

Final Technical Report
For
**National Alliance of Clean Energy Incubator Activities –
Georgia Advanced Technology Ventures, Inc.**

For the period
September 15, 2002 - September 14, 2004

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Prepared for:
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Summary

During reporting period September 15, 2002 through September 14, 2004, ATDC has participated as an active member of the Alliance of Clean Energy Business Incubators and has increased the level of “clean energy” activity within the ATDC business incubator. ATDC now has four “clean energy” member companies receiving incubation services. These services have included business mentoring, marketing assistance, linkage to capital funding, and flexible facilities.

ATDC has made significant progress towards the objectives of the alliance specifically in the areas of reviewing “clean energy” business plans, new company admission, providing value-added services and marketing of the alliance. Details of this progress are provided in the following section.

Project Progress and Results

Table 1 provides a summary of the project progress and results to date against key metrics:

Table 1 – Project Metrics

Project Metrics	Goal	Result	Details/Explanation
Review business plans	25	24	Sixteen “clean energy” related companies applied for membership in ATDC’s incubator program. Several inquiries from additional prospective member companies were also received.
Admit new member companies	4	3	BlueSpan Communications, Radatec, and ScanTech were taken through ATDC’s extensive application process and were successful in meeting ATDC’s membership requirements.

Project Metrics	Goal	Result	Details/Explanation
Provide incubation services to member companies	100%	100%	The full complement of ATDC business and management, and flexible facilities services were provided to the current “clean energy” member companies.
Exhibit or speak at energy related events	10	8	These events included: Venturelab Technology Day The Georgia Technology Forum NREL Venture Forum, NY Technology Entrepreneurs of Puerto Rico Conference “First” Tuesday Technology Event, Atlanta ENet – Entrepreneurs Network Quarterly Workshop
Participate in Alliance Meeting	100%	100%	ATDC has participated in person at all meetings of the alliance.
Participate in NREL Industrial Growth Forums	2	2	ATDC provided mentoring to presenting companies at two NREL Venture Forums.

Current “clean energy” member companies at ATDC include:

Bluespan Communications - Developer of Wireless Energy Network Systems (WENS). The WENS platform enables energy providers or users to monitor and control energy distribution and consumption.

Radatec – Developer of radar vibration sensor applicable to power turbine systems.

Scantech- Applications of high-energy electron beam and X-rays to inspect cargo and irradiate food. Food irradiation system provides significantly improved processing rates and energy use.

KBI - Kinetic Biosystems manufactures and sales energy efficient bioreactor technologies and equipment.

Together these companies employ 26 full time staff and received over \$950k of capital funding during the past 12 months.

In addition to reviewing business plan applications from the general community, ATDC put forth significant effort in evaluating the commercial potential of “clean energy” technologies existing within the research centers of the Georgia Institute of Technology. During this reporting period, ATDC evaluated over 15 technologies for potential as start-up companies. Examples include:

- Lithiated nano-structures as a potential high power density battery technology to power MEMS devices and sensors;
- Microwave drying technology as a replacement for drying via steam cans.
- Electric de-inking technology that has environmental benefits to those in paper recycling and water purification.
- Novel coating chemistry that can reduce friction of ocean vessels (among other applications).

In May 2003 and 2004, ATDC hosted an open house for over 300 members of the Georgia technology community. This event provided an opportunity for our existing “clean energy” member companies to exhibit and network with this group.

ATDC finished construction of its new headquarters facility in Georgia Tech’s new Technology Square complex. This new headquarters will increase the availability of incubation space and the level of incubation services for “clean energy” companies. Two of our clean energy companies have already moved into new office/lab suites in this facility.