

Application.

“Highlights of the energy savings program that would be implemented to compete for the prize.”²

The implanted ideas from the savings program (the Energy Efficiency Plan) would save **41,926.4 Megawatt hours** (over 41.9 Gigawatt hours!) of power for Centre Region over the first three years of the Competition. And only \$4.4 million of the \$5 million prize has been “spent” so far.

We believe this energy projection idea will be seen as a powerful predicting modeling approach, especially since it is offered so early in the Competition. It is hoped that it would give us a measure of weight in competing through the various stages.

We are currently in the Application Stage of the Competition. This Plan’s tentative options would need to be boiled down to its highlights for the purpose of submitting the Application which is due by the end of June.

The overall spending Plan is what is required for the Quarterfinalist round after the Application is accepted. The reason a Plan was developed now is to help answer the question of what the Application’s highlights would be taken from if there was nothing yet to take them from.

The main thrust behind creating a Plan and a community sustainable energy group to review them would be to use these tools, in a community open forum format, in deciding what to include in our Highlights section of the Application that COG is working on.

Highlights.

The highlights ideas would follow the categories identified in the competition Guidelines: long term reductions in per capita energy through processes that are innovative, replicable, scalable, and spur growth in renewable energy production markets where customer, community, and utilities are all rewarded, are through policy and education.

Energy Efficiency Plan – Overview

Long-term planning in replicable, scalable, innovations:

Plastic Window Inserts – 1,899 MWh saved

Water tank & Pike Insulation – 380 MWh saved

Faucet Aerators – 61 MWh saved

Energizing Community Housing – 200 MWh saved

LED lighting – 32,000 homes – 1,518 MWh saved

White roofs campaign – 38 MWh saved

Solarizing Local Farms – 71 MWh saved

Solarization of Local CSA – 71 MWh saved

Community Bulk Buying – 2,460 MWh saved

City Hall Green – 707 MWh saved

Residential Green – 2,460 MWh saved

Right-of-Way Power Generation – 1.4 MWh saved

Municipal Waste Water Heat Recovery

Energy Audits – 158 MWh saved

Research and Deployment Innovations:

Feed-back E-coupling

NiMH/Geothermal Electric Production

Farm-To-Module Concept

Promotional Ideas to spur growth:

Free Renewable Energy Website Calculator

Save Energy: Straw Bale & Modular Construction Event

Community Renewable Energy Cooperative Seed Money
Net Zero Initiative Assistance

Radio, TV Advertising

West Penn Power RE Grants

Energy Progress Dashboard

Renewable Energy Entrepreneurial Fund

Community Rewards:

Renewable Energy local-vesting event;

Utility Company Energy Efficiency Challenge

Policy Initiatives

Fairness in Energy Act – 20,043 MWh saved

Residential Micro-Wind – 137 MWh saved

Renewable Energy Land Trust/Housing Transitions – 295 MWh saved

Education Initiatives:

Door to Door LED's – 10,021 MWh saved

Video's: Energy Efficiency – 1525 MWh saved

Student 30-year Projection Projects – 1,254 MWh saved

Student Demonstration Materials – NiMH

State College Area School District Projects

Administrative Funding

Projected 3-year energy savings: **41,926.4 Megawatt hours.**