



STATE OF RHODE ISLAND
**ENERGY EFFICIENCY &
RESOURCE MANAGEMENT COUNCIL**

MEETING AGENDA

Thursday, January 14, 2016

3:30 PM - 5:30 PM

Conference Room B, 2nd Floor

Department of Administration, One Capitol Hill, Providence, RI

1. Call to Order

2. Approval of December Meeting Minutes

3. Executive Director Report (10 min)

4. Executive Committee Report (10 min)

5. Policy and Planning Issues

a) Finance Update (20 min)

Alex Hill from Dunsky Energy Consulting will present via phone a condensed version of the kick-off meeting presentation, which will include a breakdown of Dunsky's scope of work as well as an update on preliminary assignments undertaken.

b) Status Report on 2018-2020 Savings Targets Process (10 min)

The consultant team will provide an update on the process and progress to establish savings targets for the 2018-2020 period.

c) PUC Rate Design Docket Proceeding Update (10 min)

The consultant team and legal counsel will update the Council on recent activities related to the rate design docket.

6. General Updates on Energy Efficiency Programs and System Reliability Procurement

a) Presentation on Energy Expo Planning (20 min)

Representatives from the RI Builders Association will present on planning progress for the upcoming Energy Expo at the RI Home Show, which will be held March 31-April 3, 2016.

b) Presentation on Building Labeling Work (20 min)

Becca Trietch from the Office of Energy Resources will present a summary of the recent building labeling efforts she has been leading, including residential and commercial sectors.

7. Council Business

a) Vote on Final 2016 Consultant Team Budget and Scope of Work (10 min)

The consultant team will present an updated 2016 budget and scope of work based on recommendations from the Council and the Executive Committee for Council consideration and vote.

b) Vote on Final 2016 EERMC Budget (10 min)

The Council will be asked to vote on the final 2016 EERMC budget.

8. Public Comment

9. Adjournment



STATE OF RHODE ISLAND
**ENERGY EFFICIENCY &
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MEETING MINUTES

Thursday, January 14, 2016

3:30 - 5:30 PM

Conference Room B, 2nd Floor

Department of Administration, One Capitol Hill, Providence, RI

- Members Present:** Abigail Anthony, Joe Cirillo, Roberta Fagan, Marion Gold, Jennifer Hutchinson, Michael McAteer, Shigeru Osada, Chris Powell, Betsy Stubblefield Loucks, Karen Verrengia, Diane Williamson
- Members Absent:** H. Robert Bacon, Joe Newsome
- Consultants Present:** Mike Guerard, Scudder Parker
- OER Staff Present:** Ryan Crowley, Danny Musher, Rachel Sholly
- Others Present:** Leah Bamberger, Michael Baer, Brian Buckley, Kat Burnham, Craig Johnson, Chris Kearns, Mark Kravatz, Angela Li, Danny Musher, Jeremy Newberger, Laura Rodormer, Brigid Ryan, Rob Sherwood, Rachel Sholly, Becca Trietch, Chon Meng Wong

1. Call to Order

Chairman Chris Powell called the meeting to order at 3:35 PM.

2. Approval of October Meeting Minutes

Joe Cirillo made a motion to approve the December meeting minutes. Karen Verrengia seconded and all approved.

3. Executive Director Report

Rachel Sholly gave the Executive Director report on behalf of Commissioner Marion Gold of the Office of Energy Resources (OER). She noted that there are three term expirations for sitting members of the council. The expiration date is April 1, 2016. Commissioner Marion Gold has confirmed that Abigail Anthony and Betsy Stubblefield Loucks are both interested in continuing to serve. Commissioner Gold will reach out to Joe Newsome to determine his interest. There are also two newly created seats to fill – one for large nonprofit institutional and another for small nonprofit institutional. Anyone with recommendations should reach out to Commissioner Gold. Ms. Sholly closed by noting that she will be giving a presentation on the Rhode Island Public Energy Partnership (RIPEP) at the February meeting and will make the written report available to council members.

4. Executive Committee Report

Chairman Powell briefed the Council on the plan to process data requests. The Executive Committee wishes to create a formal process for members to request energy efficiency data. This new process will be beneficial for new members. A draft form has been shared with Council members. Under the new process, requests can only be made by EERMC members. An effort will be made to respond to requests in a timely manner, but the Council will need to be mindful of the workload of the Consultant Team (C-team). Mike Guerard said feedback on the draft form is welcome. A tracking sheet for pending requests will be included in the meeting packets. Michael McAteer said private individual data will not be provided. Mr. Osada mentioned he is concerned that National Grid's discretion could supersede requests and he wants to know how members will be updated on the status of data request. Mr. Guerard said the tracking sheet is created for that purpose.

5. Policy and Planning Issues

a) Finance Update

Alex Hill from Dunsky made a presentation to the Council that served as an overview of Dunsky's scope of work and an update on assignments already undertaken. Mr. Hill identified three primary tasks that include (see PowerPoint). Chairman Powell asked how commercial PACE (C-PACE) will effect going from 24 to 60 months for large commercial. Mr. Hill said C-PACE is not directly impacting the program and the expansion in months is designed to allow a broader set of measures to be considered along with measures currently available. C-PACE broadens the marketplace. Ms. Anthony asked what are the near term milestones. Mr. Hill said milestones are linked to roll out of programs in RI. A report to the Council could be done in March. Mr. Guerard said the finance subgroup will meet before the Executive Committee meeting and the C-team will inform the group along the way. Ms. asked when does progress made on Dunsky report link up with savings targets. Mr. Guerard said where RIIB is with capital in 2018-2020 is influencing plans, decisions made moving forward.

b) Status Report on 2018-2020 Savings Targets Process

Mike Guerard said the memo for Council members highlights four major activities underway. Systems Integration Rhode Island (SIRI) related activity is currently most noteworthy for the Council. Scudder Parker asked if least cost procurement is going after efficiency, is it also focused on demand response and load control. The group has not included strategies that promote demand response and load control. Under an initial review by SIRI, least cost procurement encourages it in many ways and settings. The group considered new technologies to determine if they fit within the requirements of least cost procurement. Mr. Guerard added that the target process will require the C-team to work with the savings target subgroup. Additional studies might be needed and could influence the decision made on the C-team budget. Chairman Powell asked if capacity payments will be reviewed. Mr. Newberger said National Grid has begun to look at it.

c) PUC Rate Design Docket Proceeding Update

Jennifer Hutchinson confirmed that National Grid has withdrawn its rate design proposal. The Company must file a formal motion and the Commission would still need to open the proceedings to take public comment. A March 1st ruling from the PUC is still needed.

6. General Updates on Energy Efficiency Programs and System Reliability Procurement

a) Presentation on Energy Expo Planning

Lou Cotoia, Darren Jodoin, Freddy Gill and Cheryl Boyd of the Rhode Island Builders Association (RIBA) briefed the Council on the status of planning activities for the 2016 Energy Expo at the Home Show. Ms. Boyd reported that the energy expo has 70 vendors so far with 8 solar companies. Mr. Cotoia said new features of the show include a large solar tree house that is being built offsite by career tech students from across the state. After the show the tree house will live at the Providence Boys & Girls Club. Electrical students across Rhode Island are working with SunWatt Energy to complete the tree house. Cox Communications is doing a 600 square foot home technology showcase that will demonstrate how to manage energy in the home. The students will also be onsite to explain the installation to attendees. A solar showcase will be near the Cox section and will include solar panels and students on hand to educate guests on the display. Energy efficient home features will be included in the section. RIBA is educating the students to educate the public. Mr. Gill oversees the construction programs across the state for students. A total of 250-300 students are expected to participate. Rachel Sholly added that Michael McAteer and Marion Gold should soon schedule a visit to one of the participating schools. Mr. Jodoin reported that 7-8 weeks prior to the show \$100,000 in advertisements will air. Floor decals will direct guests to energy locations and vendors. There will be strong encouragement for guests to sign up for energy audits. A 45-page show program will feature information on energy efficiency and conservation. Governor Raimondo and Mayor Elorza will do a ribbon cutting to kick off the event, likely at the tree house. Promotion of the Energy Expo represents 25% of the Home Show's media marketing efforts.

b) Presentation on Building Labeling Work

Becca Trietch presented a summary of building labeling efforts lead by OER. Ms. Anthony noted that a label makes your energy efficiency more valuable. Mr. McAteer asked what the brokerage community thinks. Ms. Trietch said current OER initiatives are done on a voluntary basis and there is a growing demand. Mr. Parker noted the commercial market is much more difficult. In DOE grant it is limited to small and medium buildings. OER is investing money to develop different categories. Ms. Verrengia asked how OER is getting individuals to buy in and who. The program will mirror National Grids recruitment. RISE would be utilized to see what this element would add. Chairman Powell asked if delivered fuels will considered. Ms. Trietch said the audit would be included.

7. Council Business

a) Vote on Final 2016 Consultant Team Budget and Scope of Work

The consultant team presented an updated 2016 budget and scope of work based on recommendations from the Council and the Executive Committee for Council consideration and vote. Mr. Guerard said the major changes to the budget are the elimination of the COLA and the addition of 110 hours. The other change is the organization chart that has been updated to include Mark Kravatz. The proposed budget amount of \$775K is slightly under \$782K placeholder. **Mr. Cirillo made a motion to approve the consultant team budget. Seconded by Ms. Stubblefield Loucks. All approved.**

b) Vote on Final 2016 EERMC Budget

Chairman Powell said the only change is that \$290,000 is available at the Council's discretion for other projects or issues that might arise. **Ms. Verrengia made a motion to approve the 2016 EERMC budget. Mr. Cirillo seconded. All approved.**

8. Public Comment

Brigid Ryan noted that appraisals, relative to benchmarking, are an important component. Brian Buckley noted there is a trend in the region to include demand respond in energy efficiency plans. A super peak avoided cost study from Massachusetts could be a useful resource.

9. Adjournment

Mr. Cirillo made a motion to adjourn. Seconded by Ms. Verrengia. All approved. Meeting adjourned at 5:35pm.



RHODE ISLAND FINANCING ASSISTANCE EERMC Presentation

January 14, 2016



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DUNSKY TEAM



Alex Hill

- ▶ Leads financing program design and evaluation (CA, CT, Canada), authored the Dunsky Report to EERMC, background in commercial building sector



Jerome Bilodeau

- ▶ Experienced in the design, analysis and evaluation of energy policies and programs. MBA with background in finance, recent experience assisting National Grid in Nantucket



David McNeil

- ▶ A 20-year carrier working in the financing industry, including running leasing and specialized loan programs



Marina Malkova

- ▶ Performed best practice research and financing program design and evaluations (Canada, California, RI)



■ RI's Financing Goals

- ▶ Maximize cost-effective savings (LCP)
- ▶ Using rate-payer money effectively
- ▶ Distribute benefits broadly and equitably

■ Greater scale and deeper savings

- ▶ Engage hard to reach customers
- ▶ Shift the economy toward EE savings
- ▶ Opportunities in mature EE market
- ▶ Include low-income customers



GROW THE EE PIE...

- Integrated turn-key approaches
- Affordable loans
- Benchmark and measure impacts
- Evaluate and report

OBJECTIVES OF DUNSKY RETAINER



■ RIIB establish

- ▶ Filling some key financing GAPS with PACE and EFB

■ Remaining Report Results and Recommendations

- ▶ Mostly focus on how to assess the relative impact and effectiveness of existing programs: HEAT, OBF, etc.

■ 2016 Retainer Work

- ▶ Task 1: Contribute expertise to emerging financing programs
- ▶ Task 2: Follow-up on recommendation in 2015 Dunsky report
- ▶ Task 3: Contribute to oversight of National Grid C&I financing



TASK 1: FINANCING EXPERTISE FOR EMERGING PROGRAMS

Item 1. Efficient Building Fund

Item 2. C-PACE

Item 3. Residential PACE

Item 4. ... explore further options



Efficient Building Fund (EFB)

- ▶ Accepting applications until end of January 2016
- ▶ Municipal Lease may offer streamlined decision-making
- ▶ Currently has \$25M to disburse over three years

C-PACE

- ▶ December 2015: Contract with Program Administrator, target April 2016

Residential PACE

- ▶ On hold awaiting FHA guidance in 2016 regarding lien status

DUNSKY Input

- Reviewed program documents
- Assist to look for further opportunities
 - Capital sources
 - Increase impacts
 - EM&V (CA, ME, CT)
- Support PACE Working Group and EERMC representative
- Explore options to integrate with National Grid programs



TASK 2: FOLLOW-UP ON 2015 DUNSKY REPORT RECOMMENDATIONS

Item 1. Residential

Item 2. Commercial

Item 3. Institutional / MUSH

RESIDENTIAL RECOMMENDATIONS



A. Evaluations to assess the HEAT, CGF and PACE programs.

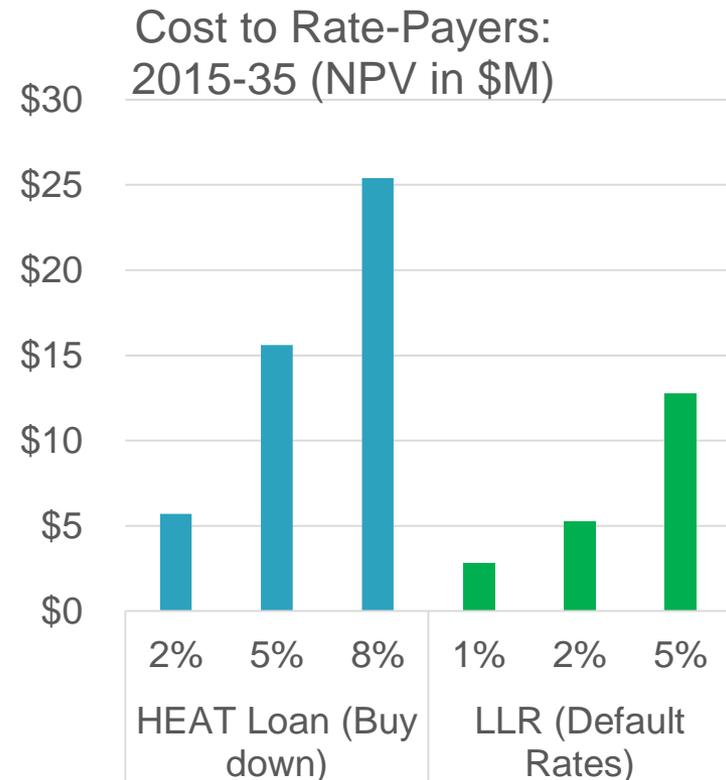
- ▶ Develop a clear strategy for PACE and HEAT to work together

B. Ensure broad access to programs

- ▶ Moderate incomes, self audits, broaden lender underwriting

C. Review HEAT 0% Loan Model

- ▶ 5% buy-down is expensive, little evidence 0% rate increases uptake.
- ▶ Consider alternative models (LLR)



COMMERCIAL RECOMMENDATIONS



	Average Loan Size	Maximum Incentive	Average Project Value	IOU cost per project
NGrid SB OBF	\$2,265	70%	\$7,550	\$6,547 (67%)
SBEA - CT Program	\$8,490	40%	\$14,151	\$4,920 (35%)

IMMEDIATE: Consistent year over year reporting of OBF balance sheet

PROCESS EVALUATION: NG underwriting process and loan administration

IMPACT EVALUATION: Evaluate OBF free-ridership and cost-effectiveness

■ **PROGRESS:** C-PACE in development, OBF reporting

■ **Next Steps:**

- ▶ OBF + C-PACE Implementation/ Coordination
- ▶ Elaborate OBF Reporting and EM&V Planning

MUSH RECOMMENDATIONS



- **Establish pool of funds for MUSH sector using low cost bonds issued by Clean Water Finance Agency (now RIIB)**

- **Establish long-term MUSH financing mechanisms**
 - ▶ EBF Formed: \$25M in funding for MUSH Sectors
 - ▶ Close collaboration with National Grid experts

- **Next steps**
 - ▶ Determine program effectiveness within MUSH decision-making
 - ▶ Seek out additional sources of funds



TASK 3: OVERSIGHT FOR NATIONAL GRID PROGRAMS

Item 1: Reporting and Evaluations

Item 2: Optimal uses of rate-payer funds

USE OF RATE-PAYER FUNDS



- Ensure that financing programs are well integrated into EM&V cycle
- Integrate financing into key 2016 EE planning reports: 2017-20 Targets and Least Cost Procurement
- How can future rate-payer money for financing best be applied?

	COMMERCIAL OBF	2013	2014	2015
SB	Fund balance (\$,000)	4,159	4,159	3,159
	Unallocated @ year end	38%	65%	50%
LCI	Injection (\$,000)	0	4,000	4,000
	Fund balance (\$,000)	8,980	9,980	14,980
	Unallocated @ year end	30%	51%	83%

2016 DELIVERABLES...



RESIDENTIAL

- ✓ MA HEAT Evaluation Review
- ✓ RI HEAT Evaluation Recommendations
- ✓ PACE – HEAT Integration
- ✓ R-PACE Design Input

COMMERCIAL

- ✓ C-PACE Design Input
- ✓ OBF-CPACE Integration
- ✓ OBF reporting EM&V recommendations

MUSH

- ✓ EFB Input and recommendations
- ✓ Assistance to seek funds
- ✓ Program EM&V recommendations

EERMC PLANNING

- ✓ 2017-2020 EE Targets Input
- ✓ Least-cost procurement fit
- ✓ Assess effective use of Rate-payer funds
- ✓ Others...

QUESTIONS?

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Memorandum

To: RI Energy Efficiency & Resource Management (EERMC)
From: EERMC Consultant Team (C-Team)
Date: January 12, 2016
Subject: 2016 Savings Target Goal setting update

Rhode Island Goal Setting Process

Rhode Island is one of the leaders in the nation with respect to high energy efficiency goals. Therefore, there are a very limited number of states that could be used for comparison purposes, and the final determination of goals should reflect the Rhode Island specific opportunities and conditions. The last full potential study completed in Rhode Island was in 2010 by KEMA, and is therefore of diminishing relevance for the years 2018-2020. The C-Team leveraged the KEMA Study to complete an assessment of potential in 2013 which was used to set the current three year goals. In order to set realistic achievable goals that meet the intent of the Least Cost Procurement (LCP) legislation, it will require multiple approaches. The following processes are proposed as base elements for the process:

- Trend Analysis
 - Historic and current Rhode Island energy efficiency program performance
 - The projected future trajectory based on past RI energy efficiency program performance
- Key Driver analysis
 - Increased potential for savings in RI from new or enhanced implementation approaches, technologies, outreach, incentives or other factors
 - Decreased potential for savings in RI from market saturation, code or standards changes, or other factors
 - Review of remaining applicability of KEMA study
 - SIRC-related potential impacts
 - e.g. Active Load Management and Strategic Electrification.
- Jurisdictional Comps
 - The basis for Program goals for other leading and neighboring states
 - Potential studies for other leading, comparable jurisdictions
- Stakeholder input
 - Via Collaborative
 - Input from Council members
 - Stakeholder input and forums

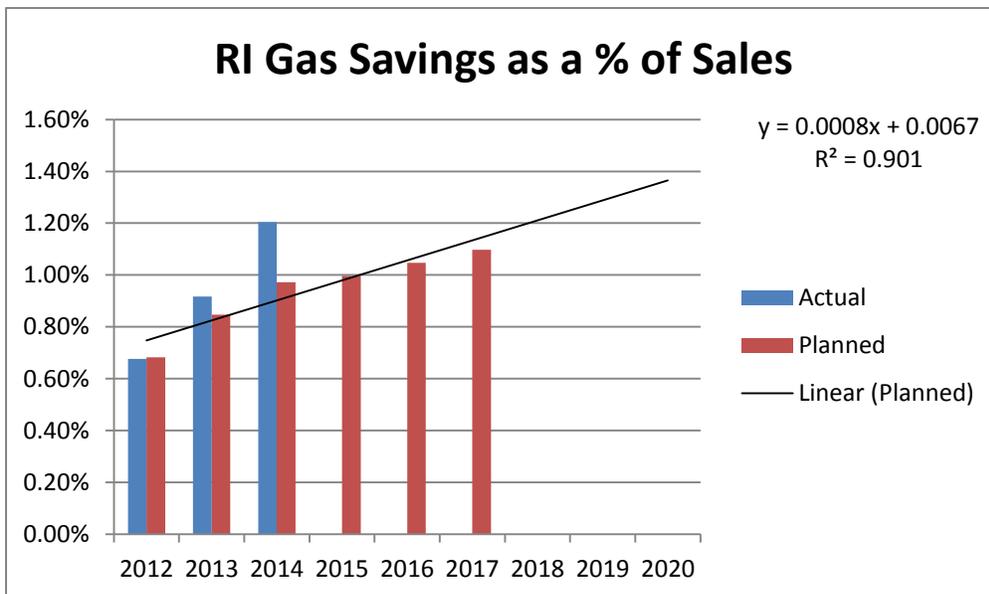
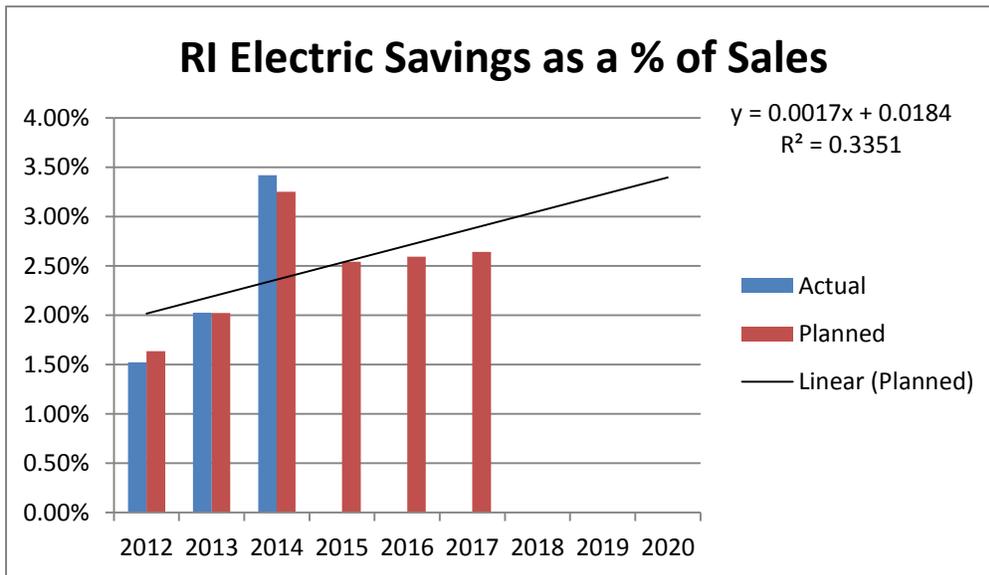
EERMC CONSULTANT TEAM



The information from the approaches outlined above will be synthesized to develop a set of recommendations.

Trend Analysis - Historic and Current Performance

Rhode Island has increased savings dramatically in the past few years, but the rate at which the goals have been increasing is slowing down. The charts below show past performance through 2014, and the next three year plan savings through 2017.



EERM CONSULTANT TEAM



A linear trend line could provide an indication of the upper bound of achievable savings, assuming that trends stay consistent, but should not be considered potential. The extraordinary achievement of 2014 pushes the electric trend line higher than the other years would merit, so that trend is not as useful as the gas trend line. Once this work begins, each segment can be investigated so that the trends for C&I and residential programs are examined individually.

Key Drivers - Increased and Decreased Potential

The C-Team will work with National Grid to identify areas where savings could increase or decrease, and this information will be used along with 2015 actual performance to inform the goal setting process. 2015 actual savings would be considered the baseline in this process.

There are pools of potential that could increase the rate of savings over current performance. These pools can be identified and quantified, and estimates can be made of how much potential could be realized in the next three year plan. For example, National Grid has recently removed a number of barriers for municipal customers to change streetlights to LED. In addition, the price for LED streetlight fixtures has continued to decline. The result is that there is significant potential savings from streetlights, and market forces have aligned to make it probable that this potential can be realized in the near future. C&I lighting is another area where there could be significant increases in savings from LEDs in that both linear LED lamps and LED troffer fixtures continue to decline in price. Customers with standard and high performance T8 lighting systems could both save energy by changing over to LEDs.

There is also the potential to increase savings by changing program approaches. For example, moving measures upstream may result in increased savings at reduced cost. National Grid in Massachusetts is planning to move a number of measures upstream, and these changes could also be beneficial for Rhode Island. Another source of increased savings could be from new programs such as Strategic Energy Management or C&I behavior.

There are also changes from codes and standards and other changes that will reduce the potential for savings. In addition, there may be markets that are close to saturation, and therefore have limited potential. For example, the screw in LED market may be exhausted in the next few years, thus reducing the potential for savings in the last years of the next three year plan. It is also possible that as the magnitude of savings increase, the cost of savings increase. Comprehensive and deeper savings tend to cost more. Because budgets are not unlimited in practice, the rate of savings acquisition and therefore the goals may be constrained by budget or rate impact concerns.

As a sanity check, the results of the benchmarking effort conducted as part of the RI PEP program could be examined. The average score of the benchmarked buildings could be used as an indicator of potential. Low benchmark scores would indicate more potential, and higher score would indicate that much of the potential in RI has been already realized.

EERMC CONSULTANT TEAM



Jurisdictional Comps - Goals, Achievement, and Potential for Comparable States and Territories

The C-Team has identified a number of potential studies that were completed in the past few years which will be informative in the Rhode Island goal setting process. These include studies for Vermont, California, New York, Delaware and Pennsylvania. In addition, a potential study completed by EPRI looks at regional potential throughout the United States, and could be scaled to be applicable to Rhode Island.

Although Rhode Island is a national leader in energy efficiency, there is a comparable high achieving state with multiple program administrators next door in Massachusetts. The C-Team will also review the C&I specific potential studies that were completed for National Grid, Cape Light Compact, Unitil, and Liberty, and determine to what extent they are applicable to Rhode Island. Massachusetts just set three year goals for the 2016-2018 timeframe, and the Massachusetts goals by individual PA will be considered as well.

Stakeholder Input & Forums

Input from key stakeholders will provide valuable information to help identify RI-specific areas of interest and opportunity. In January, the C-Team will develop a proposed schedule of activities to garner this input.

Energy Expo

A. Discussion of major features

1. Solar Tree House – (Boys & Girls Club of Prov)
2. Home Technology Showcase (Cox) - Product connections
3. Solar Showcase
4. Fortified Home / Construction Tech Exhibit

B. Educational Connection to CTE (Freddie Gill)

- Approximately 150 students engaged / 14 Schools
- PR starting soon – need rep from NGRID or OER

C. Marketing

- Presentation by PMC – TV/Radio/PR/ Web
- Special Signage
- Special floor decals
- Color coded show map / vendor call out
- Marketing focus on programs / audits /
- Audit and info Kiosks – T-Shirts for volunteers
- Show handouts / print
- Gov & Mayor to open show with NGRID, OER & CTE

D. Direct Sales – Bulbs

E. NGRID Booth – second location with RIBA

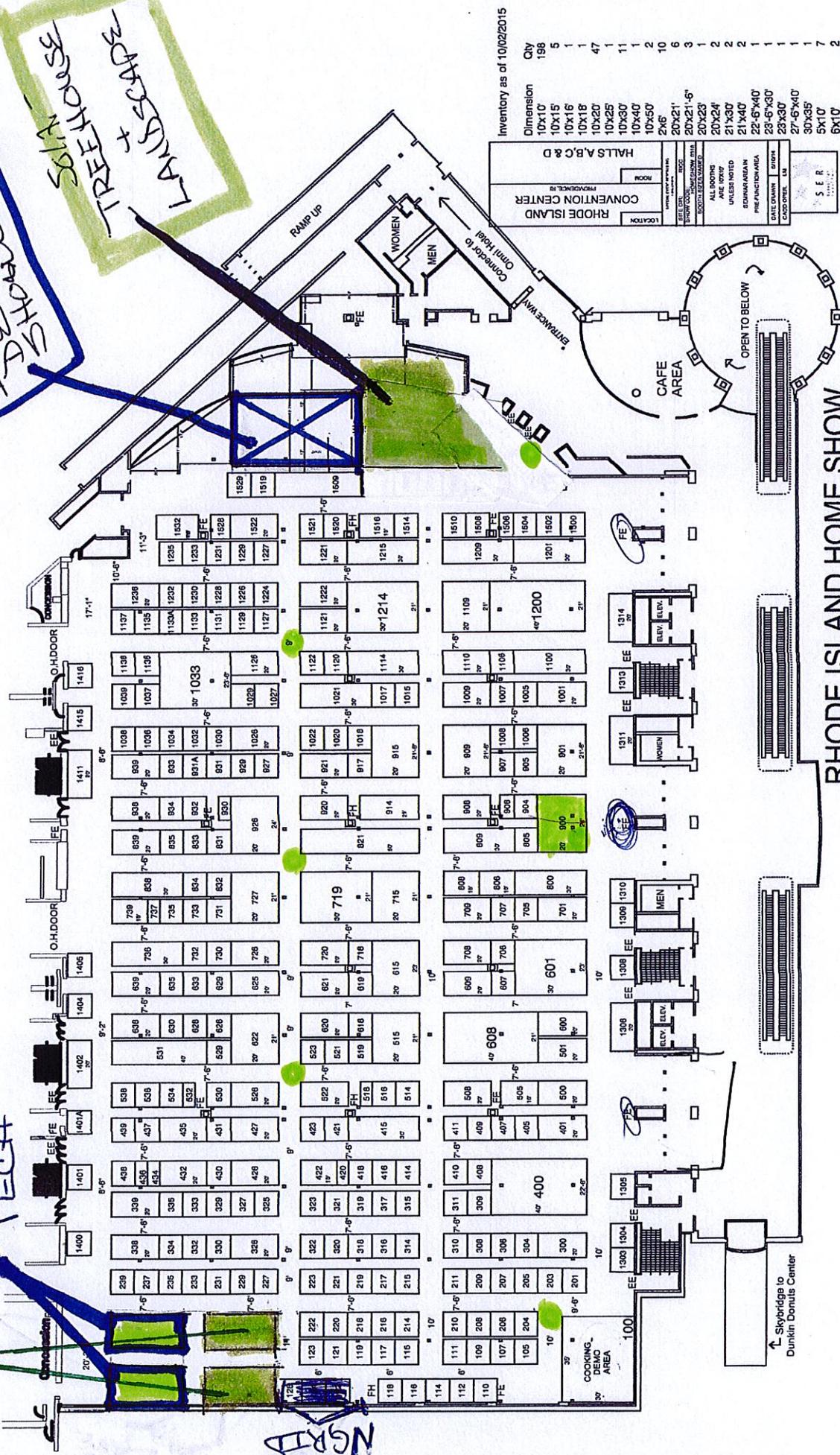
F. Seminars & Awards - pending

G. Jobs Fair – Residential Construction Workforce Partnership

SHOWCASE #1 - SOLAR
 SHOWCASE #2
 TECH

INTERIOR DESIGN CASE

SOLARHOUSE
 TREES + ESCAPE

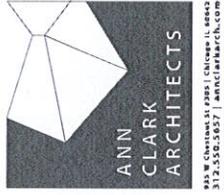


RHODE ISLAND HOME SHOW
 MARCH 31 - APRIL 3, 2016
 AT THE RHODE ISLAND CONVENTION CENTER
 "A Rhode Island Builders Association (RIBA) Show"

Inventory as of 10/02/2015

Dimension	Qty
10x10	198
10x15	5
10x16	1
10x18	1
10x20	47
10x25	1
10x30	11
10x40	1
10x50	2
2x6	10
2x8	6
20x21-6	3
20x23	3
20x24	2
21x30	2
21x40	2
22-6x40	1
23-6x30	1
23x30	1
27-6x40	1
30x35	1
5x10	7
6x10	2
8x10	1

Totals: 308



ANN CLARK ARCHITECTS

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RIBA 2016 HOME SHOW TREE HOUSE

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DATE:	05/27/2016
PROJECT NO.:	100000000
SCALE:	AS SHOWN
DESIGNER:	ANN CLARK ARCHITECTS
CLIENT:	ANN CLARK ARCHITECTS
PROJECT NAME:	RIBA 2016 HOME SHOW TREE HOUSE
PROJECT ADDRESS:	913 S. CHERRY ST. #301, CHICAGO, IL 60607
PROJECT TYPE:	RESIDENTIAL
PROJECT STATUS:	CONCEPT
PROJECT PHASE:	CONCEPT
PROJECT DESCRIPTION:	RIBA 2016 HOME SHOW TREE HOUSE
PROJECT CONTACT:	ANN CLARK ARCHITECTS
PROJECT CONTACT PHONE:	773.252.2957
PROJECT CONTACT EMAIL:	INFO@ANNCLARK.COM
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PROJECT CONTACT ADDRESS:	913 S. CHERRY ST. #301, CHICAGO, IL 60607
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PROJECT CONTACT CITY:	CHICAGO, IL
PROJECT CONTACT STATE:	IL
PROJECT CONTACT ZIP:	60607
PROJECT CONTACT COUNTRY:	USA
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PROJECT CONTACT HSN ID:	
PROJECT CONTACT IEC ID:	
PROJECT CONTACT UEN ID:	
PROJECT CONTACT VAT NO.:	
PROJECT CONTACT TAX NO.:	
PROJECT CONTACT REG. NO.:	
PROJECT CONTACT LIC. NO.:	
PROJECT CONTACT PERM. NO.:	
PROJECT CONTACT PLAN NO.:	
PROJECT CONTACT SECTION NO.:	
PROJECT CONTACT ELEVATION NO.:	
PROJECT CONTACT DRAWING NO.:	
PROJECT CONTACT SHEET NO.:	
PROJECT CONTACT TOTAL SHEETS:	
PROJECT CONTACT TOTAL DRAWINGS:	
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PROJECT CONTACT TOTAL SECTIONS:	

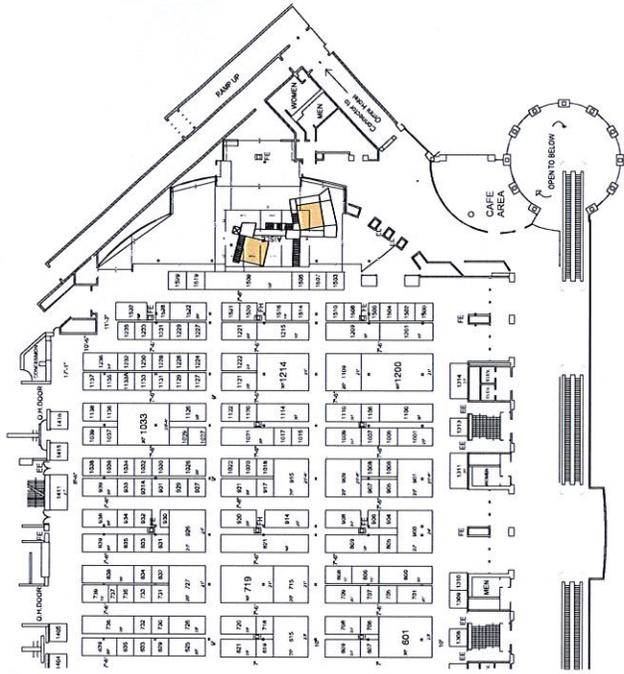
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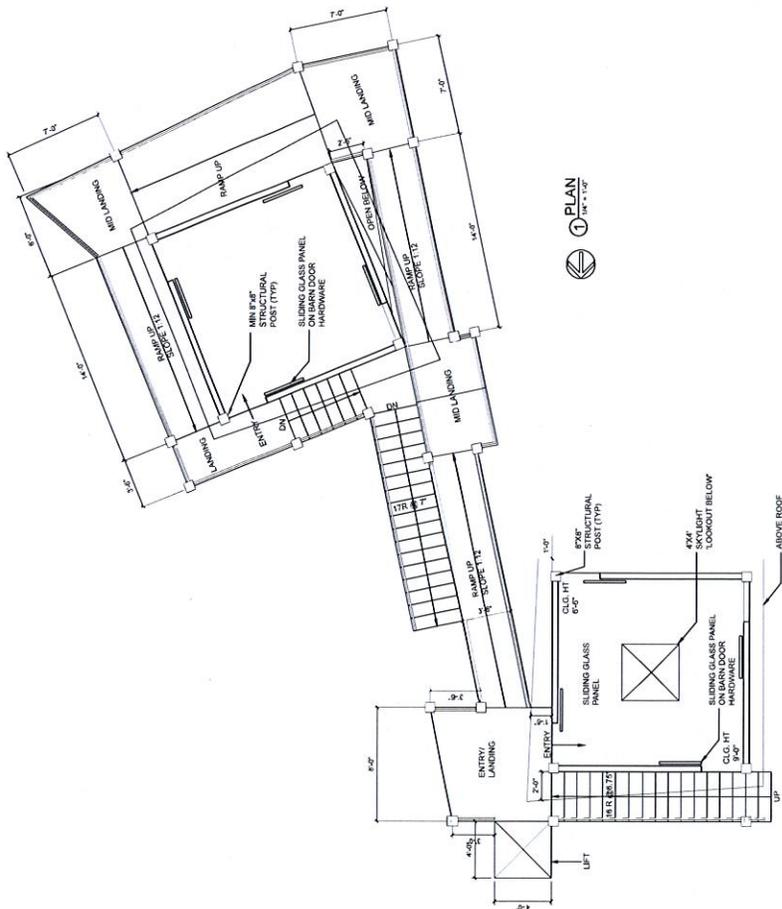
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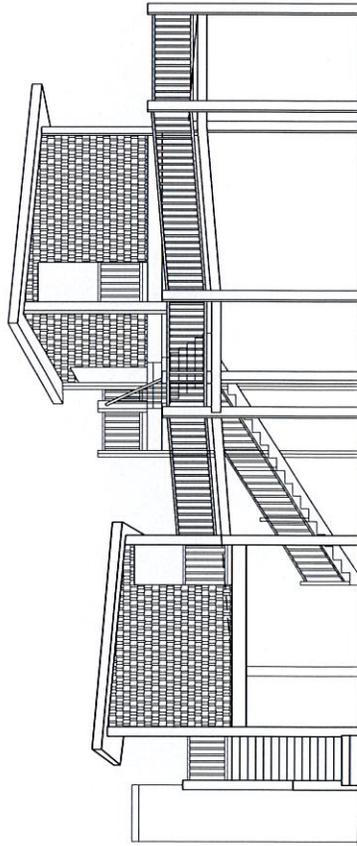
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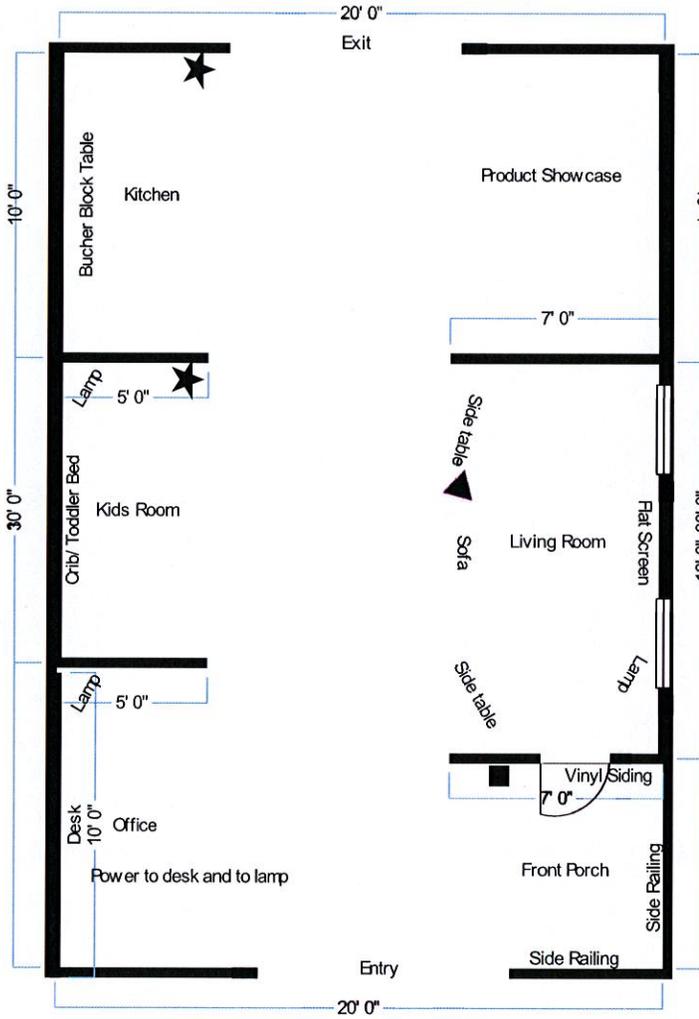
1 SITE PLAN
 1/8" = 1'-0"



1 PLAN
 1/8" = 1'-0"



1 ELEVATION
 1/8" = 1'-0"



Product Showcase:
 Two shelves across Top and Side wall (thigh and shoulder height)
 About 8 inches deep, angled down with lip on edge.
 Looking for feedback or other ideas from Lou & John

For Kitchen we will need:
 3 Outlets along back wall table height
 Indoor Camera - Ethernet & power outlet 6 inches down from ceiling (See symbol) ★

For Kids Room we will need:
 Indoor Camera - Ethernet & power outlet 6 inches down from ceiling (See symbol) ★
 Lamp - Power
 Cox Note:
 Smoke on top wall (nothing needed)
 Rug, toys, staging, curtains for faux window

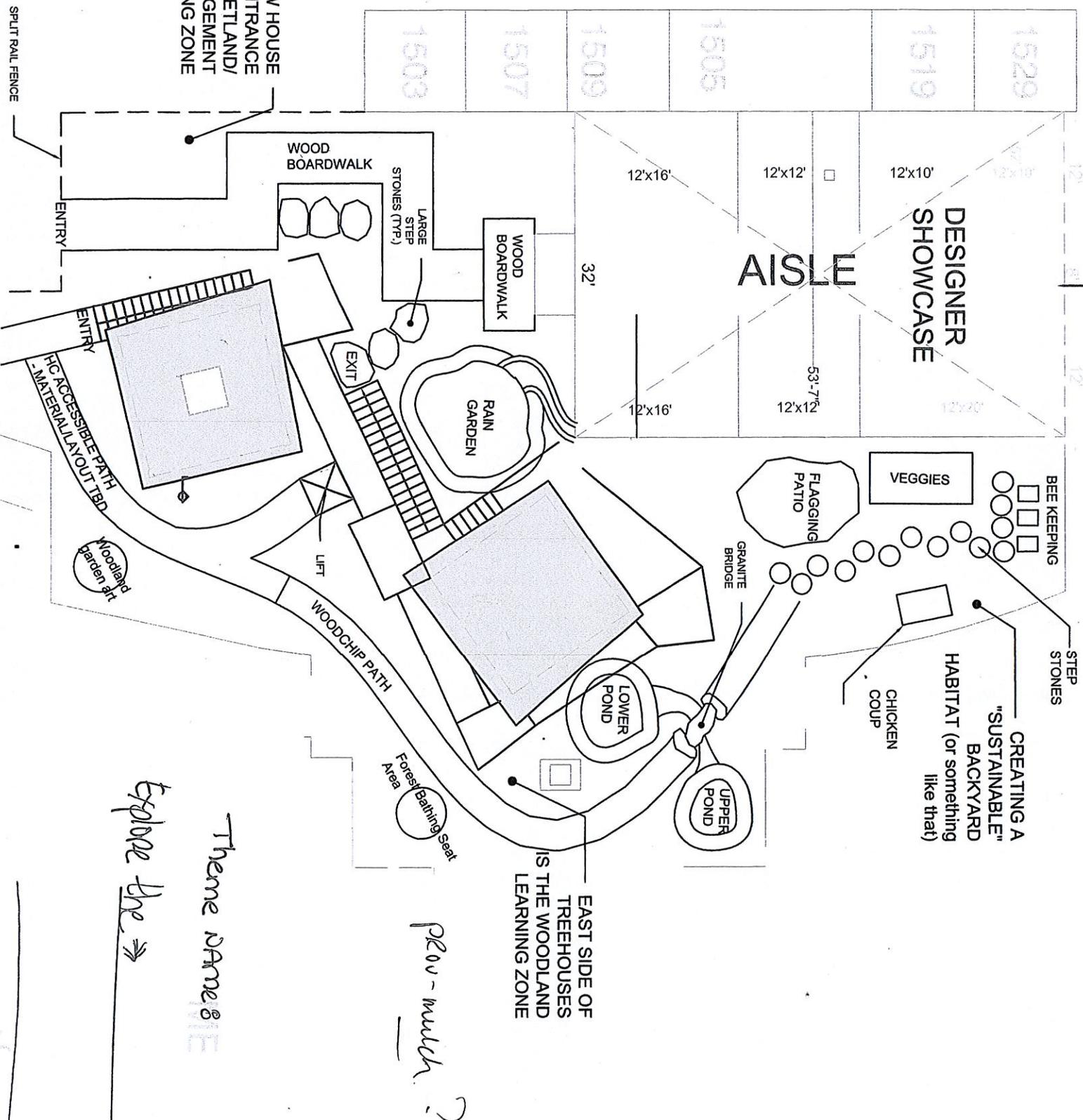
For Living Room we will need:
 Power outlet & Coax cable outlet behind Flatscreen
 All ethernet terminates (including treehouse) to the top side table (see Symbol) ▲
 Power near top side table for touch screen (see Symbol) ▲
 Power in bottom corner for lamp

Cox Note:
 Thermostat on 7ft wall (nothing needed)
 Smoke & CO2 on wall (nothing needed)

Create Faux Front Porch with railing and siding
 Installing CVR Camera will need:
 Ethernet & Electrical outlet (see Symbol) ■
 install top left, 6 inches down from ceiling

1500 1510 1514 1516 1520 1521 1522 20' 1529 1519 1505 1509 1507 1503

SHOW HOUSE
ENTRANCE
IS THE WETLAND/
WATER MANAGEMENT
LEARNING ZONE

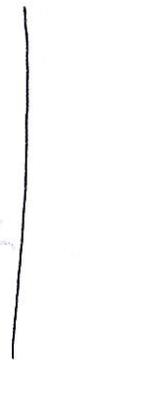


EAST SIDE OF
TREEHOUSES
IS THE WOODLAND
LEARNING ZONE

prev-mulch?

Theme names

Explore the





Residential Building Labeling

Becca Trietch



STATE OF RHODE ISLAND
**OFFICE OF
ENERGY RESOURCES**

What is Building Labeling?

- The best analogies: Miles per Gallon (MPGs) for cars and Nutrition Labels on Food
- In residential settings, asset scores can estimate the energy efficiency of a home when occupied by a “standard family”
- There are a few home energy scoring tools out there, but DOE’s Home Energy Score is free, easy, and is being piloted in several states (Connecticut, Vermont, Alabama, Arkansas, Colorado)

Nutrition Facts	
Serving Size 2/3 cup (55g) Servings Per Container About 8	
Amount Per Serving	
Calories 230	Calories from Fat 40
% Daily Value*	
Total Fat 8g	12%
Saturated Fat 1g	5%
Trans Fat 0g	
Cholesterol 0mg	0%
Sodium 160mg	7%
Total Carbohydrate 37g	12%
Dietary Fiber 4g	16%
Sugars 1g	
Protein 3g	
Vitamin A	10%
Vitamin C	8%
Calcium	20%
Iron	45%
* Percent Daily Values are based on a 2,000 calorie diet. Your daily value may be higher or lower depending on your calorie needs.	
	Calories: 2,000 2,500
Total Fat	Less than 65g 80g
Sat Fat	Less than 20g 25g
Cholesterol	Less than 300mg 300mg
Sodium	Less than 2,400mg 2,400mg
Total Carbohydrate	300g 375g
Dietary Fiber	25g 30g

EPA DOT Fuel Economy and Environment Gasoline Vehicle

Fuel Economy

26 MPG
combined city/hwy

22 city 32 highway

3.8 gallons per 100 miles

You save \$1,850
in fuel costs over 5 years compared to the average new vehicle.

Small SUVs range from 16 to 32 MPG. The best vehicle rates 99 MPGe.

Annual fuel cost \$2,150

Fuel Economy & Greenhouse Gas Rating (tailpipe only) **7**

Smog Rating (tailpipe only) **6**

This vehicle emits 347 grams CO₂ per mile. The best emits 0 grams per mile (tailpipe only). Producing and distributing fuel also create emissions. Learn more at fueleconomy.gov.

Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle gets 22 MPG and costs \$12,600 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at \$3.70 per gallon. MPGe is miles per gasoline gallon equivalent. Vehicle emissions are a significant cause of climate change and smog.

fueleconomy.gov Calculate personalized estimates and compare vehicles

Smartphone QR Code 



Why is it Important?

Market Transformation

- Allows buyers and sellers to “see” energy efficiency
- Knowledge is power- energy efficiency can begin to have a monetary value
- Valuable maintenance information- is it time to replace your furnace, appliances, etc?
- Education & Disclosure must go hand-in-hand with scores



On-Going Work

- DOE Initiatives: HES Program
- Other NE States:
 - CT: has added HEScores onto utility home performance offerings (started April 2015)
 - VT: EfficiencyVT goal to rollout HEScore offering statewide in 2016
 - MA: HomeMPG pilot
 - NYSERDA: National Labeling Group for commercial and multifamily
- NEEP- HELIX
- OER
- National Grid



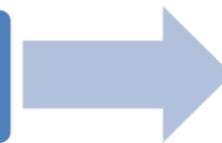
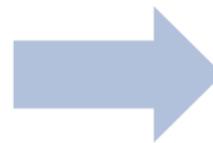
NEW TRAINING TOOL TO BROADEN POOL OF HOME ENERGY SCORE ASSESSORS IS AVAILABLE

DOE [announced](#) the release of the Home Energy Score Simulation Training. The tool provides free, targeted training and testing to individuals interested in providing the Home Energy Score. Read DOE's [announcement](#) for more information.

HOME ENERGY SCORES COMPLETED

3 1 9 7 0

As of January 3, 2016



STATE OF RHODE ISLAND
**OFFICE OF
ENERGY RESOURCES**

RI Current Status - Commercial

Commercial Building Labeling Working Group

- Work through education & disclosure issues
- Find ways to deliver buildings operational &/or asset scores

Applying for a DOE grant- application due Feb 1st

- Will pilot Asset Score delivery through National Grid commercial building programs
- Goal: to determine if Asset Scores can be cost-effective and if they increase energy savings
- Will also provide outreach and education about commercial building labeling
- Will research and create a roadmap for overcoming disclosure issues

RI Current Status - Residential

Residential Building Labeling Working Group

- Work through education & disclosure issues
- Also trying to find more ways to deliver home energy scores

National Grid will pilot providing Home Energy Scores in 2016 through the EnergyWise program

- The pilot aims to provide 100-200 labels
- Selling point/further impetus to install EE measures
- Potentially provide more data for the utility
- But we want these efforts to be cost effective & simple

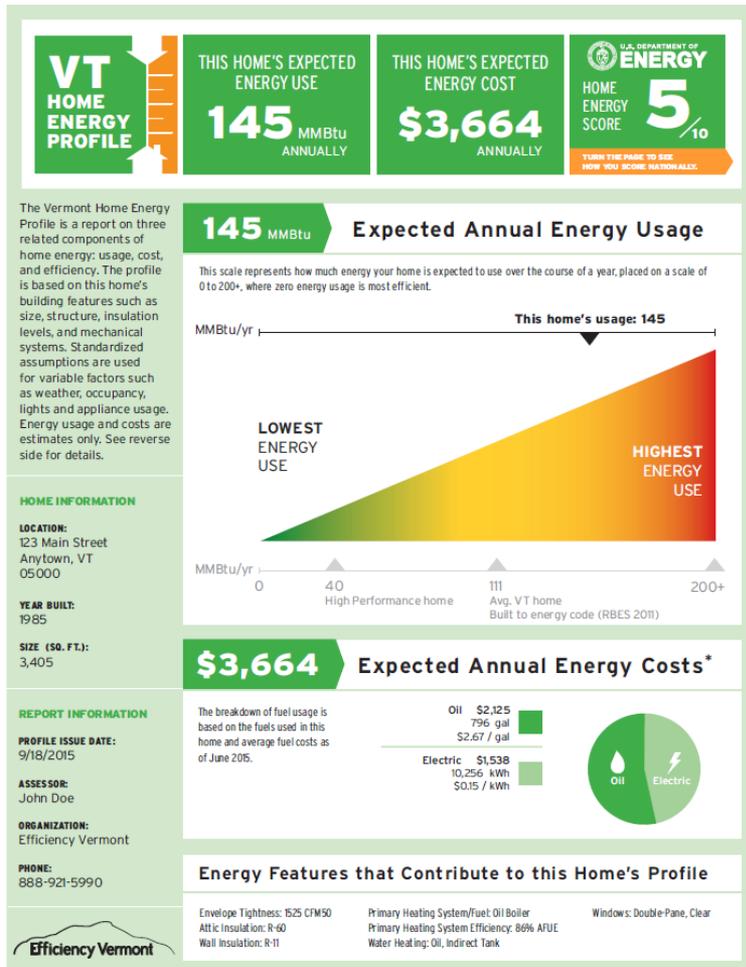
The Many Options

The screenshots show the following sections of the Home Energy Score report:

- Score Overview:** Home Energy Score of 7, with a potential score of 10. A 'Score with incentives' of 3 is also shown. The estimated annual energy cost is \$411. A progress bar shows the current score (7) out of 10.
- About this home:** A table of home characteristics including: Assessment date (7/16/2014), Address (12345 Main Street, Smithville, RI 02888), Year built (1978), Number of bedrooms (2), Number above ground level (2), Number below ground level (0), Condition of roof (Good), and Orientation (South).
- Energy features:** A table listing features and their scores: Insulation (4), Windows & doors (3), Heating & cooling (2), and Water heating (1).
- Systems:** A table listing systems and their scores: Heating (4), Cooling (3), and Water heating (1).

- Currently DOE's scoring tool produces a lengthy and unwieldy report
- There are also lots of different metrics that may be of value to customers
 - MMBTU/year
 - Costs per year
 - Carbon Footprint
 - Home Energy Score (1-10)
 - Recommended EE measures
 - Fuel type/usage breakdown
 - Key Energy Features

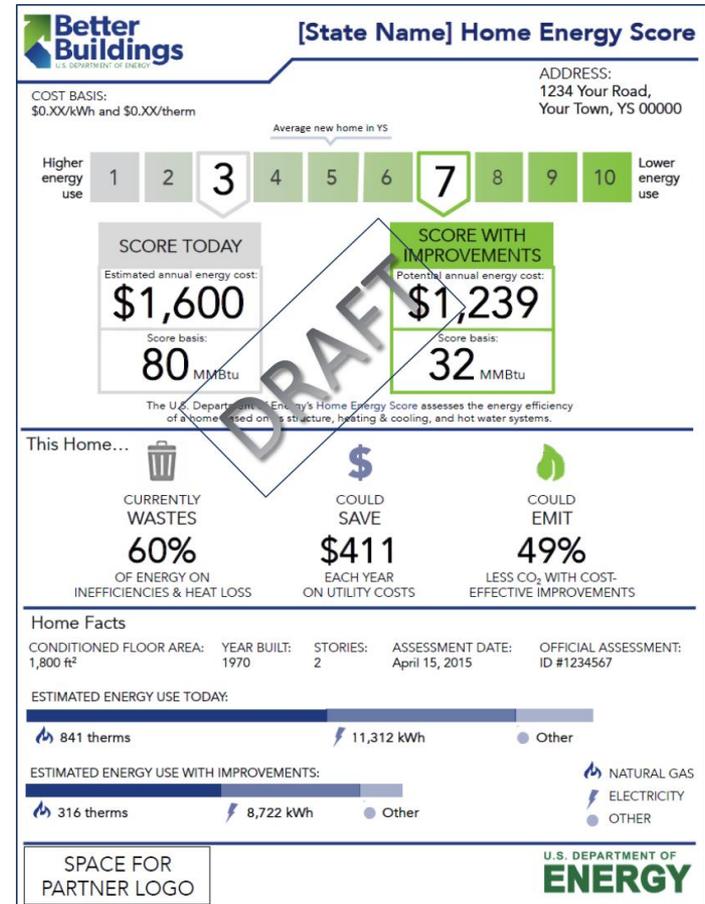
Goal 1



- Create a standard Rhode Island Label Or National Label
 - Common and useful metrics
 - Allow for state/program-specific logo/design
 - Appealing layout: simple, easy-to-understand, and valuable

Goal 2

- Make creating this label as easy, cost-effective and streamlined as possible
 - DOE is willing to build a semi-custom, one-page report in their Home Energy Scoring tool
 - A group of NE states (VT, NH, MA, CT) may be willing to share the cost of hiring a software provider to create more report flexibility (if the DOE score does not meet state needs)



Questions?



Becca Trietch
Office of Energy Resources
Becca.Trietch@energy.ri.gov

Memorandum

To: RI Energy Efficiency & Resource Management Council
From: Mike Guerard & Scudder Parker on behalf of EERMC Consultant Team
Date: January 12, 2016
Subject: 2016 Proposed Scope of Work for EERMC C-Team

Proposed 2016 Scope of Work

I. Background

It has been nearly a decade since Rhode Island’s Energy Efficiency and Resources Management Council Act of 2006 (RIGL §42-140.1-6) was passed as companion legislation to Rhode Island’s 2006 Least Cost Procurement and System Reliability Act (RIGL §39-1-27.7). This legislation created the framework for Least Cost Procurement and System Reliability planning and implementation in Rhode Island. Subsequent legislation has built on the framework created by these laws and given further guidance and direction to the Energy Efficiency and Resource Management Council (EERMC). Almost a decade after the passage of this legislation, the EERMC has become an important part of the planning, public input, implementation, oversight, and coordination functions that have made Least Cost Procurement (LCP) a vital part of the Rhode Island energy system, and an important part of its economy.

The Consultant Team (C-Team) is pleased to provide this Scope of Work (SOW) for its services to the EERMC in 2016. This SOW represents a significant departure from the structure of previous documents over the last few years. In this version, we seek to tie proposed services to the Council’s mission directly, linking activities to the legislated Council responsibilities, encompassing its “Powers and Duties” and “Additional general powers” as well as EERMC roles and responsibilities in other sections of legislation related to LCP.

In this document, we quote from the EERMC authorizing legislation directly and link our proposed work to that legislative guidance. The first two sections of the legislation are the Legislative findings, and the statement of the Purposes for Establishment of the Council. These documents reflect the history of utility evolution in the early years of the century that include the “restructuring” of the utility system and the uncertainties and cost and price fluctuations associated with it. The legislation recognized energy efficiency and energy conservation as strategies that could provide enormous benefits and increased control of energy costs. It realized that a new and focused effort to build a new structure that could acquire “efficiency resources” was required, that it must include sustained thoughtful input from stakeholders, provide thoughtful oversight and evaluation, and continue to educate consumers and enhance their recognition of the benefits of this new approach.

§ 42-140.1-2 Legislative findings. – *It is hereby found and declared:*

(a) Rhode Island has experienced an energy cost crisis during 2005 and 2006 and faces the prospect of fluctuating and increasing energy prices in the future.

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(b) Energy conservation and energy efficiency have enormous, untapped potential for controlling energy costs and mitigating the effects of energy crisis for Rhode Island residents and the Rhode Island economy.

(c) Rhode Island has lacked an integrated, comprehensive, public, stakeholder-driven organizational structure to secure for Rhode Island and its people the full benefits of energy efficiency, energy conservation, and energy resources management.

§ 42-140.1-3 Establishment of council – Purposes. – *(a) There is hereby authorized, created and established a council to be known as "The Rhode Island Energy Efficiency and Resources Management Council" with the powers and duties set forth in this chapter.*

(b) The purposes of this council are to:

(1) Evaluate and make recommendations, including, but not limited to, plans and programs, with regard to the optimization of energy efficiency, energy conservation, energy resource development; and the development of a plan for least-cost procurement for Rhode Island; and

(2) Provide consistent, comprehensive, informed and publicly accountable stake-holder involvement in energy efficiency, energy conservation, and energy resource management; and

(3) Monitor and evaluate the effectiveness of programs to achieve energy efficiency, energy conservation, and diversification of energy resources; and

(4) Promote public understanding of energy issues and of ways in which energy efficiency, energy conservation, and energy resource diversification and management can be effectuated.

II. Proposed activities to support EERMC obligations, including hours and budget

The legislation outlines the Powers and Duties of the EERMC and then enumerates a list of Additional General Powers that describe the types of activities it is authorized to undertake. Many of these duties are given specificity in other sections of the law, and some have been added in subsequent legislation.

The structure for each element in this proposed SOW is to list the discrete legislated obligation of the Council, followed by description of the activities and key deliverables proposed by the C-Team, in the following format:

Referenced legislated language...

C-Team task to support Council obligation

- **Description:** (what will be done to fulfill task)
- **Key Deliverables:** (e.g. memo, report, or services delivered)

The following table summarizes these elements, along with estimated hours and costs for each deliverable. The C-Team hourly rates are the same as 2015. The proposed hours are in line with 2013-2015 levels. The final proposed budget amount is less than the \$782,000 estimated for the C-Team in the draft 2016 Budget reviewed at the December 10, 2015 Council meeting. After the table, more detail is provided describing each task and deliverable.

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HOURS AMOUNT

(a) Develop and recommend for implementation plans, programs and standards for energy conservation, energy efficiency, and diversification of energy resources.		
1	Develop Proposed 2018-2020 Savings Targets and Standards	810 \$142,250
2	Support Development and Review of 2017 EEPP and SRP	524 \$95,200
(b) Monitor and evaluate plans and programs for energy conservation, energy efficiency and diversification of energy resources; in order to effectuate such evaluations the council may request audits, including performance audits, of any program for energy conservation, energy efficiency or diversification of energy resources		
3	Implementation oversight of 2016 EEPP and SRP	350 \$63,000
4	EM&V Oversight	250 \$44,360
5	Identification and support for program modification and enhancements	448 \$83,360
(c) Submit to the joint committee on energy an annual report on or before April 15 of each year, commencing in 2008, regarding the activities of the council, its assessment of energy issues, the status of system reliability, energy efficiency and conservation procurement and its recommendations regarding any improvements which might be necessary or desirable.		
6	Annual Report to GA	80 \$14,730
(d) Participate in proceedings of the public utilities commission that pertain to the purposes of the council, including but not limited to proceedings regarding least-cost procurement		
7	Technical Sessions and other PUC-related events	168 \$29,700
(e) Advise electric distribution companies with regard to implementation of least cost procurement.		
8	Support policy and strategic considerations regarding LCP	200 \$36,100
(f) Advise the commission of energy resources, and recommend policies, standards, strategies, plans, programs, and procedures with regard to functions of the office of energy resources		
9	Coordination with, and support of, OER Commissioner and staff	308 \$57,740
(g) Consider such other matters as it may deem appropriate to the fulfillment of its purposes, and may advise the governor, the general assembly, other parties, and the public with regard to matters pertaining to its purposes and duties, which advice may include findings and recommendations.		
10	Address Key Policy Issues	108 \$20,160
§ 42-140.1-6 Additional general powers. – In order to effectuate its powers and duties the council has the following powers: (a) To make any studies of conditions, activities, or problems related to the state's energy needs, usage, and supplies to carry out its responsibilities.		
11	Monitor general energy issues	64 \$11,800
(b) To adopt amend bylaws, to establish committees, to elect and or appoint officers and agents, and to engage consultants and professional services as necessary and appropriate to fulfill its purposes.		
12	Oversight of professional services funded by Council	104 \$19,900
(d) To work with the appropriate federal, regional, and state agencies, and private entities.		
13	Inter-agency coordination and stakeholder engagement	418 \$77,220
§ 39-1-27.7 System reliability and least-cost procurement 2(c)(6) (iv) The energy efficiency and resource management council shall conduct at least one public review meeting annually, to discuss and review the combined heat and power program, with at least seven (7) business days' notice, prior to the electric and gas distribution utility submitting the plan to the commission.		
14	Hold Public Review Meeting on CHP	28 \$4,970
Ongoing support for Council activities and interests		
15	General support of Council meetings, and council member-specific issues	284 \$53,320
CORE SUBTOTAL		4144 \$753,810
Travel & Other Expenses		
	Monthly Council Meetings	96 \$9,560
	Hearings, Stakeholder Mtgs	83 \$8,080
	Other Expenses	\$4,000
TOTAL		4323 \$775,450

EERM CONSULTANT TEAM



§ 42-140.1-5 Powers and duties. – The council shall have the power to:

(a) Develop and recommend for implementation plans, programs and standards for energy conservation, energy efficiency, and diversification of energy resources.

1. Develop Proposed 2018-2020 Savings Targets¹ and Update Energy Efficiency Standards²

- **Description:** The first step in the process of determining implementation plans and programs is the establishment of cost-effective, achievable savings targets. The EERM is directed to provide proposed targets for gas and electric savings triennially to the PUC, which will be due in September 2016 to inform 2018-2020 planning. In order to establish effective savings targets, significant research, analysis and stakeholder engagement will be required leading to submittal, followed by PUC processes to review the proposed targets. Additionally, this period of time is when the Standards for energy efficiency and system reliability are updated, if necessary. The C-Team proposes to play a significant role in the process leading to the Council’s submittal of the targets and any changes to the Standards.
- **Key Deliverables:** The establishment and execution of a project management plan that includes monthly Council reports and opportunities for Council input; research and analysis including national and regional comparisons; recommendations for independent research if warranted, and support of process to secure additional resources; coordination and engagement with stakeholders; issuance of a final report to the Council and support in filing savings targets with the PUC; and participation in follow-up processes with the PUC during review and ruling on targets.

2. Support Development and Review of 2017 Annual Energy Efficiency Program Plan (EPP) and System Reliability Plan (SRP)

- **Description:** The development of the 2017 EPP and SRP is anticipated to be a significant undertaking over the course of much of the year. The process begins generally in the second quarter of the year through engagement at the Collaborative and through direct discussions with National Grid to identify general directions for portfolio consideration and specific areas for program enhancement. Concurrent to this and as early in the year as possible, a process to review and consider modifications to the Technical Reference Library (TRL) supports cost and savings consideration for the plans. The process leads to a series of drafts of the plans requiring review and input, analysis of benefit/cost models, stakeholder coordination on key issues, and filing of a Settlement of the Parties on the plan with the PUC by October 15. The EERM is required to submit a Cost-Effectiveness Report (C-E Report) within two weeks of the filing of the plans.
- **Key Deliverables:** Participation in Collaborative meetings and associated stakeholder engagement; review and analysis of plan drafts including TRL and benefit/cost models; periodic reporting to the Council and engagement with individual Council members on constituency-specific topics; development and submittal of the C-E Report to the Council for approval, followed by subsequent support for submittal of the C-E Report to PUC.

(b) Monitor and evaluate plans and programs for energy conservation, energy efficiency and diversification of energy resources; in order to effectuate such evaluations the council may request audits, including performance audits, of any

¹ See also § 39-1-27.7.1 Revenue decoupling

² See also § 39-1-27.7 System reliability and least-cost procurement.

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program for energy conservation, energy efficiency or diversification of energy resources, that is established pursuant to Rhode Island law or is administered by a state agency, a request for an audit of any program operative pursuant to an order or decision of the public utilities commission shall be made to the commission; the council may make findings and recommendations with regard to changes, modification or continuation of any programs which it has authority to monitor or evaluate.

3. Provide Implementation Oversight of 2016 EEPP and SRP

- **Narrative of activities:** In addition to reviewing monthly dashboards and quarterly reports issued by National Grid, the C-Team has developed a standardized process to conduct oversight of the EEPP and SRP's implementation that affords more a granular, real-time understanding of each program's progress to goal. Monthly meetings with C-Team sector strategy experts and National Grid's residential and C&I sector strategy groups provide an effective forum to cover progress-to-date in each program, strategic issues related to appropriate program enhancements, as well as to support future planning of program portfolios. As part of the process, sets of key data are identified and provided monthly by National Grid to enable the C-Team and the Council to better understand implementation progress.
- **Key Deliverables:** Monthly Sector Strategy meetings and associated data review; research and analysis on potential program modifications; as-needed reports on implementation issues at Council meetings and/or with individual Council members relating to their specific constituencies.

4. Provide Evaluation, Measurement, and Verification Oversight

- **Description:** As part of the 2017 EEPP development, the C-Team will conduct a review of the TRL and the associated benefit/cost model, which provide the savings documentation for EE measures. Annual changes, updates, additions and deletions of measures are reviewed to ensure the overall savings assumptions are verifiable. Evaluations that are conducted in Rhode Island and throughout New England are reviewed and used to support appropriate application of results to programs.
- **Key Deliverables:** Review and provide input on completed and ongoing evaluation activities in Rhode Island; review and provide input on TRL; provide ongoing feedback to National Grid regarding new measures and savings opportunities.

5. Identify and Support Program Modifications and Enhancements

- **Description:** A variety of activities have been undertaken directly and indirectly related to monthly sector strategy meetings. Direct activities include follow-up research and updates on specific programs and measures identified in meetings and then provided to National Grid, and review of Requests for Proposals for vendors to deliver programs. Indirect activities include participation in working groups addressing topics that potentially support new cost-effective program concepts and additions. Current topics with working groups anticipated to continue in 2016 are Building Asset Labeling; Zero Energy Buildings; Multifamily Task force; Codes & Standards Initiative Evaluation Group; and Income Eligible Best Practices Working group. The general objective of these activities is to integrate new program approaches developed through the working groups to allow for more savings to be gained and/or those savings gained more cost-efficiently. C-Team representation on behalf of the Council fulfills a unique opportunity to facilitate linkage and leveraging of these efforts.
- **Key Deliverables:** Delivery of topic-specific information on program issues for National Grid, with updates to the Council; participation in working groups to support positive outcomes tied to optimizing LCP objectives; regular reports to the Council.

EERMC CONSULTANT TEAM



(c) Submit to the joint committee on energy an annual report on or before April 15 of each year, commencing in 2008, regarding the activities of the council, its assessment of energy issues, the status of system reliability, energy efficiency and conservation procurement and its recommendations regarding any improvements which might be necessary or desirable.

6. Support Issuance of Annual Report to General Assembly

- **Description:** Support and participate in meetings with Annual Report subgroup (OER, National Grid) to develop and submit the Annual Report by April 15, 2016. Write sections of the report, as assigned, and review and edit document drafts and final version. Provide updates to the Council and respond to direction on desired content, especially relating to the “Policy Recommendations” section.
- **Key Deliverables:** Participation in group activities; services related to writing, reviewing and editing document; updates on progress to the Council.³

(d) Participate in proceedings of the public utilities commission that pertain to the purposes of the council, including but not limited to proceedings regarding least-cost procurement as provided for in § 39-1-27.7.⁴

7. Participate in Technical Sessions and Other PUC-related Events

- **Description:** At a minimum, it is anticipated that two Council-related events will require participation in technical sessions of the PUC – the submittal of the 2018-2020 Savings Targets on September 1, 2016 and the submittal of the 2017 EEPP/SRP on October 15, 2016. In addition to the preparation for, and participation in, the technical sessions, it is likely there will be related information requests from the PUC requiring formal response and/or review of responses from other parties. In addition to the technical sessions, a related open meeting of the PUC is held to announce ruling on dockets. For purposes of developing this proposed SOW, we assume at least one other event may require Council representation. For example, it is likely that there will be continued involvement of the EERMC in Docket No. 4568, the current Rate Design case, in the form of continued participation and rebuttal testimony in 2016. An example of a similar kind of proceeding was the street lighting tariff in 2014.
- **Key Deliverables:** Preparation for and attendance at technical sessions; drafting and defense of testimony (if specifically requested to do so by the Council); participation in associated open meetings; responses to PUC information requests and review of responses to information requests; updates to the Council; coordination of activities with EERMC Counsel.

(e) Advise electric distribution companies with regard to implementation of least cost procurement.

8. Support Policy and Strategic Considerations Regarding Least Cost Procurement

³ This is an area of activity where the Consultant Team used to take significant leadership responsibility, and that work has now been assumed by OER staff, with strong continuing support from EERMC members and National Grid.

⁴ Related legislation from the PUC section: § 39-1-27.9 Office of energy resources participation. – In any commission inquiry into, or examination of matters that relate to or could potentially impact any programs, functions or duties of the office of energy resources and/or the energy efficiency and resources management council, including, but not limited to, those programs, functions and duties pursuant to this chapter and chapters 42-140, 42-140.1, 42-140.2, and 42-141, the office of energy resources and the energy resources council shall be deemed, upon the formal request of the office or the council as appropriate, to be an interested party for all purposes, and as such, shall receive all notices and may file complaints, institute proceedings, participate as a party in administrative hearings.

EERMC CONSULTANT TEAM



- **Description:** The C-Team has participated in a number of important efforts that fall into this category. The work on System Integration Rhode Island (SIRI) is an example of such an effort. Other efforts have focused on delivered fuels, an assessment of the potential benefits, risks, and effects of heat pumps, an exploration of the potential benefits of adopting new appliance standards, and work on strategies to promote energy benchmarking are other examples of things done to support LCP.
- **Key Deliverables:** Participation in relevant working groups; delivery of memos/reports to the Council as well as Council presentations, as appropriate.

(f) Advise the commission of energy resources, and recommend policies, standards, strategies, plans, programs, and procedures with regard to functions of the office of energy resources including but not limited to plans, strategies, and programs to:

- (1) implement cost-effective energy conservation and energy efficiency programs;*
- (2) promote the development of eligible renewable energy resources for Rhode Island;*
- (3) foster distributed generation of electricity and demand response;*
- (4) assist low-income households in meeting energy needs;*
- (5) coordinate the use of funds, resources, and programs from diverse resources to achieve the purposes of the office.*

9. Advise the Office of Energy Resources (OER)

- **Narrative of activities:** The Council plays a key advisory role for the OER in the areas listed above, which the C-Team will support on behalf of the Council under its general direction. Over the last few years, the C-Team has been directed to work with OER Commissioner and mentor OER staff. However, with the growth in scale and skills of OER, efforts can now be more focused on coordination and partnering on issues relating to least cost procurement that help fulfill Council obligations. This includes advising on the development of strategies and tactics to align governmental agency efforts on energy issues, addressing key stakeholder interests and increasing their understanding of and access to existing programs, providing input on Regional Greenhouse Gas Initiative (RGGI) investments and supporting and informing efforts and initiatives directed at legislative and executive government levels.
- **Key Deliverables:** Regular updates on OER activities to the Council, as well as receiving and acting on Council direction on advisory positions for future OER activities; regular check-ins with OER Commissioner and key staff on relevant energy issues; support for RGGI planning and implementation based on Council advisement to OER.

(g) Consider such other matters as it may deem appropriate to the fulfillment of its purposes, and may advise the governor, the general assembly, other parties, and the public with regard to matters pertaining to its purposes and duties, which advice may include findings and recommendations.

10. Address Key Policy Issues

- **Narrative of activities:** The Council identifies key areas requiring policy consideration, including specific items included in the Annual Report to the General Assembly in the “Policy Recommendation” section. The C-Team (along with OER and other individual EERMC members) helps introduce these topics, explore how they might affect the future of the energy and utility systems in Rhode Island, and engages appropriate partners in Rhode Island and elsewhere when appropriate to bring new perspectives and insights to the Council. The policy topics typically of interest are those that may influence future design

EERMC CONSULTANT TEAM



of LCP and System Reliability procurement. These topics include: demand management and load control; the emergence of electric vehicles and energy storage; various discussions about regional issues, including infrastructure needs and costs; renewable energy development and its integration into the grid; rate design and cost recovery; ancillary services; utility incentives and performance regulation.

- **Key Deliverables:** Participation in the regular sharing and exchange of “digestible” information to the EERMC, OER and individual members; facilitation of Council discussions on policy topics; issuance of Memoranda to introduce topics; participation in briefings of RI regulators and other thought leaders as requested.

§ 42-140.1-6 Additional general powers. – In order to effectuate its powers and duties the council has the following powers:

(a) To make any studies of conditions, activities, or problems related to the state's energy needs, usage, and supplies to carry out its responsibilities.

11. Monitor General Energy Issues

- **Narrative of activities:** This activity will often relate to the work described in #10 above, but is likely to be more focused on specific policy options and proposals. State and regional issues relating to energy needs, usage, and supply are evolving quickly. It is part of the C-Team’s role to stay abreast of these issues and support the EERMC in learning and, where appropriate, in providing input.
- **Key Deliverables:** Periodic, as-needed, presentations to the Council; attendance at meetings on behalf of the EERMC (and with EERMC member participation) as appropriate; development of specific recommendations as requested by the Council, e.g., the memorandum about the approach the EERMC should take in its participation in the development of the RIIB.

(b) To adopt amend bylaws, to establish committees, to elect and or appoint officers and agents, and to engage consultants and professional services as necessary and appropriate to fulfill its purposes.

12. Provide Oversight of Professional Services Funded by Council

- **Narrative:** The Council is currently funding professional services regarding financing issues, which will carry into mid-2016. Additionally, professional services to support research and analysis of 2018-2020 Savings Targets may be a consideration for the Council in the 2016 budget. Additional budget considerations for 2016 may result in the identification of other areas requiring vendor support.
- **Key Deliverables:** Continued provision of project management oversight of finance expert Dunsy Energy Consulting; facilitation of regular reporting to solicit Council direction on desired activities and outcomes; support for the solicitation, selection and project management oversight of other vendors, as needed.

(c) To accept and administer grants from the federal government and from other sources, public or private, for the carrying out of any of its functions, which loans or grants shall not be expended for other than the purposes for which provided.

N/A

EERMC CONSULTANT TEAM



(d) To work with the appropriate federal, regional, and state agencies, and private entities.

13. Support Inter-agency Coordination and Stakeholder Engagement

- **Description:** An important and unique function the Council provides is to support holistic approaches in support of LCP. Multiple governmental and quasi-governmental agencies and private entities have roles and activities that intersect to varying degrees with LCP. Examples of C-Team efforts to support Council fulfillment of this objective have included holding meetings (many coordinated with OER) with Department of Human Services, Housing and Community Development, Rhode Island Housing, Rhode Island Infrastructure Bank, Office of the General Treasurer, municipalities, Division of Public Utilities, League of Cities and Towns, Grow Smart RI, Alliance for Healthy Homes, Emerald Cities, Oil Heat Institute, and individual stakeholders. It is anticipated that conversations and efforts will be ongoing with most if not all of these groups going forward refine and enhance cooperative efforts related to LCP.
- **Key Deliverables:** Reports to the Council on activities; attendance at and support of meetings; continued identification of additional opportunities to close gaps and facilitate key connections.

(e) To apply for, accept and expend allocations, grants and bequests of funds, for the purpose of carrying out the lawful responsibilities of the council.

N/A

Related legislation relating to EERMC obligations:

§ 39-1-27.7 System reliability and least-cost procurement 2(c)(6) (iv) The energy efficiency and resource management council shall conduct at least one public review meeting annually, to discuss and review the combined heat and power program, with at least seven (7) business days' notice, prior to the electric and gas distribution utility submitting the plan to the commission.

14. Hold Public Review Meeting on Combined Heat & Power (CHP)

- **Description:** An annual public review meeting is required to be facilitated by the EERMC. The OER and National Grid are primary participants in the review of current CHP programs and results, and related discussion regarding public input on potential enhancements.
- **Key Deliverables:** Support for the meeting with OER and National Grid with Council input; attendance at meeting and provision of report to the Council on results; support for any associated follow-up and stakeholder communication.

Ongoing support for Council activities and interests

15. Provide General Support of Council and ExComm Meetings and Council Member-specific Issues

- **Description:** A core set of ongoing tasks has been undertaken by the C-Team to facilitate Council communications and operations. This includes attendances at Council-related meetings and support of meeting agenda setting, coordination of stakeholder presentations, written monthly C-Team activity reports for Council member meeting packets, responses to Council member queries, and coordination with EERMC Counsel.

EERMC CONSULTANT TEAM

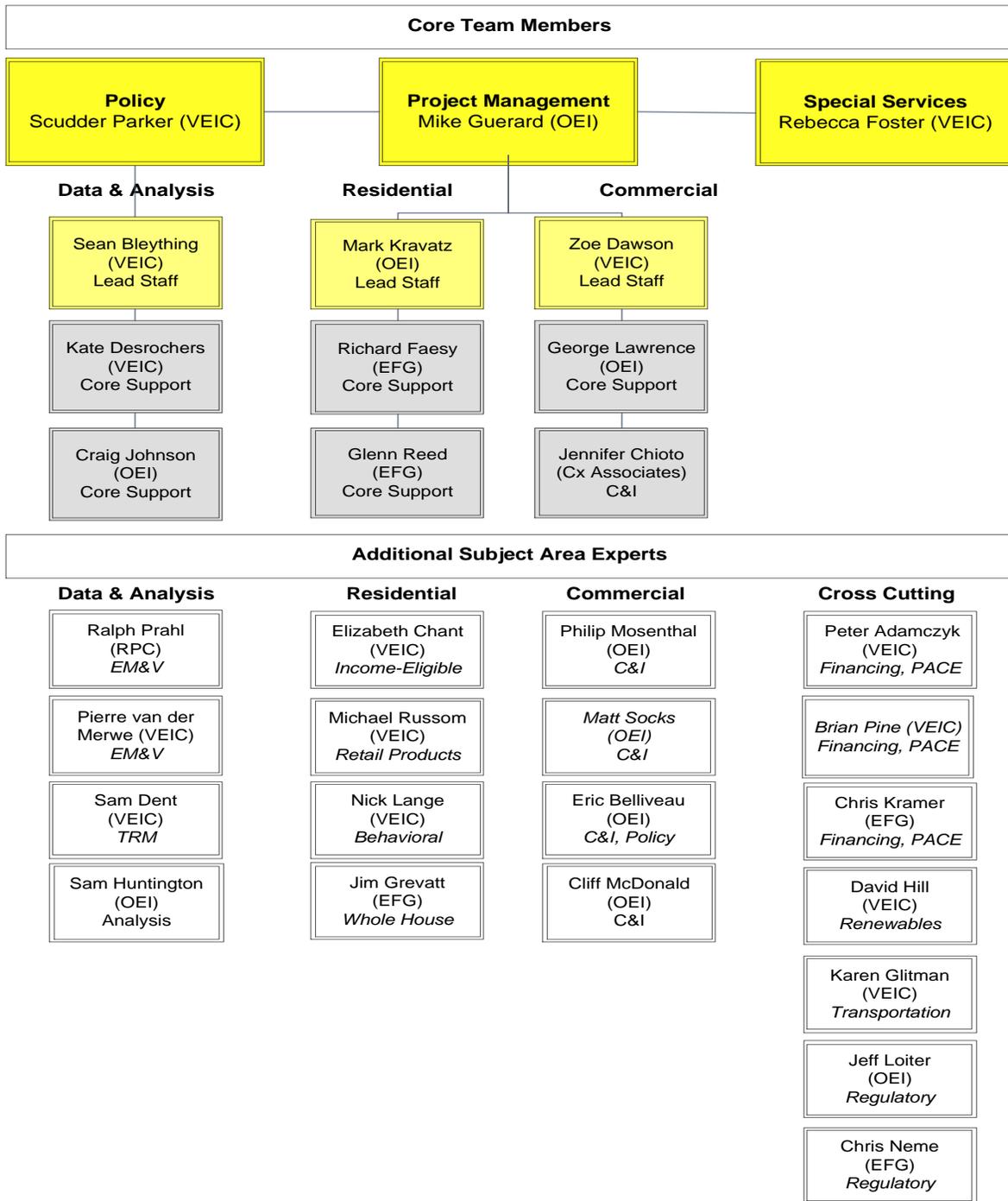


- **Key Deliverables:** Assistance related to effective Council and ExComm meetings, including drafting agendas, reports, and updates as well as timely and effective responses to individual Council member queries.

EERM CONSULTANT TEAM



III. C-Team composition and organizational chart



2016 EERMC Draft Budget

as of 1/12/16

<u>Income</u>	
2016 EE Plan - Electric	\$ 793,100
2016 EE Plan - Gas	\$ 233,300
Total	\$ 1,026,400

<u>Client Fund Balance as of 1/1/16</u>	
Expo 2015	\$ 50,000
Finance Study	\$ 70,000
Unallocated Carry-over	\$ 128,000
Total	\$ 248,000

* will be expended in 2016

* will be expended in 2016

<u>Projected Allocations</u>	
Core Consultant Service:	\$ 775,000
Legal Counsel	\$ 40,000
Communications	\$ 15,000
Counsel Travel	\$ 500
Expo 2017	\$ 50,000
Total	\$ 880,500

<u>Budget Summary</u>	
Income	\$ 1,026,400
Client Fund (unallocated)	\$ 128,000
Projected Allocations	\$ 880,500
Net Income	\$ 273,900