

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 systems:

- Maximize fuel efficiency
- Increase reliability (500–600 hours mean time between failure), 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)
- Provide quality electric power for command posts; command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR) systems; weapon systems; and other battlefield support equipment

TEP systems provide essential power for Brigade Combat Team command posts, 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 DPGDS; of these, the 2kW MTG and 3kW TQG are man-portable.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **FY08–09:** Fielded the 15kW “B” Model TQG
- **FY08–09:** Advanced Medium Mobile Power Sources (AMMPS) (next generation of medium TEP sources) continued in Phase 2, system demonstration
- **2QFY09:** First delivery of AMMPS pre-production test models
- **3QFY09–1QFY10:** AMMPS developmental and operational testing
- **FY09–10:** Production and fielding ongoing for 2kW MTG, 3kW, 5kW, 10kW, 15kW, 30kW, 60kW, 100kW, and 200kW TQG
- **FY09–10:** Continue assembly and fielding of power units and power plants (trailer-mounted generator sets)

- **FY09–10:** Production and fielding ongoing for Power Distribution Illumination System Electrical (PDISE)

PROJECTED ACTIVITIES

- **1QFY11:** 3kW TQG rebuy contract award
- **1QFY11:** Large Advanced Mobile Power Sources Milestone B
- **2QFY11:** 2kW MTG rebuy contract award
- **2QFY11:** AMMPS Milestone C and full-rate production contract
- **FY10–11:** Continue production and fielding of MTG and TQG generator sets, power units, and power plants
- **FY10–11:** Continue production and fielding of PDISE

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Tactical Electric Power (TEP)

FOREIGN MILITARY SALES

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)

2 kW 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)

Trailers for Power Units and Power Plants:

Schutt Industries (Clintonville, WI)

Advanced Medium Mobile Power Sources 5–60kW:

Cummins Power Generation (Minneapolis, MN)

