



Field-Feeding & Advanced Sustainment Technology (FAST)



Field-Feeding and Advanced Sustainment Technology (FAST) will minimize manpower, equipment, and consumables (fuel and water), and substantially reduce both the transportation and deployable logistics footprint and enhance the quality of food service.

Why is it Needed?

There is a critical need to significantly reduce the weight, cube, and logistics support of combat field feeding systems. Instead of military unique appliances and thermodynamically limited burners and generators, a central heater with cogenerator efficiency produces heat and electric power that enables the use of high capacity commercial appliances, heat-driven refrigeration, integrated sanitation, and grey water recycling. This totally integrated system will reduce fuel and water consumption by 50% and the logistics footprint in comparison to current systems by up to 75%. FAST technology will transition to the Containerized Kitchen for use in Future Force Maneuver Sustainment at the Mission Staging Site and Unit of Employment.

Technology:

Current field kitchens use military unique appliances heated by open flame burner units powered by electric generators. FAST technology uses a single closed burner and heat exchanger to heat a fluid that is circulated to high capacity commercial appliances. The fluid (two phase water) is also used to cogenerate electric power so that a separate engine driven generator is no longer required. The fluid is also used to distill and recycle grey water from sinks.

Key Features / Benefits:

Reductions in required manpower, weight, cube, and logistical support will provide comparable throughput rates (500+ warfighters/ meal) while enhancing food quality and operating environment. The use of commercial food service equipment will reduce total life cycle costs. Cogeneration technology is beginning to transfer to the commercial market.

Point of Contact:

DoD Combat Feeding
Phone: COMM (508) 233-4401
E-Mail: amssb-rcf@natick.army.mil



**NATICK
SOLDIER
CENTER**

Kansas St.
Natick, MA
01760
nsc.natick.army.mil