

## **Alaska State Energy Sector Partnership Training Grant**

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In January 2010 the U.S. Department of Labor announced that the Alaska State Energy Sector Partnership (ASESP) and Training Grant application was awarded in the amount of \$3,600,000 under the American Recovery and Reinvestment Act (ARRA) with a starting date of January 29, 2010. The grant proposes to train over 700 workers over the next three years to increase the supply of workers with energy-efficiency skills to support energy efficient end user technology and the hydroelectric, wind turbine, geothermal, and biomass industries. The grant application identifies the ASESP to serve as the steering committee throughout the life of the grant to participate in the planning, support, and implementation of the State's energy sector strategy.

On April 14, 2010 a meeting of the ASESP was held in Anchorage to review the strategic planning process, refine the project implementation timeline, and discuss the resource allocation and grant distribution process. The ASESP formed two committees assigned to meet at least monthly.

In October of 2010 the Grant Process Committee reviewed and approved project operator agreements from AVTEC, Alaska Energy Authority (AEA), and the Alaska Apprenticeship Training Coordinators Association (AATCA). AVTEC will begin training wind technicians by the Spring of 2011 as well as Industrial Electrician, Power Plant Operator (wind), Advanced Power Plant Operator (wind), and Hydro Plant Operator. The Alaska Energy Authority began training participants in Bulk Fuel Operations and Maintenance and will begin a Power Plant Operator class with a new Wind Technician component. The AATCA is training apprentices and journeyman in energy efficiency construction trades skills, including Green Mechanical Systems Awareness Training and Introduction to Alternative Energy Systems for wind and hydroelectric power generation.

On October 25, 2010 the AWIB passed Resolution No. 10-04 to adopt and recommend the Alaska State Energy Sector Renewable Energy Sector Renewable Energy/Energy Efficiency (RE/EE) Workforce Development Plan. On October 27, 2010 the ASESP Request for Grant Application (RGA) period was opened seeking grant applications for training in RE/EE industries, including hydroelectric, wind turbine, biomass, geothermal, and weatherization.

In January 2011 a Project Operator Agreement was submitted by Alaska Works Partnership in partnership with the Alaska Housing Finance Corporation for weatherization training. On January 18, 2011 four applications were received for competitive grants. Grant applications were received from SAVEC, United Association of Plumbers and Pipefitters Local 367, AVTEC, and Rural Cap.

On April 28<sup>th</sup> and 29<sup>th</sup>, 2011 Jeff Selvey and I attended The Business of Clean Energy Conference in Anchorage sponsored by Renewable Energy Alaska Project (REAP). The conference included break-out sessions with an overview of several RE/EE projects throughout Alaska. There is interest from REAP and the Alaska Energy Authority in coordinating a workforce development breakout session at the Alaska Rural Energy Conference scheduled from September 27<sup>th</sup> through 29<sup>th</sup>, 2011 in Juneau which we are currently working on.

As of May 13, 2011 the current budget status of the ASESP training grant includes \$1,201,353 for project operators to distribute over the next year, and \$848,520 for competitive grants to distribute and expend over the next year. Seven competitive grant applications totaling \$611,880 were submitted as of April 18, 2011, and reviews will be conducted in the next few weeks.

The next ASESP meeting is scheduled for June 16, 2011 to review project operator outcomes in FY 11, proposed training plans for FY 12, and the most current ASESP Implementation Plan.



ALASKA DEPARTMENT OF LABOR  
& WORKFORCE DEVELOPMENT

## Alaska State Energy Sector Renewable Energy/Energy Efficiency Workforce Development Plan Implementation Plan DRAFT

### Strategy 1.0

Develop a comprehensive training system that supports the goal of reducing energy consumption and carbon emissions

Strategic Element 1.1: The ASESP will advise the AWIB on RE/EE issues

CTE: 2.3

GAS: 2.3

EED: A.2, 3, 6, 13, 15

Strategic Element	Task	Person(s)	Timeline
1.1.(a) The ASESP will present the plan to the AWIB	Done – AWIB October Board Meeting	Greg C.	Approved – October 25, 2010
1.1.(b) Strengthen ASESP partnership to sustain plan	Host forum to bring new partners for sustainability	Greg Cashen	Might combine with AK Rural Energy Conference – Juneau – September 27-29, 2011
1.1.(c) Align ASESP membership with emerging workforce development opportunities	Done - Colette and Jeff worked on this. <b>Key:</b> Blue is the CTE Plan; Green is the Gasline Strategic Plan; and Red is the EED Education Plan	Colette Smith Jeff Selvey	Completed – December 19, 2010
1.1.(d) Identify and share best RE/EE industry practices	Roundtable – forum breakout session	Greg Cashen	Might combine/coor dinate with AK Rural Energy Conference – Juneau – September 27-29, 2011

**Strategic Element 1.2: Alignment will occur between the State Energy Plan and the ASEP plan, CTE plan and state workforce development plans**

Strategic Element	Task	Person(s)	Timeline
1.2.(a) Align ASEP plan with Alaska state energy policies	Forum	Peter Crimp Greg Cashen Sean Skaling CTE Lead Team	August 2011
1.2.(b) Facilitate MOU/MOA to promote cross agency alignment	Task 1.1(b)	Mike Shiffer Greg Cashen	August 2011
1.2.(c) The AWIB reviews and recommends approval		AWIB	May 2011

**Strategic Element 1.3: Develop career ladders, pathways and lattice courses in RE/EE Occupations**

CTE: 1.1 / 5.4 / 2.3 / 5.5 / 6.1 / 6.3

GAS: 2.2 / 2.3 / 2.4 / 4.1 / 6.4

EED: A.2, 4, 8 / A.12 / A.2, 3, 6, 13, 15 / A.11, 12 / A.12 / A.11 / A.11, 12

Strategic Element	Task	Person(s)	Timeline
1.3.(a) Identify existing and emerging industry standards, occupations and certifications	Forum Use national guidelines	Mike Andrews Helen Mehrkens AACTA	October 2011
1.3.(b) Clearly define career ladders for individuals within each trade to know which career path to follow		Franchella Kendall	June 2011
1.3.(c) Promote career pathways, programs of study to connect K-12, post secondary and registered apprenticeship	CTE, Apprenticeship, UA Systems, Youth First School To Apprenticeship	Kat Keith	August 2011
1.3.(d) Use of state funds for programs leading to certifications, interim credentials and degrees	Report to ASEP	DBP	September 2011

**Strategic Element 1.4: Educate the workforce about energy efficiency and renewable energy**

Strategic Element	Task	Person(s)	Timeline
1.4.(a) Develop strategies to reduce carbon emissions	Work with Alaska Energy Authority		September 2011

and use of diesel fuel			
1.4.(b) Implement strategies to reduce carbon emissions and use of diesel fuel	Work with Alaska Energy Authority		September 2011
1.4.(c) Develop and distribute information on renewable energy sources in Alaska	Work with Alaska Energy Authority and REAP (Renewable Energy Alaska Project) – Distribute information from the 2011 Business of Clean Energy in Alaska Conference, held April 28-29, 2011, Anchorage.		September 2011

**Strategic Element 1.5: Integrate RE/EE industry training standards into state energy training systems**

**CTE: 2.1 / 2.2 / 2.3 / 2.5**

**GAS: 2.3 / 2.2 / 2.3 / 2.3**

**EED: A.6, 10 / A.3, 13, 15 / A.2, 3, 6, 13, 16 / A.2, 3, 4, 8**

Strategic Element	Task	Person(s)	Timeline
1.5.(a) Identify and use industry training standards in RE/EE	REAP – Renewable Energy Alaska Project, AHFC, AEA, AWP		October 2011
1.5.(b) Share and recognize programs that use best industry practices in RE/EE occupations	REAP – Renewable Energy Alaska Project, AHFC, AEA, AWP		October 2011

**Strategy 2.0**

**Based on labor market information integrate RE/EE occupations into career and technical education**

**Strategic Element 2.1: Identify current RE/EE CTE resources**

**CTE: 5.1 / 5.3**

**GAS: 2.3 / 2.3**

**EED: A.6, 12 / A.12**

Strategic Element	Task	Person(s)	Timeline
2.1.(a) Identify occupational (managerial, engineering, supervising, technician education) infrastructure and gaps	Survey training providers. Round table discussion	Research and Analysis	September 2011
2.1.(b) Identify training programs, curriculum, courses, and	Identify industry experts. Round table discussion	Katie Conway	September 2011

training gaps		(resource)	
2.1.(c) Identify funding gaps	Industry and employers. Round table discussion		September 2011

**Strategic Element 2.2: Build in-state education and training capacity for RE/EE occupations**

**CTE: 5.1 / 5.2 / 5.3 / 5.4 / 5.5**

**GAS: 2.3 / 2.3 / 2.3 / 2.4**

**EED: A.6, 12 / A. 4, 6, 12, 13 / A.12 / A.4, 6 / A.12**

Strategic Element	Task	Person(s)	Timeline
2.2.(a) Promote skill standards, certification and licensing RE/EE occupations	AHFC resource	Alison Kelley Scott Waterman	September 2011
2.2.(b) Establish and enhance registered apprenticeship and post-secondary endorsement of occupation degrees	U of A AVTEC Tech Prep School-to-Apprenticeship Registered Apprenticeship Already in place	John Hakala Gerry Andrews Fred Villa	Continuing process – report to ASESP by September 2011
2.2.(c) Align CTE, workforce and economic development strategies	CTE Team	UA Statewide, EED, and AWIB	October 2011
2.2.(d) Commit to a dedicated funding percentage for training programs from publicly funded RE/EE projects	REFAC – Renewable Energy Fund Advisory Commission – Vince Beltrami REAP – Renewable Energy Alaska Project	Governor’s Cabinet Commissioner	FY12 or FY13

**Strategic Element 2.3: Develop and adopt RE/EE curriculum based on industry standards**

**CTE: 2.3 / 4.1 / 4.2 / 4.3 / 4.4**

**GAS: 2.3 / 2.2 / 2.3**

**EED: A.2, 3, 6, 13, 15 / A.4, 5, 7, 9, 14, B.4, 6 / 4, 5, 6, 7, 9, 14 / A.4, 6, 7, 14 / A.4, 5, 7, 14**

Strategic Element	Task	Person(s)	Timeline
2.3.(a) Use the inventory to develop and implement RE/EE curriculum in Alaska K-12, postsecondary, and training institutions	EED, UA, RTCs’, AWIB, DOLWD, AVTEC, REFAC, REAP, AWP, Etc.  Alaska Wind for Schools Program – ACEP (AK Center for Energy and Power)	Kat Keith – Resource CTE Team	FY13
2.3.(b) Attain and use materials that support industry standards of RE/EE curriculum	Happens at local training level. Round table discussion	Greg Cashen CTE Team	September 2011

2.3.(c)	Coordinate efforts with the Alaska CTE Plan	UA, EED, DOLWD/AWIB	CTE Team	September 2011
2.3.(d)	Develop instructors / professional development	Round table, conferences, CE offering. Type M certification; TIE	Greg Cashen CTE Team	September 2011

**Strategy 3.0**

**Promote awareness and access to career opportunities in RE/EE occupations**

**Strategic Element 3.1: Create and support outreach strategies that attract youth and adults to RE/EE occupations**

**CTE: 1.2 / 2.1 / 3.1 / 3.4 / 3.5 / 3.6**

**GAS: 2.2 / 2.3 / 2.3 / 2.5 / 2.2 / 2.3**

**EED: A.2 / A.6, 10 / A.2, 4, 6 / A.2, 4, 6, 10 / A.2, 4, 8 / B.1, 10**

Strategic Element	Task	Person(s)	Timeline
3.1.(a)	Identify outreach programs that relate to RE/EE occupations	Roundtable; Youth First Program sponsors; JATC	August 2011
3.4.(b)	Promote career awareness in K-5; career exploratory opportunities in grades 6-9; and developmental regional training in grades 10-14	Tracks with CTE plan  CTE Lead Team	August 2011

**Strategic Element 3.2: Develop recruitment strategies that attract youth and adults to RE/EE occupations**

**CTE: 1.2 / 2.1 / 3.1 / 3.4 / 3.5 / 3.6**

**GAS: 2.2 / 2.3 / 2.3 / 2.5 / 2.2 / 2.3**

**EED: A.2 / A.6, 10 / A.2, 4, 6 / A.2, 4, 6, 10 / A.2, 4, 8 / B.1, 10**

Strategic Element	Task	Person(s)	Timeline
3.2.(a)	Recruit in local communities	Gather a list of the projects Forum  AEA AHFC - resource	August 2011
3.2.(b)	Require a percentage of grant funding be used for public awareness, outreach and career awareness	Task force  AWIB Governor's Office Commissioner	FY13
3.2.(c)	Promote a coordinated CTSO effort in RE/EE occupations for grades 6-14	CTE Lead Team	September 2011

**Strategic Element 3.3: Expand the efforts of informing communities and the public about future RE/EE projects and training programs**

**CTE: 1.2 / 2.1 / 3.1 / 3.4 / 3.6**

**GAS: 2.2 / 2.3 / 2.3 / 2.5 / 2.3**

**EED: A.2 / A.6, 10 / A.2, 4, 6 / A.2, 4, 6, 10 / B.1, 10**

<b>Strategic Element</b>	<b>Task</b>	<b>Person(s)</b>	<b>Timeline</b>
3.3.(a) Expand the distribution of information to communities about future RE/EE projects and training programs	Expand the distribution of information from Power Cost Equalization, native corporations, non-profit corporations	AEA	Completed
3.3.(b) Use the internet to inform the general public about future RE/EE projects and training programs	Use the DOLWD and ASESP partner websites to disseminate information	AEA	In progress, should be completed by August 2011

**Strategy 4.0**

**Deliver career and technical education and training in RE/EE occupations to ensure Alaskan's have the skills to build, manage, and operate local energy resources**

**Strategic Element 4.1: The ASESP will promote the development of training programs to close the training gaps**

**CTE: 1.3 / 2.3 / 3.5**

**GAS: 2.4 / 2.3 / 2.2**

**EED: A.2, 4, 6 / A.2, 3, 6, 13, 15 / B.1, 10**

<b>Strategic Element</b>	<b>Task</b>	<b>Person(s)</b>	<b>Timeline</b>
4.2.(a) DOLWD ensure all RE/EE training programs will meet industry standards		DBP	August 2011
4.2.(b) Target job training efforts to align with statewide and local energy priorities and projects		DBP	August 2011

**Strategic Element 4.2: The ASESP will monitor emerging trends and evolving training needs to ensure a modern training system**

**CTE: 1.2 / 2.1 / 3.3**

**GAS: 2.2 / 2.3 / 2.3**

**EED: A.2 / A.6, 10 / A.4, 15, B.7, 11**

<b>Strategic Element</b>	<b>Task</b>	<b>Person(s)</b>	<b>Timeline</b>
4.3.(a) ASESP members will provide the committee	Round table	ASESP	September 2011

	updated information related to RE/EE			
4.3.(b)	The ASESP will recommend to the AWIB actions to meet emerging industry training demands	Round table	ASESP	September 2011
4.3.(c)	The AWIB will guide resource allocation to meet emerging industry training needs	Round table	AWIB	September 2011

### Strategy 5

#### Engage industry employers and connect Alaska's workforce to RE/EE occupations

#### Strategic Element 5.1: Engage industry employers in identifying RE/EE occupations and training needs in Alaska

CTE: 5.1

GAS: 2.3

EED: A.6, 12

	Strategic Element	Task	Person(s)	Timeline
5.1.(a)	Provide employers Research and Analysis (R&A) survey results that articulates RE/EE skills and occupations	Survey has been conducted		September 2011
5.1.(b)	Encourage employers to use the R&A's information to identify their positions as RE/EE occupations	See what further detail R&A gets from survey – Brynn and Dean		September 2011
5.1.(c)	Provide RE/EE business connection representative that can help employers gain access to partnership products and services that facilitate the labor exchange between training providers and employers; and between already qualified workers and employers		James Harvey	September 2011
5.1.(d)	Execute a communications plan among employers			September 2011

**Strategic Element 5.2: Develop industry and employer incentives that maximize opportunities for employing Alaskans in RE/EE occupations**

**CTE: 6.1 / 6.2**

**GAS: 4.1**

**EED: A.11 / A.6, 13**

<b>Strategic Element</b>	<b>Task</b>	<b>Person(s)</b>	<b>Timeline</b>
5.2.(a) The ASESP will identify, evaluate and recommend state procurement opportunities for employing persons trained under this plan		Governor's Cabinet Commissioner	FY13
5.2.(b) Develop and support business incentives and capital construction procurement changes for "Alaska Hire" of qualified RE/EE contractors and trained workers		Governor's Cabinet Commissioner	FY13

**Strategic Element 5.3: Evaluate effectiveness of the ASESP plan by evaluating employment outcomes**

**CTE: 3.6**

**GAS: 2.3**

**EED: B.1, 10**

<b>Strategic Element</b>	<b>Task</b>	<b>Person(s)</b>	<b>Timeline</b>
5.3.(a) The ASESP will evaluate the employment outcomes of persons trained for RE/EE occupations	Captured in training report - DBP		August 2012
5.3.(b) The ASESP will determine the employment success rate of each RE/EE training program	Captured in training report - DBP		August 2012