) chiller skids and a utility skid containing auxiliary equipment designed to expand the company's process cooling capacity as its process loads increase. The plant provided 3,200 TR of cooling capacity and was delivered on time and on budget. The success of that project led to an ongoing relationship with Novozymes that has spanned several projects over the years.

Most recently, Stellar Energy expanded Novozymes' existing process cooling capacity an additional 2,200 TR. The Stellar Energy designed solution included the combination of a modular chilled water plant constructed at Stellar Energy's fabrication facility with factory packaged cooling towers and process water pumps installed at the site.

## QUICK FACTS

Owner:	Novozymes
Location:	Franklinton, NC
Plant specs:	5,500 TR chilling system
Project schedule:	Completed 7 projects from 2006 to 2013

“The key strengths that Stellar brings to the table and why we continue to use them are:

- ✓ *Responsiveness to fast track project and always meeting timelines*
- ✓ *Innovative - bringing true innovation to the table on all of our designs*
- ✓ *Flexibility to tackle different types of projects and resource specialized services as needed*
- ✓ *Cost effective solutions...*”

*Glen Huett  
Staff Engineer Special Projects  
Novozymes North America*

Stellar Energy is a global leader in the design, fabrication, installation and operations of a range of energy systems, including Turbine Inlet Air Chilling, District Cooling, Central Utility Plants and Combined Heat & Power. Learn more at [www.stellar-energy.net](http://www.stellar-energy.net).

