



## High-powered air turbine podcast

Advanced Technologies Group Incorporated (ATGI, H2/A24) is showing off its new high-powered ram air turbine (HIRAT) that will power the US Navy's future Next Generation Jammer (NGJ) pod for the first time.

Compared with the ITT-built ALQ-99 pod turbine, which produces 27KW of power, the HIRAT produces over 140KW.

The increased power is need-

ed for the USN's power and coverage requirements for the NGJ. Unlike the current jammer, the new pod is required to have 360° coverage. It will also make use of active electronically scanned array (AESA) antennas and gallium nitride semi-conductors. That means the new pod will need to have the turbine in the middle rather than at the front, ATGI says. The HIRAT,

which uses a completely new and revolutionary design, has the turbine in the centre, says John Justak, ATGI's president.

The centre-mounted design allows for the pod to be much more streamlined than traditional jammer-pods. That means the Boeing EA-18G, which currently uses the ALQ-99 pod, will be able to take advantage of much more of its flight envelope.