



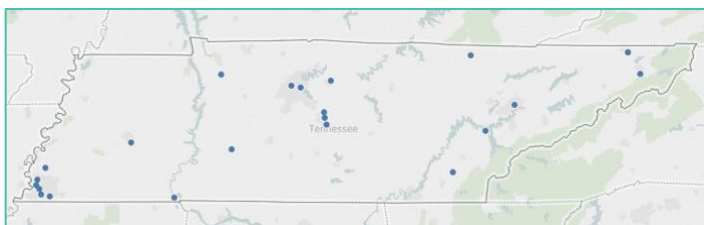
## Combined Heat and Power (CHP) Snapshots – Tennessee

### Southeast CHP Technical Assistance Partnership (TAP) Quick Facts

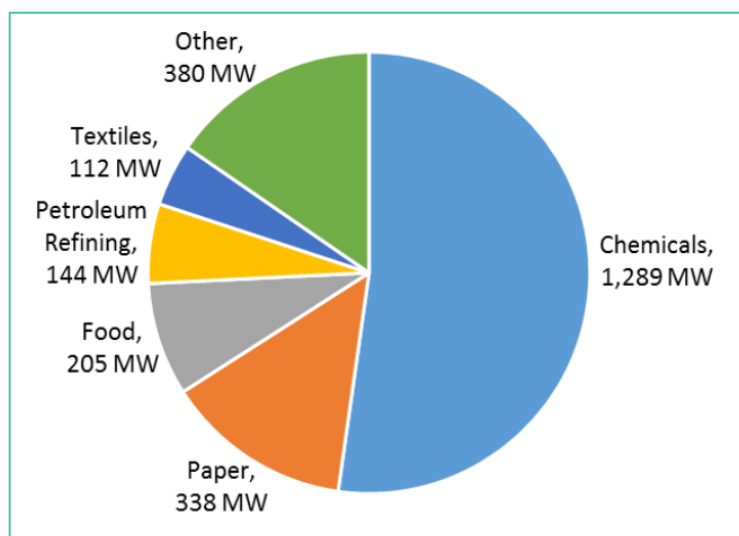
- The Southeast CHP TAP works with regional partners to promote and assist in transforming the market for CHP, waste heat to power, and district energy technologies throughout the Southeast.
- The Southeast CHP TAP serves the Southeastern states of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and **Tennessee**.

State	Number of Current Sites	Total CHP Capacity (MW) Deployment	Number of Potential Sites	Total CHP Technical Potential (MW)	CHP TAP Activities (2014-2017)		
					Technical Assistance	End-User Education	Policymaker Education
Alabama	40	3,270	4,512	2,777	10	3	3
Florida	44	1,403	9,374	5,110	8	5	1
Georgia	68	3,276	17,823	6,968	9	3	4
Kentucky	11	142	4,030	2,721	33	9	5
Mississippi	23	527	2,629	1,833	8	1	4
North Carolina	73	1,511	8,437	4,352	64	14	21
South Carolina	28	1,381	4,273	3,063	23	5	7
<b>Tennessee</b>	<b>22</b>	<b>971</b>	<b>6,134</b>	<b>4,183</b>	<b>51</b>	<b>6</b>	<b>2</b>
Total	309	12,481	57,212	31,007	206	46	47

### Tennessee CHP Installations



### CHP Technical Potential by Industrial Sector





## Tennessee CHP Project Snapshots

- ◆ **James H Quillen VA Medical Center – (Mountain Home, TN)** – Built in 1903, the VA Medical Center provides health services for 170,000 military veterans in Tennessee, Kentucky, North Carolina, and Virginia. It installed a 3.2 MW CHP system in 2001, partnering with the Johnson City landfill to purchase waste biogas to power the CHP system. The CHP system has greatly increased the energy reliability of the facility and saves the medical center roughly \$255,000 per year.
- ◆ **Yoplait (General Mills) (Murfreesboro, TN)** – The General Mills Yoplait plant in Murfreesboro installed a 1.6 MW CHP system in 2015. The CHP system uses waste biogas produced onsite as its primary fuel source, and provides heat and electricity for Yoplait's manufacturing processes. The CHP system allows the facility to save \$800,000 per year on energy costs, and also increases the overall efficiency of the plant, making it increasingly competitive with similar manufacturing facilities.

## Testimonials from CHP TAP Beneficiaries in the Southeast

"Thank you for the DOE Southeast CHP TAP's help in the preliminary evaluation of our CHP system at our Columbia, SC plant. Shaw Industries has found incredible value in the CHP Technical Assistance Program, the positive output of the report was the starting point for our project...The work done by your team demonstrated the viability of this project in measurable ways...This study showed viability without initial investment on our part, it has been a positive factor in getting this project approved and under way!"

*Kurt Kniss, P.E., C.E.M.  
Shaw Industries  
Columbia, SC*

"It was a real pleasure for the opportunity to work with the DOE Southeast CHP TAP on evaluating CHP for Bridgestone America's portfolio of manufacturing facilities...Combined heat and power is a technology that we are working to investigate continuously at our plants due to the economic savings, environmental performance and energy resiliency benefits it can deliver. As a result of the CHP TAP's preliminary evaluation efforts, we have been pursuing a CHP opportunity at our Warren, Tennessee plant, by engaging an engineering firm for further study as well as entering into discussions with our electric utility on supporting the project."

*Muneer Chowdhury, Energy and Environmental Efficiency Manager  
Bridgestone Americas, Inc.  
Warren, TN*

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<sup>1</sup> U.S. DOE, December 2016, "Combined Heat and Power Installation Database" (<https://doe.icfwebservices.com/chpdb/>).

<sup>2</sup> U.S. DOE, March 2016, "Combined Heat and Power (CHP) Technical Potential in the United States" (<https://energy.gov/eere/amo/downloads/new-release-us-doe-analysis-combined-heat-and-power-chp-technical-potential>).