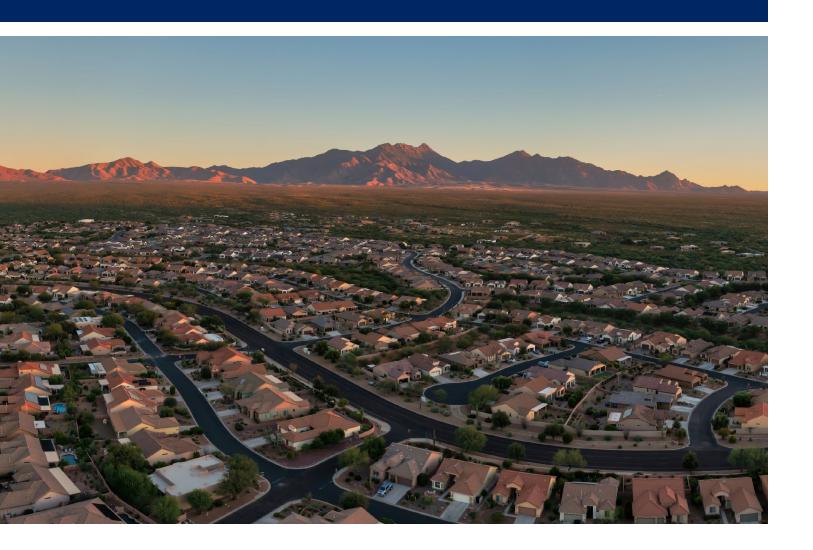


RESNET: A Primer Board Briefing Manual



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Residential Energy Services Network, Inc.

P.O. Box 4561

Oceanside, CA 92052-4561

https://www.resnet.us

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About RESNET

What is RESNET?

The Residential Energy Services Network (RESNET) was founded in 1995 as an independent, non-profit organization to help homeowners reduce the cost of their utility bills by making their homes more energy and water efficient.

RESNET is a California registered membership, tax exempt, public purpose not-for-profit organization.

As well as developing the HERS® Index, $\rm CO_2e$ Carbon Index and the HERS $_{\rm H20}$ ® water efficiency Index, RESNET is also responsible for the national training and certification standards for HERS Raters.

RESNET is an American National Standards Institute (ANSI) accredited standard development organization.

To date over 3.6 million home's energy performance have been rated through RESNET's standards.

RESNET By-Laws

RESNET is governed by a set of By-Laws that was adopted by the RESNET membership in March 2012. The By-Laws are posted at https://www.resnet.us/wp-content/uploads/2017_RESNET_By_Laws_6-6-17.pdf

Services Provided

RESNET offers a suite of services aimed at improving the home energy performance for new and existing homes.

The legacy product is the Home Energy Rating System (HERS) Index for new and existing homes. The HERS Index is the industry's standard for measuring and labeling a home's energy performance. Over 300,000 homes are rated and issued a HERS Index Score annually.

The HERS_{H20} Index builds off RESNET's nationally recognized HERS Index to produce a whole house water efficiency rating for single-family and duplex homes by rating their indoor and outdoor water usage. The basis for HERS_{H20} is an ANSI standard known as ANSI/RESNET/ICC 850. The first version of this standard was published in the summer of 2020. The development of this standard is a collaboration between RESNET and the International Code Council. RESNET is a WaterSense Home Certification Organization (HCO) and HERS_{H20} is a WaterSense Approved Certification Methodology.

The $\mathrm{CO_2e}$ Index builds off the HERS Index and $\mathrm{HERS_{H20}}$ Index to produce a whole house carbon efficiency rating for new and existing homes by rating the carbon and other greenhouse gases to effect climate change. The basis of the $\mathrm{CO_2e}$ Index is ANSI/RESNET/ICC standard 301-2019. The development of this standard was guided by representatives of National Labs, the Consortium of Energy, the U.S. Department of Energy and the California Energy Commission.

As well as developing the HERS Index, RESNET is also responsible for the national training and certification standards for Raters. To qualify as a certified RESNET HERS rater, home energy professionals must first complete the required rigorous training and testing and then agree to abide by the RESNET Code of Ethics and Standards of Practice.

Organizational Culture

The basic foundation of RESNET's culture is that it is an independent, membership-based organization that promotes market-based initiatives to improve home energy performance in the U.S.

The key values of the organization are:

Independent of Governmental Funding – RESNET is supported through its services, accreditation fees and proceeds from its annual conference and events. It is not dependent on government grants.

Transparency in Decision Making Process – All of RESNET's decision making is transparent by postings on its website as well as direct e-mails and social media. All minutes of the RESNET Board are posted on the RESNET website. Board meetings are publicly announced and open to the public.

Involvement of Industry and Stakeholder Groups

 RESNET offers access to decision making by inclusion of industry representatives on its board of directors, standing committees and task forces. **Consensus Based Standards Development** – All amendments to RESNET standards must undergo a public review and comment process. Anyone is able to submit a standard amendment online.

Lean Staffing and Administrative Overhead – The enabling of industry and stakeholder involvement in the standing committees and task forces in decision making allows for a lean staff and low administrative overhead.

Highly Skilled and Dedicated Base of Home Energy

Raters – Certified RESNET raters are represented among the leading professionals of applied building science. RESNET assists in keeping up to date with the latest technologies, best practices and business development opportunities through a national conference, events, and webinars.

RESNET Vision Statement

The RESNET Board of Directors adopted the following vision statement:

A net zero energy residential sector by 2040

RESNET Mission Statement

The RESNET Board of Directors adopted the following mission statement:

To make the energy use of all homes transparent, thereby driving residential sector energy use toward net zero.

RESNET Goals and Priorities

Adopted by RESNET Board of Directors on September 20, 2021

RESNET Goals to Achieve Our Mission:

- Enhance RESNET and HERS Raters recognition as the Gold standard for testing, measuring and labeling home performance.
- Lead the path to net zero
- Maintain and enhance credibility of RESNET's Ratings. RESNET's energy performance, energy code compliance, water efficiency, and carbon reduction activities through comprehensive quality assurance oversight
- Grow Business Development Opportunities for HERS Raters
- Enhance existing and build new collaborations with allied groups leading to better building performance and reduced carbon emissions.
- Increase the percentage of new homes that receive a HERS Rating
- Increase the consistency of HERS software programs.
- Maximize the value that RESNET provides its members by understanding their needs, goals, and pain points and planning adjustments as necessary.
- Facilitate inclusion of energy, water and carbon performance into mortgage financing and real estate appraisals.

2022 RESNET Priorities:

- Maintain and enhance the RESNET National Registry as a tool for quality assurance, data for publicly traded housing industry's corporate Environmental, Social and Governance (ESG) reporting, research, and the monetizing of data.
- Enhance recognition of RESNET's Standards as the "Gold Standard" for inspecting, testing, and labeling a home's energy, water, and carbon performance.
- Maintain the credibility of RESNET's Ratings & HERS Raters accuracy and consistency through quality assurance oversight.
- Introduce new business opportunities for RESNET professionals.
- Grow the demand for HERS Raters' services through collaborations, communications, and advocacy.
- Continue to support the RESNET Software Consistency Committee.
- Develop a field manual for HERS Raters, RFIs and QAD's as a tool that allows them to easily and effectively understand RESNET's technical standards.
- Foster energy efficient affordable housing though a collaboration with Habitat for Humanity International.
- Position HERS Raters as the preferred "go-to source" for verification of IECC compliance for code officials and builders.
- Maintain the RESNET website the primary form of communication between RESNET and its stakeholders.
- Improve water efficiency of homes via the RESNET water efficiency standard & HERS_{H20} program delivery.
- Build cohesion in the HERS Industry through the annual RESNET Building Performance Conference.
- Promote the use of HERS Index scores for publicly traded builders' ESG (Environmental, Social, and Governance) accounting and reporting.
- Create a Carbon Rating Index to be reported as part of the HERS certification report.
- Maintain RESNET financial & management integrity and sustainability.

RESNET Membership Structure

As a membership based not-for-profit organization, a key strength of RESNET is its members. RESNET has nine categories of membership:

- Accredited Providers (Rating, Rater Training and HERS Software)
- HERS Rating Companies
- Energy Smart Builders
- Contractors

- Suppliers Advisory Board
- Water Efficiency Rating Index Advisory Board
- Appraiser Organization
- Building Code Official Organization
- Associate Members

Each membership category elects its representatives to the board.

RESNET Key Stakeholders

RESNET relies on working with the rating industry, the housing industry and others to further its mission and goals. The relationships with these organizations are critical in creating a market for high performance homes. These relationships are not based on funding but rather on opening the market for trained and certified RESNET professionals.

These stakeholder groups include:

Home Energy Raters, Rating Field Inspectors (RFIs), Energy Modelers, Rating Companies, and Providers – The over 2,900 certified RESNET HERS Raters and RFIs working in over 500 HERS Rating Companies, and over 100 Providers represent the key infrastructure of the organization.

Home Building Industry – Not only are home builders a key end user of rating services but they are critical in marketing the HERS Index Score to consumers. They also play a critical role in advocacy at the local, state, and national levels

Program Sponsors – Utilities across the nation rely upon RESNET standards for the testing and certification of a home's energy performance for residential public benefit programs.

Building Code Officials – Over 300 state and local code jurisdictions have added a HERS Index Score option to their energy code. RESNET and the International Code Council have entered a collaboration to make HERS Raters the go-to option for verification of code compliance.

Real Estate Industry – RESNET is in partnership with the Appraisal Institute to provide the outreach and tools for appraisers to consider a home's HERS Index score into the appraisal.

Utilities – Utilities across the nation rely on certified RESNET HERS Raters and the HERS Index for their new homes' incentive programs.

Environmental Protection Agency (EPA) – EPA's ENERGY STAR for new homes relies upon certified home energy raters and RESNET quality assurance process as the basis for its program. In 2020, RESNET was recognized by EPA as the first ever ENERGY STAR HCO for the Residential New Construction Program. In addition, RESNET is the first EPA WaterSense Home Certification Organization

U.S. Department of Energy (DOE) – The DOE Net Zero Energy Home Program is an important "proving ground" for the design and construction of net zero energy homes. DOE uses the RESNET HERS Index in measuring the performance of homes participating in the program.

Green Home Initiatives – Led by the USGBC LEED for Homes Program and the NAHB Green Building Program, green home initiatives are using the RESNET HERS Index to measure points for high energy performance homes.

Contractors – Contractors play a critical role in the construction of high-performance homes.

RESNET Business Plan

In 2004 the board adopted a policy of being self-sufficient on an ongoing basis without relying on government grants or contracts. Through this effort RESNET has been able to meet 100% of its operation through accreditation/ membership fees, testing fees and its income through its annual conference.

Currently there are over 2,900 HERS raters and RFIs in all 50 states that have been certified through RESNET's standards. In 2021 over 300,000 homes in the U.S. were rated and issued a HERS Index Score.

RESNET's economic success is based upon the business success of its raters and HERS Rating Providers. RESNET's income flow is based upon the number of homes a rating provider rates. The more ratings conducted, the more income RESNET receives. RESNET's fundamental business plan is to continue to grow the rating industry by creating more demand for the services.

RESNET Board of Directors

Introduction to the RESNET Board

The primary responsibilities of the RESNET Board of Directors are:

- Maintain strategic vision of the organization
- Fiduciary oversight of the organization
- Governance oversight of organization's compliance to the RESNET By-laws, the laws and regulations of the State of California and the IRS rules for (501)c3 organizations

Strategic, Fiduciary and Governance Responsibilities of the RESNET Board

Following are descriptions of the strategic, fiduciary and governance responsibilities of the RESNET Board:

Strategic

The RESNET Board sets the strategic direction of the organization by adopting the RESNET strategic plan and setting annual priorities.

Fiduciary

The board is responsible for the financial health of the organization by setting the annual budget, reviewing of the monthly financial statements, and receiving the annual financial compilation and independent financial audit.

Governance

The board responsibilities to maintain governance oversight is as follows:

- Amend By-laws
- Amend Articles of Incorporation
- Hire and fire Executive Director
- Entering into debt over \$5,000.00
- Disband the Organization

To maintain the board's focus on its strategic, fiduciary and governance responsibilities, the RESNET By-laws and Board policies have delegated the operational authority to the RESNET Executive Committee (elected by the board), the RESNET Executive Director (appointed by the board) and the RESNET Standing Committees (established by the board). This frees the board from being bogged down by day-to-day operational and management issues.

Board Meetings

Due to the geographic diversity and large number of board members, the RESNET Board conducts most of its business by electronic ballots.

The RESNET Board has quarterly meetings with two held virtually and two face-to-face meetings:

- Spring board meeting
- Fall board meeting

Board Electronic Voting Procedures

The Board has adopted the following procedures for electronic balloting:

- RESNET staff will send ballot and supporting information electronically to board members. A board member has 10 days to vote.
- A board member can vote yes, no or abstain.

 Abstained votes are counted for quorum purposes. A no vote must include a reason why a negative vote was cast.
- If a member (or members) votes in the negative on an electronic ballot and provides reason(s) for their vote, a reconsideration ballot will be circulated specifying the reason(s) for the negative ballot(s) allowing all members a single opportunity to change their original vote. Members shall be given a minimum of five (5) working days to respond to the reconsideration ballot. If members do not respond to the reconsideration ballot within the allotted time, their original vote shall stand.

Board Membership

The RESNET Board members are representatives of the membership category that elected them.

RESNET Board members have staggered two-year terms and are eligible to run for re-election by their membership category.

Following are the current members of the RESNET Board of Directors:



Jacob Atalla *KB Home Water Efficiency*



Jim AmorinAppraisal Institute
Appraiser



David Beam Insulate America Contractor



Lindsey EltonEco Achievers
HERS Rating Company Representative



Philip FaireyFSEC Energy Research Center
Provider



Sandy Gallo TopBuild Provider



Matt Gingrich Energy Diagnostics Rating Company



Emelie Cuppernell GlitchPerformance Systems Development
Provider



David GoldsteinNational Resource Defense Council
Associate Member



John Hensley *Building Performance Solutions Provider*



Kathy HowardBurgess Construction Consultants, Inc.
Provider Representative



Mark JohnsonInternational Code Council
Code Representative



Cy Kilbourn *Ekotrope Provider*



Abe Kruger SK Collaborative Rating Company



Chris McTaggartBER
Provider



Curt Rich *NAIMA Suppliers Advisory Board*



Jonathan Risch ARCXIS Provider Representative



Brian ShanksBeazer Homes
Production Builder



Clayton Traylor Leading Builders of America Production Builder

RESNET Board Executive Committee

The RESNET By-Laws defines the RESNET Board Executive Committee as being composed of the officers of the board:

- Board President
- Board Vice President
- Board Secretary
- Board Treasurer
- Immediate Past Board President

Board Officer Elections take place at the February Board meeting each year.

The 2022 members of the RESNET Executive Committee were:

- John Hensley, Board President
- Mark Johnson, Board Vice President
- Philip Fairey, Board Secretary
- David Beam, Board Treasurer
- Matt Gingrich, Immediate Past Board President

Board officers have single year terms. The president of the board can only serve two consecutive terms.

The executive committee provides the operational oversight of the RESNET Executive Director and ensures that the annual priorities of the organization are met.

Section 4.02 of The RESNET By-Laws defines the executive committee responsibilities as, "shall possess and may exercise all the powers granted to the Board of Directors, except the power to amend the Articles of Incorporation or Bylaws, approve amendments to the RESNET Standards, approve the annual operating budget, and to in-debt the Corporation in an amount above \$5,000.00."

Any decision made by the Executive Committee can be overturned by a majority vote of the full Board of Directors at a regularly scheduled or special Board meeting.

Section 6.02 of the RESNET By-Laws provides that, "The Executive Committee shall establish the compensation of the Executive Director."

The Executive Committee also conducts the annual evaluation of the executive director.

RESNET Executive Director

Section 6.02 of the RESNET By-Laws defines the responsibilities of the RESNET Executive Director as: "conduct the day-to-day business of the Corporation under the direction of the Board of Directors. Such direction shall be provided through the Executive Director's job description, the Corporation's budget, and direction provided by the Executive Committee.

The Executive Director shall serve as ex-officio, non-voting, member of the Board of Directors and Executive Committee. Consistent with the direction provided by the Board of Directors, the Executive Director may enter into contracts, hire and supervise staff, sign checks and generally communicate on behalf of the Corporation."

The RESNET Executive Director is Steve Baden.

RESNET Staff



Steve BadenExecutive Director
sbaden@resnet.us



Cardice HowardDeputy Director
cardice@resnet.us



Emma Bennett
Standards Development and Events Manager
emma@resnet.us



Faye BerrimanController
fberriman@resnet.us



Valerie Briggs Communications Director valerie@resnet.us



Carl Chidlow *RESNET Washington Representative*



Rick Dixon Standards Manager rick@resnet.us



Christine DoQA Data Analytics Administrator christine@resnet.us



Scott DoyleTechnical Director, Quality
Assurance & Training
scott@resnet.us



Laurel Elam
Director of Quality Assurance
Administration and Standards
laurel@resnet.us



Billy Giblin QA Field Specialist billy@resnet.us



Clara Hedrick Administrative Assistant clara@resnet.us



Neal Kruis Energy Modeling Director



Ryan MeresPrograms Director
ryan@resnet.us

RESNET Standards

A key function of RESNET is to set the standards of quality in building energy performance. RESNET is accredited by the American National Standard Institute (ANSI) as a Standards Development Organization.

RESNET has two sets of standards:

- ANSI Approved National Consensus Standards
- RESNET Non-ANSI Standard "Mortgage Industry National Home Energy Rating Standards"

The RESNET Board has adopted procedures for its standard development activities:

■ RESNET ANSI Standards Development Policy and Procedures Manual posted at https://www.resnet.us/wp-content/uploads/archive/resblog/2017/10/RESNET_SDO_Procedures.pdf

- RESNET Non-ANSI Standards Development Policy and Procedures Manual posted at https://www.resnet.us/wp-content/uploads/Non-ANSIRESNET-Procedures_V1.2_11.7.19.pdf
- In order to maintain its status as a Standards Development Organization, the RESNET Board of Directors must delegate its standard development activities to a balanced Standard Management Board.

The RESNET Standard Management Board's purpose is to oversee the maintenance of the RESNET ANSI and Non-ANSI standards and amending the standards. The chairman of the Standards Management Board is Philip Fairey of the Florida Energy Research Center. Members are listed at https://www.resnet.us/about/standards/committees/standards-management-board/

The RESNET Standard Management Board has established the following Standard Development Committees:

Standards Developments Committee 200 Instruction, Assessment and Certification

The RESNET Standards Development Committee 200 is responsible for oversight of RESNET's education, training, assessment, and certification standards. The members are selected and approved by the Standards Management Board. Sharla Riead of the Accurate Rater Network serves as the committee chair. Members are listed at: https://www.resnet.us/about/standards/committees/standards-development-committee-200/

Standards Developments Committee 300 Technical

This committee is responsible for oversight of the RESNET technical standards, with members selected and approved by the Standards Management Board. Gayathri Vijayakumar of Steven Winter Associates serves as the committee chair. Members are listed at: https://www.resnet.us/about/standards/committees/standards-development-committee-300/

Standards Development Committee 900 Quality Assurance

The RESNET Standards Development Committee 900 is responsible for oversight of RESNET's quality assurance and sampling technical standards.

The members are selected and approved by the Standards Management Board. John Hensley of Building Performance Solutions, LLC serves as committee chair. Members are listed at: https://www.resnet.us/about/standards/committees/standards-development-committee-900/

Standards Development Committee 1100 Water Rating Index

The RESNET Standards Development Committee 1100 is responsible for oversight of the RESNET Water Rating Index technical standards. The members are selected and approved by the Standards Management Board. Jacob Atalla of KB Home serves as committee chair. Members are listed at: https://www.resnet.us/about/standards/committees/standards-development-committee-1100/

RESNET Standing Committees and Task Forces

RESNET Standing Committees

To better achieve its goal of setting the standards for quality, the RESNET Board of Directors has established standing committees. Each committee's purpose is to provide program policy and implementation recommendations. The chairs of the committees are appointed by the board. Members of committees are volunteers and are appointed by each committee's chairman.

The following are the RESNET standing committees:

RESNET Accreditation Committee

The RESNET Accreditation Committee is responsible for the oversight of RESNET's accreditation application review process and accreditation procedures. Abe Kruger serves as the chair of the committee. For a listing of committee members click on https://www.resnet.us/about/standards/committees/accreditation-committee/

RESNET Ethics and Appeals Committee

The RESNET Ethics and Appeals Committee is responsible for review and determination of quality assurance appeals and ethics violations. Chris McTaggart is the chair of the committee. Members are listed at https://www.resnet.us/about/standards/committees/ethics-and-appeals-committee/

RESNET Software Consistency Committee

The Software Consistency Committee was formed by the RESNET Board as part of a mechanism by which RESNET can improve consistency of HERS Index scores and modeled energy consumption (based on the RESNET/ICC ANSI Standard 301) among RESNET accredited HERS Rating Software Tools and enhance accreditation testing parameters. Neil Kruis is the chair of the committee. Members are listed at: https://www.resnet.us/about/standards/committees/software-consistency-committee/

RESNET Working Groups

RESNET also relies upon temporary working groups aimed at specific subjects identified by the RESNET Board or Executive Committee.

A working group's main responsibilities are to develop initiatives and recommend amendments to RESNET standards.

Working group members include a broad representation of stakeholders of RESNET standards and services.

The current working groups established by the RESNET Board are:

Creating New Business Opportunities for HERS
Raters While Diversifying RESNET Revenues - The
charter of this working group is to develop a policy
recommendation to the RESNET Board on how to
create new business opportunities for HERS Raters
while diversifying RESNET revenues. The working
group will define what new opportunities exist and
how to position raters and RESNET to take advantage
of them. John Gillett serves as the chairman of the
working group.

Load Flexibility Task Group - The charter of the task group is to incorporate the time varying rates of greenhouse gas emissions into HERS ratings to incentivize technologies that can shift load to periods when the electricity grid is powered with cleaner energy sources. The task group is co-chaired by Neal Kruis of Big Ladder Software and David Goldstein of the Natural Defense Council.

RESNET Suppliers Advisory Board

Energy efficient and renewable energy product suppliers play a critical role in improving the energy performance of homes. RESNET sees the industry's suppliers and manufacturers as a key strategic partner. To give suppliers a voice in RESNET and to benefit from the industry's perspective, RESNET has created a RESNET Suppliers Advisory Board.

The purpose of the RESNET Suppliers Advisory Board is to provide an opportunity for suppliers to better understand RESNET; network with other suppliers, customers, and HERS raters; and to provide supplier input to the RESNET Board of Directors.

Curt Rich of the North American Insulation Manufacturers Association is the chair of the RESNET Suppliers Advisory Board.

2022 RESNET Suppliers Advisory Board members are:

- APA The Engineered Wood Association
- Aprilaire
- Maverick Warranties & Insurance
- CertainTeed Insulation
- Covestro, LLC
- DuPont Building Innovations
- Johns Manville
- North American Insulation Manufacturers Association
- Owens Corning
- Panasonic Eco Solutions
- Retrotec Inc.

RESNET Budget

Total Projected Income

Annually the board approves a budget to fund the organization's operation and services. The following is the 2022 budget:

\$2,970,000

2022 Projected Income	
RESNET Registry Fees	\$2,025,000
RESNET Conference	\$250,000
Testing Fees	\$250,000
Rater Provider Accreditation Fees	\$166,000
Suppliers Advisory Board Memberships	\$120,000
All Other Provider Fees	\$63,000
Membership Fees	\$46,000
RESNET Registry Income	\$20,000
Interest Income	\$30,000
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RESNET 2022	Budget
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Payroll \$1,350,000
Executive Director - Steve Baden
Deputy Director - Cardice Howard
Accreditation and Quality Assurance Director – Laurel Elam
Communications Director - Valerie Briggs
Programs Director – Ryan Meres
Technical Director, Quality Assurance and Training – Scott Doyle Senior
Controller – Faye Berriman
Quality Assurance Field Specialist—Billy Giblin

Professional Services

\$995,000

RESNET Standards Manager

Energy Modeling Director

RESNET Conference and Meeting Coordinator

Database Manager

Government Relations

Hosting, Maintenance and Support of Servers

Registry Support and Maintenance

RESNET Web Site Maintenance

Marketing and Advocacy

Financial Audit

- IT Service Support
- Professional Employer Organization (PEO)

Miscellaneous Contractual Support

RESNET Test Support

General Administrative Support

 Travel
 \$ 120,000

 RESNET Conference
 \$ 310,000

 Other
 \$183,000

Key RESNET Board Policies

The board has adopted a set of policies governing board and RESNET staff activities. The policies manual is posted on the RESNET web site at https://www.resnet.us/wp-content/uploads/RESNET_Policies_and_Procedures.pdf