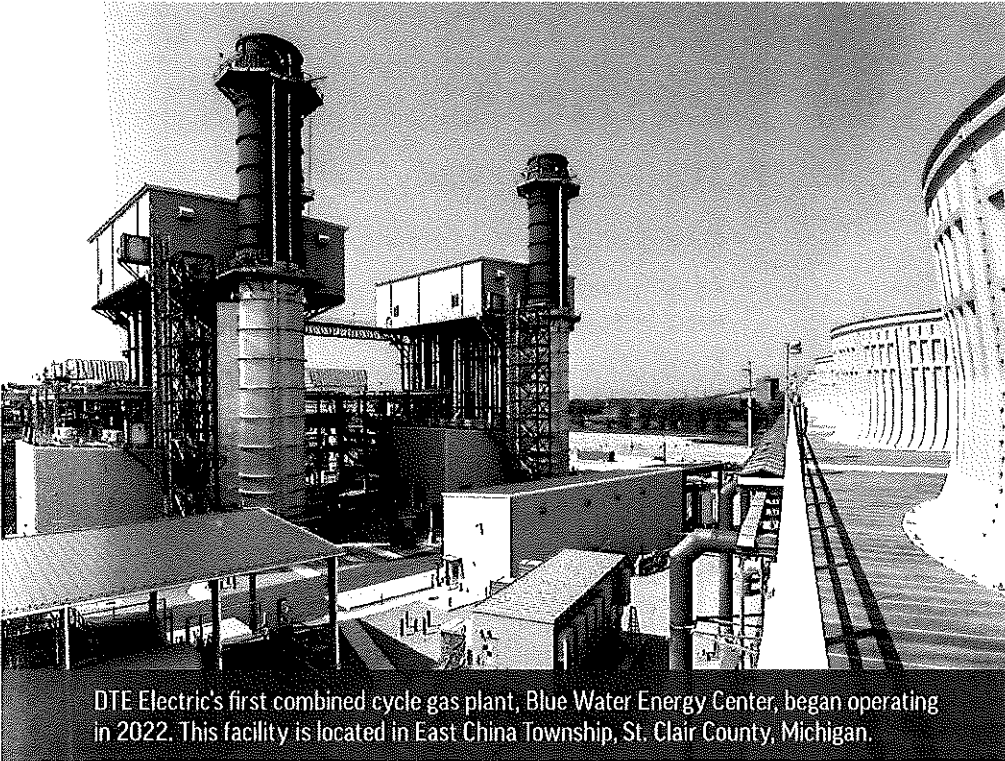




Electricity from natural gas power plants

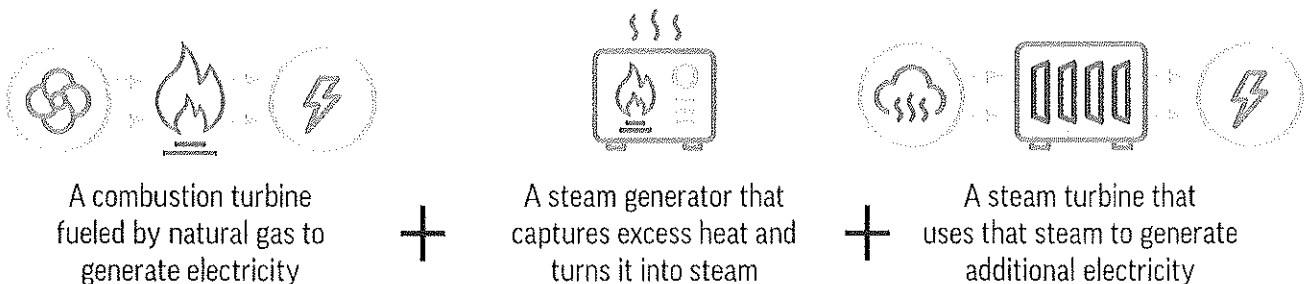


DTE Electric's first combined cycle gas plant, Blue Water Energy Center, began operating in 2022. This facility is located in East China Township, St. Clair County, Michigan.



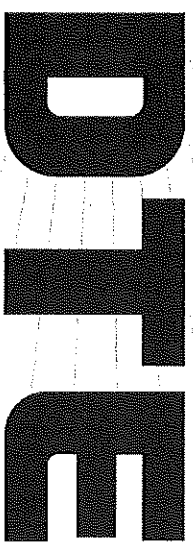
What is a combined cycle natural gas plant?

A combined cycle natural gas plant is an advanced technology that is generally made up of:



Meeting energy demands for today and tomorrow

As energy demand continues evolving, DTE remains committed to ensuring its electricity generation resources meet customer needs. Natural gas plants can respond quickly to changing demand and grid conditions, operating around the clock to provide reliable on-demand power whenever it is needed. Natural gas plants contribute to a balanced mix of resources, including wind and solar, energy storage, energy efficiency, and nuclear power, to help replace aging coal-fired generation.

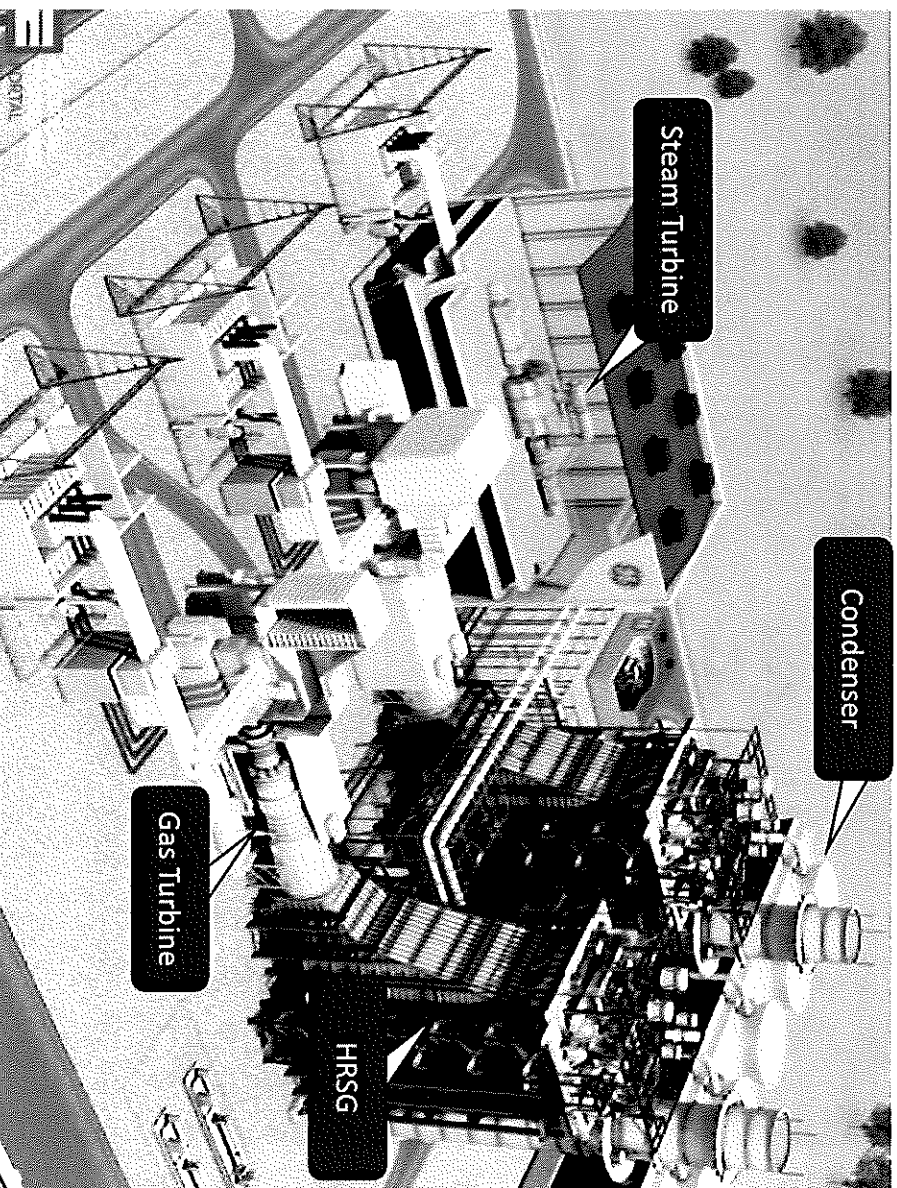


Planning for Michigan's Energy Future: Natural Gas Combined Cycle Power Plant Introduction

August 13, 2026

What is a combined-cycle natural gas power plant?

A combined cycle gas turbine (CCGT) generates electricity from natural gas, then captures heat that would otherwise be wasted to produce additional electricity – making it one of the most efficient forms of power generation



Overview of Combined Cycle Power Plant

Credit: Electrical Engineering Portal (photo credit: businesswire.com)

Gas Turbine

- Air is compressed and mixed with fuel. The hot air-fuel mixture moves through the turbine blades, making them spin
- The spinning turbine drives a generator that converts the energy into electricity

Heat Recovery Steam Generator

- The HRSG captures exhaust heat from the gas turbine that would otherwise escape through the exhaust stack
- It then creates steam from this exhaust heat and delivers it to the steam turbine

Steam Turbine

- The steam turbine, powered by steam from the HRSG, drives an additional generator, creating even more electricity

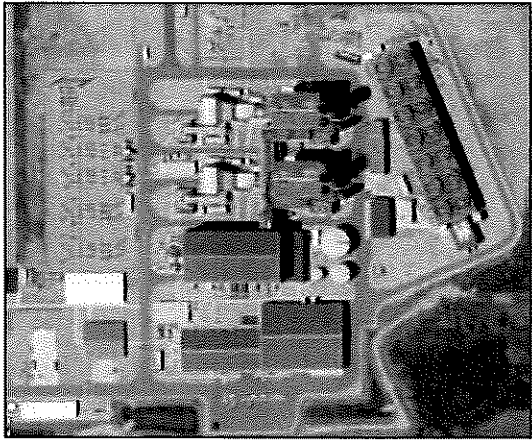
Water (or air) Cooled Condenser

- Exhaust steam flows over cold-water tubes, turning steam back into liquid water and returned to the HRSG

A compact footprint for significant energy generation
Modern combined-cycle generation can produce significant amounts of electricity within a relatively small developed footprint

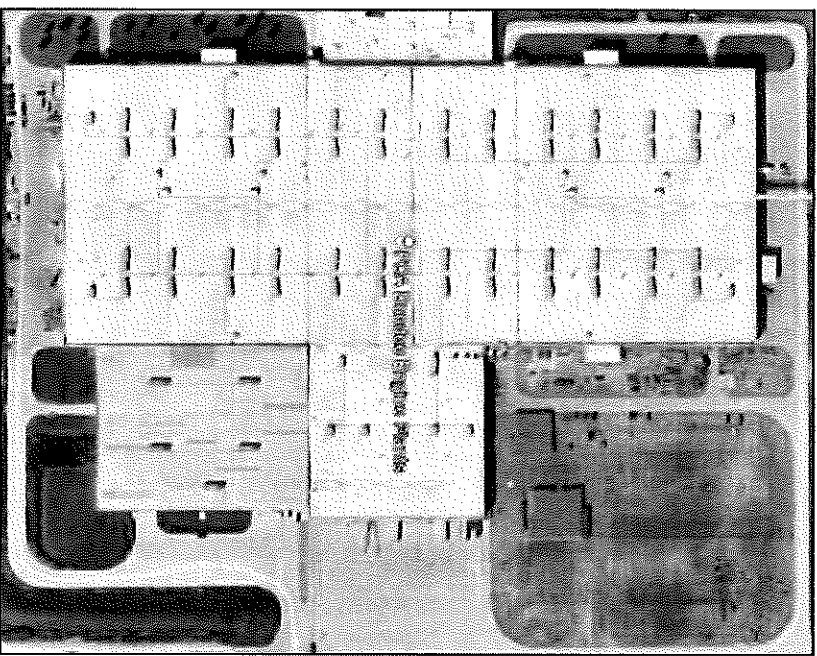
Comparative Industrial Plant Sizing

(Shown at Scale)



Blue Water Energy Center

Area shown is 25 acres



Dundee Engine Plant

Area shown is 55 acres

Google Earth photos shown at ~6,500 feet

Generation Footprint Comparisons

- **Blue Water Energy Center** - ~1,150 MW on approximately 30 acres of developed plant footprint
- **Belle River Power Plant** (1,250 MW coal plant) ~150 acres
- **Monroe Power Plant** (3,200MW coal plant) ~800 acres
- **200 MW Solar** ~1,000 acres

Other Relevant Plant

- **Dundee Engine Plant** – 275-acre site with 1.3 million sqft. of manufacturing space

Designed to be a good industrial neighbor

Modern combined-cycle facilities are designed to minimize impacts beyond the plant site



Low Sound

- Major equipment enclosed and/or acoustically treated
- Facility designed to meet or exceed applicable Township sound requirements



Minimized Water Consumption

- Air cooled condenser significantly reduces water consumption compared with traditional power generation
- Water would be supplied from a municipal source – not local groundwater wells



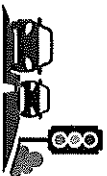
Reduced Emissions

- Among the cleanest and most efficient forms of dispatchable generation
- State-of-the-art emissions controls would be installed, including Best Available Control Technology (BACT)



Small Footprint

- Approximately 30-40 developed acres, allowing significant room for setbacks and screening



Limited Traffic

- Unlike many industrial facilities, very little routine truck traffic once construction is complete

Our commitment to Milan Township

Developing a project that respects the character of the community, minimizes impact, and creates lasting value

Respect the Community's Character

- Focus on existing industrially zoned property
- Preserve substantial setbacks and buffers around the plant

Design with our Neighbors in Mind

- Meet or exceed applicable requirements for sound, air quality, and environmental performance
- Consider impacts to residents in Milan Twp and neighboring communities

Create Lasting Community Value

- Provide significant, long-term property tax revenue
- Develop a community benefits plan reflecting local priorities

Listen, Communicate & Be Transparent

- Engage with Twp officials and residents as project planning advances
- Provide clear answers as engineering and environmental studies are completed

Our Ask Tonight: Help us to understand what matters most to Milan Township

We invite the Board to compile a list of questions and concerns so DTE can provide timely, detailed responses as we continue to evaluate this opportunity