

# **A. Tamasin Sterner, Owner Pure Energy**

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## **Summary of Experience**

Owner and Founder of Pure Energy, based in Lancaster, PA with a second office in Montana. Thirty years experience in the home performance field, with a focus on energy conservation and efficiency consulting, utility low-income home weatherization programs, energy auditing, energy conservation education, quality assurance, and training. Experience includes over five years as manager of the conservation department for an electric utility. Supervise Independent Contractors for some work. Building Performance Institute (BPI) Certified as a Building Analyst, Envelope Professional, Proctor. All Field Technicians are BPI Certified.

December 2009, met with President Obama to brief him on opportunities for energy efficiency businesses in the HOME STAR Program, by invitation. One of five on a roundtable.

## **Key Experience**

Pennsylvania's Low Income Usage Reduction Program:

- Since 1987: As a contractor, currently perform energy education visits, weatherization inspections, energy audits, contractor training, and some installation of measures for PPL EU Lancaster Region's WRAP program (up to 600/ year of each). Co-developed the energy education component of WRAP. Consult for program improvement.
- Since 1989: As a contractor, currently perform comprehensive energy audits and inspections visits for Columbia Gas' Warm Choice Weatherization Program in York, PA. (up to 70 per year).
- Since mid 1995: As a contractor, currently perform inspections and energy education visits for First Energy, Met-Ed's WARM Weatherization Program in all their service territories (up to 1200 a year). Consult for program improvement.
- In 2005 – 2006: As one of three chosen contractors, performed 23 intensive home energy audits and energy education visits for high electricity users as part of PPL's Managing Cap Credits Program.

New Jersey's Comfort Partners Program:

- Since 1999: As a contractor, currently perform quality control inspections and energy conservation education for First Energy, Jersey Central Power & Light's Comfort Partners Program (up to 1400 a year). Consult for program improvement.
- Since 2000: As a contractor, currently perform quality control inspections and energy conservation education for New Jersey Natural Gas's Comfort Partners Program (up to 175 a year).
- Since 2005: As a contractor, currently perform quality control inspections and energy conservation education for PSE&G's Comfort Partners Program (up to 450 a year).

- Since 2007: As a contractor, currently perform quality control inspections and energy conservation education for Elizabethtown Gas's, Atlantic City Electric's, and South Jersey Gas's Comfort Partners Program (up to 200 a year).
- Since 2009: As a contractor, chosen to assist the NJ Utilities in choosing Service Providers by performing job inspections in 5 states.

Since 2009: Certified PA Weatherization Instructor

Since 2008: NAHB Third Party Green Homes Verifier

In 1997 and 1998: As a contractor, performed quality control inspections and evaluation for Philadelphia Gas Work's Conservation Works Weatherization Program (150 home inspections per year).

In 2004 and 2005: As a subcontractor to Michael Blasnik & Associates, performed post inspections and auditor Tag-Along Visits for Ohio's EPP Conservation Program Evaluation (86 field visits in program participant's homes).

From 2000 – 2008: Performed quality control inspections on solar thermal and solar electric systems, and educated consumers for the PA Renewables Program for PPL and First Energy.

From 1980 through 1986: As an employee, developed and managed these energy conservation programs in for the City of Port Angeles, WA:

- Residential Weatherization Program - energy analysis and weatherization of 3000 homes
- Water Heater Insulation Wrap Program - 4000 installations
- Solar Domestic Water Heating Workshop Program - design, construction and installation of solar water heating panels
- Commercial Audit Program - comprehensive analysis of 300 buildings
- Small Commercial Weatherization Program - lighting retrofit
- Institutional Buildings Program - installation of energy management systems
- Technical Assistance Program - for the Model Conservation Standards
- Super Good Cents - energy efficient new home construction
- Energy Conservation Information Series Workshops – educational public workshops
- Schools Energy Conservation Program – developed materials for schools

## **Employment**

1986 - Present

Owner, Pure Energy, Lancaster, PA

Electric and Gas Utility Weatherization and Conservation Program Consultant and Contractor. Train other Energy Educators, Auditors and Inspectors. Deliver workshops. Program operation consulting. Program phone follow up energy conservation education. Use independent contractors. Private energy audits, including blower door tests and zonal pressure diagnostics. Trained and certified in solar hot water systems and photovoltaic systems. BPI Affiliate. BPI Building Analyst Certified. BPI Envelope Professional Certified. BPI On-line and Field Proctor.

1981 - mid-1986

Conservation Manager, City of Port Angeles, Port Angeles, WA

Managed Conservation Division of a municipal electric utility and supervised six energy auditors and inspectors. Prepared multi-million dollar budgets each year.

1979 – 1980

Assistant Director of Operations and Sales, Goodwill Industries, Lancaster, PA

Assisted the Director in reconditioning donated materials, recycling non-salable materials, collection and distribution to retail outlets, sales direction in outlets, and building maintenance.

## **Education and Professional Development**

1974 - 1978

B.A. / Economics, Millersville University, Millersville, PA

Concentration in Supervision and Management, Minors in Psychology and Art

Non-Traditional Programs for Women Course, Lancaster, PA. Learned basic building construction, housing rehabilitation and retrofit in an 800 hour course

Investment in Excellence personal development program, Port Angeles, WA

Building Performance Institute (BPI) Certified as a Building Analyst

Dale Carnegie Course, Lancaster, PA

Volunteer for Contact 24 hour crisis help phone line after 16 week training course, Lancaster, PA

Home Inspections course by Home Inspectors Training Associates, Syracuse, NY

Certified in solar water heating and photovoltaic system siting, sizing and installation, Solar Energy International and Florida Solar Energy Center

Attended most Affordable Comfort Conferences

Received Washington State Energy Innovation Award

A.S.H.I. Candidate

Bonneville Power Administration certified Energy Auditor and Inspector

## **Professional Service**

- Co-facilitated 29 technical training sessions for fellow home performance contractors: Pressure Diagnostics; Zonal Pressure Testing; Auditing; Inspecting; Blower Door and Air Sealing; Dense Pack Insulation; Mobile Home Weatherization; Using a KWh Monitoring Meter; Cooling Efficiency Measures; Water Heating Measures; Solar Water Heating; Photovoltaic; Heat Pump Training; Combustion Safety Testing; Utility Weatherization Contractor Training; Electric Baseload.
- Facilitated and Co-facilitated these workshops at Affordable Comfort Conferences: Be the MVP in the CAZ: Combustion Testing for Beginners; Problem-Solving High Electric Baseload Use; House of Horrors; Client Communication and Energy Education; Creating Comfort Zones; Community Education: Methods and Media; What's An Audit? Simple to Comprehensive;

Electric Baseload: A Thousand Tiny Bites; Communication Skills; Imaginal Education; The Power of Purpose; How to Use the Solar Pathfinder – solar siting; Consumer Energy Conservation Education; Conscious Communication; Commitment to Action and Beyond; Steps to Communication; Electric Baseload Auditing In Field; Baseload Basics; Where Does Your Baseload Dollar Go; Lighting Alternatives; Low Income Baseload Programs: Design and Implementation; High Usage Pilots; Pursuing Household Electric Savings, In Field; Renewables Siting; New Evidence in Energy Education Effectiveness.

- Co-Instructor (with Larry Armanda) for PPL Sponsored BPI Building Analyst Training, 5 weeks 2009, 2010
- Field mentored PPL WRAP Contractors (with Larry Armanda) for several weeks in 2010
- Presented Occupant Education course to ECA's staff, June, 2010
- Presented Weatherization 101: How to Get Low-Income Families to Buy-In to Conservation, 2010 National Energy and Utility Affordability Conference
- Instructor for BPI Home Performance Energy Evaluations Course for Thaddeus Stevens College of Technology, September and October, 2009
- Home performance training for APPRISE Inc. staff, October, 2009
- Auditor Trainer for the Virgin Islands Energy Office, St. Croix, October, 2009
- Auditor and Inspector Trainer for Puerto Rico WAP, February 2010
- Adjunct Instructor for Thaddeus Stevens College of Technology; BPI Home Performance Energy Evaluation Course, 2009
- Author of article about Field Mentoring in the September/October, 2009 edition of Home Energy Magazine
- Featured Member in the first Keystone Energy Efficiency Alliance Newsletter, July 2009
- Presented at the PA Home Energy Conference, March 18-19, 2009
- Key Presenter for the HP 101 Conference, March 19, 2009
- Presenter for three of the Home Performance 101 Sessions, June, 2009 (Keystone Help; DEP Program)
- Wrote and edited part of PPL EU's WRAP Standards and Field Guide, 2004 and 2010
- Taught Electric Baseload course to Energy Coordinating Agency staff, Philadelphia, PA, July 2008 on behalf of the PA Weatherization Training Center.
- Taught Combustion Safety Testing; Do Your Program Standards Measure Up? Warm Choice Standards; Air Sealing Basics; Dense Pack Wall Insulation to Columbia Gas Core Contractors at the Energy Essentials Conference, December 2008
- Co-facilitated these workshops at the Wisconsin Energy Center's Better Buildings: Better Business Conference: Where's the Juice in Electric Baseload, and Strategic Listening for Best Outcomes, March, 2008
- Presented a workshop at the National Energy and Utility Affordability Conference, Denver, Colorado: Selling Conservation: How to Get Buy-In from Customers, June 2008
- Co-Developed and taught Curriculum for the PA Weatherization Training Center Baseload Auditing Course, November, 2007 and April 2008
- Developed and facilitated the two day WARM Program Staff Development Meeting, November, 2007
- Developed and facilitated the WARM Program Train the Leaders training and the Field Training Blitz, September and October, 2008

- Developed and presented Energy Solutions for City Homes on behalf of L.I.V.E. Green Lancaster, October 2008
- Planning Committee Member for KEEA Energy Efficiency Works: Learn How, September '08
- Planning Committee Member and Partner of ACI-NJ'07 and ACI-NJ'08
- Founding Member of the Susquehanna Sustainable Business Network
- Member of the Susquehanna Sustainable Business Network Board
- Presented courses on Baseload Opportunities and Customer/Client Interactions at PPL/DCED Weatherization Conference, 2005
- Featured in the Safe Energy Communication Council's publication called Pennsylvania Home Power Boosters: A Guide to Home Energy Savings.
- Featured on several television news programs
- Member of the International Solar Energy Society
- Member of the Northeast Sustainable Energy Association
- Member of the Midwest Renewable Energy Association
- Member of the Green Building Association
- Member of Solar Energy International
- Member of the Lancaster County Conservancy
- Member of Keystone Energy Efficiency Alliance
- Founding member of the Professional Association of Consumer Energy Educators
- Co-manager of the Pennsylvania Energy Efficiency Council
- Charter Member of Affordable Comfort Housing Performance Association
- Served on Washington State Energy Extension Service Education Advisor Group for four years
- Served on Bonneville Power Administration's Utility Monitoring Group for four years
- Member of PPL's Energy Education Task Force to develop a WRAP Energy Education Manual
- Served on PPL's Inspection Procedures Committee
- Presents workshops at the Utility Fairs sponsored by the Public Utility Commission
- Member of First Energy Universal Service Community Partnership Coalition
- Member of First Energy's WARM Program Advisory Panel
- Member of the Lancaster Chamber of Commerce
- Member of the PA Housing Research/Resource Center

## **Skills**

- Experienced in proposal writing and grant administration
- Excellent at networking, public speaking, workshop delivery and training
- Personally remodeled three houses, including one solar heated home
- Uses the following technical tools and equipment: Brultech Watt/Hour Meter, Minneapolis Blower Door, Digital Manometer, Pressure Pan, Combustion Analyzer, Carbon Monoxide Tester, Infrared Camera, Non-Contact Infrared Thermometer, Solar Pathfinder
- Certified by the Commonwealth of PA, the State of New Jersey, and the State of Delaware as a Woman-Owned Business Enterprise