Huntsville Framed
Content

- Integrated Non-Profit Collaborative
- Energy Huntsville Vision and Mission
- Structure
- Energy Huntsville 2015 Activity
- Opportunities
- 2015 EH Monthly Program Strategy
- MOUs and Collaboration
Integrated Non-Profit Collaborative

**Government**
- Integral part of national energy Infrastructure
- Expansion of Cyber RDT&E Capabilities
- Support federal energy R&D
- Enhance energy solutions

**Industry**
- Technology transfer of energy initiatives
- Merge industrial energy technology with academia, utilities and government
- Establish industry consortium to focus on energy initiatives

**Academia**
- Careers for graduates
- Support energy education
- Engage faculty, students and researchers in solving and enhancing energy innovation

**Utilities**
- Capitalize on TVA’s existing energy R&D pilots
- Promote micro and smart grid technology
- Provide for collaborative alternative and renewable energy sources
Energy Huntsville is a 501(c)6 nonprofit collaborative mobilizing the community to pursue regional and national energy opportunities that leverage the area’s energy technologies and talent.

We do this by raising awareness, identifying opportunities and providing the networking environment that facilitates the development of successful teams and solutions.
Energy Huntsville 2015 Activity

Supporting Economic Development Through:

- **Membership Growth**
- **Supporting the Mayor’s and Chamber’s Economic Activity**
- **Monthly Energy Huntsville Meetings**
  - Energy Sector Opportunities
  - Monthly Programs and Quarterly Workshops
  - Networking
- **Supporting Teaming for Competitive Pursuits**
  - Networking Events
  - Data and Reference Systems
- **Energy Summit - 2015**
- **Collaborative Activity with the Other Huntsville Initiatives’ and Working Groups**
Four Focus Areas: Opportunities, Programs & Special Projects

- **Opportunities**
  - *Opportunity Database*

- **Programs**
  - *Program and Educational Strategy*

- **Networking**
  - *Meetings, Workshops and Events*

- **MOUs and Collaboration**
  - *USSRC, Summit, UAH, ACFSE, TechRich, Schools and TVC*
## Opportunities Database

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2015 EH Program Strategy

- **January - May**
  - January: Army Corp Energy Program Update
  - February: Tesla Demo
  - March: Spectrum Solutions Control Systems with TenK Solar
  - April: AECOM Energy Overview
  - May:

- **August - December**
  - August:
  - September:
  - October:
  - November: Energy Summit - 2015
  - December: 2015 Celebration

Interest Group Bi-Monthly Gathering
MOUs and Collaboration

- U.S. Space and Rocket Center
  - USSRC

- Energy Summit - 2015
  - Energy Initiative Event

- University of Alabama in Huntsville
  - UAH

- Alabama Center for Sustainable Energy
  - ACFSE

- Technology Regional Innovation Cluster
  - TechRich

- Huntsville City Schools
  - Greenpower

- Tennessee Valley Corridor
  - TVC
U.S. Space and Rocket Center

Memorandum of Understanding

- U.S. Space and Rocket Center (USSRC) Energy Program
  - Prepared a Roadmap to “net zero”
    - Suggested projects with estimated reduction in grid energy demand
    - Step-wise schedule for implementation
    - Public education opportunities
  - Advised USSRC regarding procurement of energy services
    - Performance contract
    - Competitive procurement
  - Possible energy modeling of USSRC campus
    - Coordinated effort for AMRDEC lab to use campus as training case for new energy modeling tool
- Hosting Energy Huntsville Events
  - Monthly meetings
  - Energy Summit 2015
  - Workshops & Special Events
YouTech®: Science and Spinoffs

Everyday uses for advanced technology
Energy Summit - 2015
University of Alabama in Huntsville
Memorandum of Understanding

WORKFORCE DEVELOPMENT

- Help Huntsville City Schools expand Electric Vehicle competition to Huntsville community
  - Autocross and go-kart racers
  - Ford/Toyota potential sponsors
- Expand EHI Switchblade competition to
  - Other wind generators
  - Build-your-own solar panels
- Implement local microgrid cyber competition
- Support energy lab development at UAH/AAMU
  - Microgrids/Alternative Energy
  - Energy Efficiency
- Begin Professional Dev. energy seminars

TECHNOLOGY DEVELOPMENT / INDUSTRY SUPPORT / JOB CREATION

- Use Distributed Energy Resources Working Group to develop one or more microgrid demonstrators
  - Creates pool of expertise in HSV
  - Supports deployment of new technologies
- Reach out to local defense contractors to identify and encourage dual use energy technologies for commercial/DOE gaps
- Provide a bridge to the Huntsville Start-up/Incubator/Accelerator community for companies and individuals that need the support

BETTER BUILDINGS INITIATIVE / GEORGETOWN UNIVERSITY ENERGY PROGRAM

- Host resource area on EnergyHuntsville.com
- Support USSRC efforts to build technology demonstration area
- Support building technology demonstrators at local colleges/universities to showcase BBI/GUEP opportunities and develop new technologies
- Develop EHI community “talk” and give to high schools, libraries, B&G Clubs, senior centers, company lunch’n’learns, Civic Groups, professional societies… Goal would be to give the talk once each week.

GROW EHI MEMBERSHIP

- Be more aggressive in advertising meetings
- Web site improvements
  - Provide a listing and informational resource for implementing energy efficiency and renewable energy projects
  - Provide service listing area for EHI members
  - Membership database:
    - Support refining member information
    - Improve website access to members
Mission: Accelerating the transition to sustainable, clean energy throughout Alabama.

Goal: Power Huntsville with 100% clean and efficient energy by 2025 and Alabama by 2035.

5 Focus Areas:
• Education: Change the way our community interacts with energy
• Structure: Make all buildings efficient
• Production: Switch all energy to locally produced renewable energy
• Transportation: Deploy electric vehicles and alternative transportation
• Infrastructure: Build the shared clean energy infrastructure both physical and intellectual

Example Project:
Huntsville Better Buildings Challenge - A competition among Huntsville commercial buildings engaging local building owners and operators, and providing targeted resources to help them reduce energy consumption. A joint effort with Energy Huntsville, and Avion Solutions
Technology Regional Innovation Cluster

ORGANIZATION INFORMATION
TechRich, lead by the Women’s Business Center of North Alabama (WBCNA), a 501 (c)3 not-for-profit institution, strives to increase the level of collaboration among academics, small businesses, large prime contractors, and government entities – thus increasing innovation in the region. The Small Business Administration (SBA) awarded WBCNA a contract to help implement regional collaborative initiatives and achieve a higher level of small business participation in government contracting and technology commercialization.

TECH FOCUS AREAS
• Communications
• Cyber Security
• Data Modeling & Analysis
• Environmental Monitoring
• Innovative Energy Applications
• ISR
• Interoperable Systems
• Robotics (UAVs)
• Sensors
• Small Spacecraft

STAKEHOLDERS
• Entrepreneurs
• Inventors
• Innovative Small Businesses
• National Labs
• Government Customers
• Lenders & VCs
• SBIR/STTR Program Managers

KEY DISCRIMINATORS
• Cluster of High-tech Small Businesses, Large Businesses, Universities, Not-for-profits, Lenders, Government Agencies and Research Labs with Common Goals and Complementary Capabilities
• Open Innovation and Collaboration among these groups leads to higher value technologies and products for the customer in less time and at lower cost than traditional processes and practices
• www.Collaboration-Exchange.com – a Collaboration Web Tool to Promote and Foster Open Innovation and Collaboration (currently undergoing updates)

SERVICES & CAPABILITIES
• Mentoring/Training/Counseling
• Tech Transfer & Commercialization
• Engagement with SBIR Programs
• Support Obtaining Facility Clearances
• International Market Development
• Export Readiness & Control Counseling
• Support for Underserved Communities
• Meetings with Prime Contractors
• Procurement Training
• Ideation Sessions on Key Proposals
• Proposal Support and Funding
• Product Launch Planning
• Technology Assessments
• Capability Statement Training

KEY PARTNERS
• Alabama A&M University
• BID Designs
• Glenn Priddy
• North Alabama International Trade Association
• Southern Aerospace Company
• Robotics-Unmanned Systems

POINTS OF CONTACT
Terry Griffin, Project Manager
terry.griffin@wbcna.org
Phone: 256-975-1285

Christi Jackson, Deputy Project Manager
christi.jackson@wbcna.org
Phone: 256-426-1883

515 Sparkman Dr. NW Huntsville, AL 35816 www.wbcna.org www.clinaboration-exchange.com
Huntsville City Schools
Greenpower Overview

- Highly successful track record engaging over 10,000 students and with 600 teams competing throughout the UK
- Highly effective method of teaching STEM project based activities through designing and manufacturing a single seat electric car
- Teaches Multi-disciplinary engineering and manufacturing key concepts, design to market strategies
- Industry recognized
- Develops team building and communication skills
Tennessee Valley Corridor

- **Vision**
  - Promote TVC’s national leadership in science and technology through regional cooperation.

- **Mission**
  - Sustain TVC’s existing federal missions, compete for new federal investments and leverage these investments to grow more private sector job opportunities.

- **Strategies**
  - Convene key leaders in the TVC on a regular basis to create relationships, working collaborations and common goals.
  - Communicate the TVC’s reputation as an important science and technology center, internally and externally.
  - Align the focus of the TVC with those of the TVC Congressional Caucus, the TVC Leadership Council and other partners.
  - Celebrate the accomplishments of TVC organizations and individuals in promoting the TVC Vision and Mission.
  - Create and implement program initiatives to further the TVC’s mission.
Close

Contact information: 256 656-1155 and jay@newkirk-al.com and energyhuntsville.com