

Tactical Electric Power (TEP)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides standardized tactical electric power to the Department of Defense in support of national security.

DESCRIPTION

The Tactical Electric Power (TEP) program consists of small (2-3 kilowatt [kW]), medium (5-60kW), and large (100-840kW) electrical power generating systems, trailer-mounted power units and power plants, and electrical distribution equipment that provide standardized power management solutions to all Department of Defense agencies and numerous Allied nations. The Project Manager Mobile Electric Power's systems:

- Maximize fuel efficiency
- Increase reliability (750 hours mean time between failures), maintainability, and transportability
- Minimize weight and size while meeting all user requirements

- Operate at rated loads in all military environments
- Reduce infrared signature and noise (less than 70 decibels at seven meters)
- Are survivable in chemical, biological, and nuclear environments
- Meet power generation and conditioning standards in accordance with military standards (MIL-STD 1332)

TEP systems provide essential power for Brigade Combat Team command posts, command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR) systems, air defense, aviation, field artillery, force provider, and combat support and service support systems. The military-ruggedized commercial components use alternative and renewable energy sources. The TEP has a variety of generator set sizes: 2kW Military Tactical Generator (MTG), 3kW Tactical Quiet Generator (TQG), 5kW TQG, 10kW TQG, 15kW TQG, 30kW TQG, 60kW TQG, 100kW TQG, 200kW TQG, and 840kW Deployable Power Generation and Distribution System (DPGDS); of these, the 2kW MTG and 3kW TQG are man-portable.

The newest systems are the Advanced Medium Mobile Power Sources (AMMPS), which will replace the Tactical Quiet

Generators (TQG): 5kW AMMPS, 10kW AMMPS, 15kW AMMPS, 30kW AMMPS, and 60kW AMMPS.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **FY11:** Continued Production and Fielding of 2kW MTG, 3kW TQG, 5kW TQG, 10kW TQG, 15kW TQG, 30kW TQG, 60kW TQG, 100kW TQG, 200kW TQG, and 840kW DPGDS
- **2QFY11:** Large Advanced Mobile Power Sources (LAMPS) Milestone B Approved, enter Engineering and Manufacturing Development (EMD)
- **4QFY11:** AMMPS Type Classification Standard (TC-Std), Full Materiel Release (FMR), and Full-Rate Production (FRP) Approved

PROJECTED ACTIVITIES

- **1QFY12-2QFY12:** 3kW TQG Re-procurement
- **3QFY12:** Large Advanced Mobile Power Sources (LAMPS) Contract Award for Engineering and Manufacturing Development (EMD)
- **3QFY12-2QFY13:** Power Distribution Illumination System Electrical (PDISE) Re-procurement

- **FY12-FY14:** Continue Production and Fielding of Advanced Medium Mobile Power Sources (AMMPS), 3kW TQG, 100kW TQG, and Power Distribution Illumination System Electrical (PDISE)

ACQUISITION PHASE

Technology Development

Engineering and Manufacturing Development

Production and Deployment

Operations and Support

Tactical Electric Power (TEP)

FOREIGN MILITARY SALES

Tactical Quiet Generators (TQGs) have been purchased by 38 countries

CONTRACTORS

3kW, 5kW, 10kW, 15kW, 100kW, and 200kW TQG:

DRS Fermont (Bridgeport, CT)

30kW, 60kW TQG:

L-3 Westwood (Tulsa, OK)

2kW MTG:

Dewey Electronics (Oakland, NJ)

Deployable Power Generation and Distribution System (DPGDS):

DRS Fermont (Bridgeport, CT)

Power Distribution Illumination System Electrical (PDISE):

Fidelity Technologies Corp. (Reading, PA)

Advanced Medium Mobile Power Sources (AMMPS) 5-60kW:

Cummins Power Generation (Minneapolis, MN)

