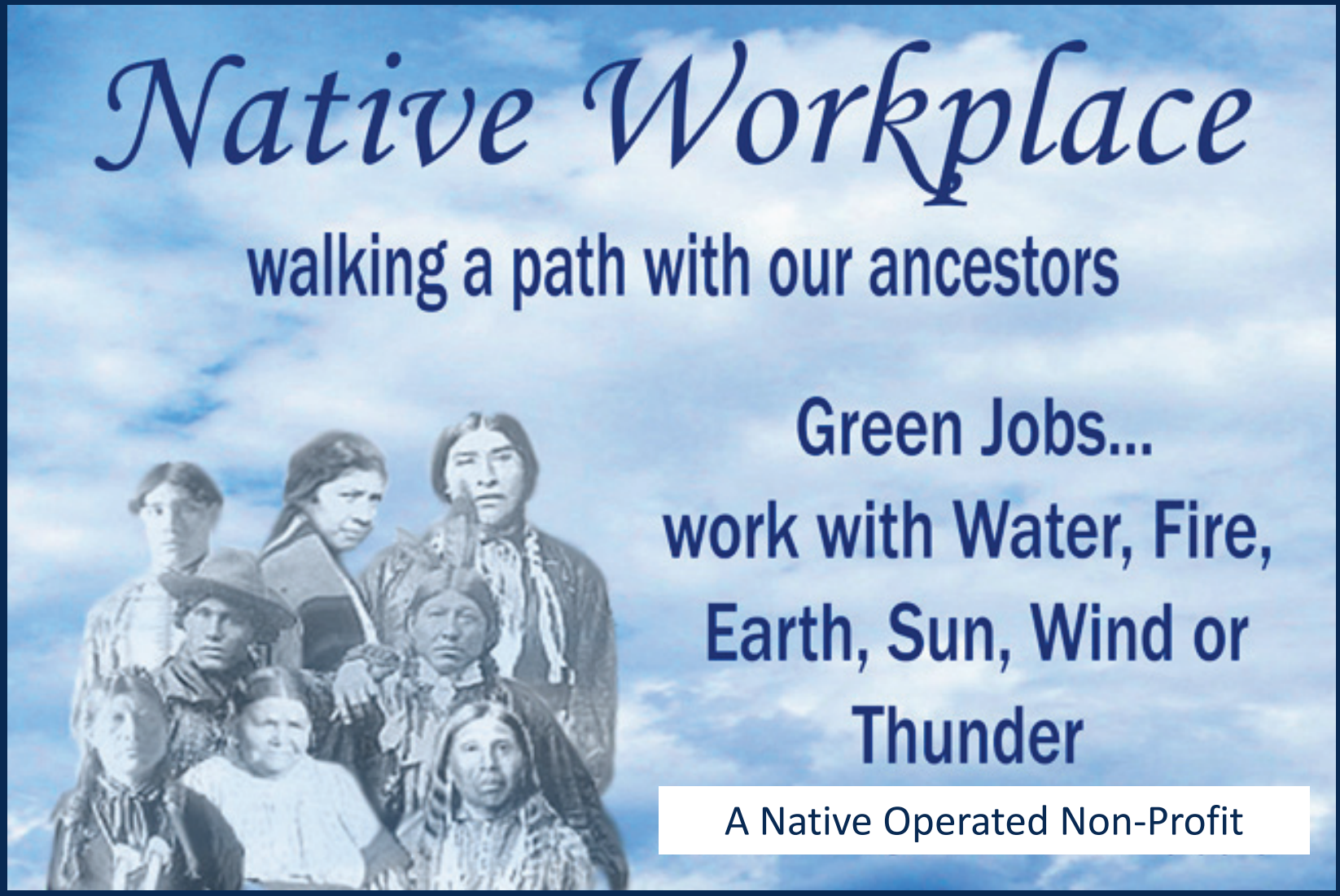
Native Workplace

we make a path by walking

Preserving our Sacred Sources while Building a Green Economy

Native Workplace: what do we do?
Community education on Green Jobs
Website is a hub for education, training, recruitment and Green Tribal news
Green Trades Training Program: Recruiting a Native Workforce

Connecting Green Jobs to our Traditional Values



NWP Green Job Community Education

- Green Career Community Events
- Green Career Class Project
- Green Trades Training Program
- Green Harvest & Trade Project

Careers for Veterans in Green Energy…

What are Green Jobs?

Green Jobs are often careers Working with low impact & non-polluting technologies

- Renewable Energy
- Energy Efficiency / Weatherization
- Land, Air & Water Preservation Methods
- Sustainable living: Organic Farming, Water Gathering, Plant gathering, traditional foods etc.

What are *Trades* in Green Jobs?

electricians install solar panels, KVAR and maintain wind turbines

plumbers install solar water heaters

construction workers build green, audit and install energy efficiency retrofits

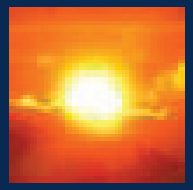
Welders build and maintain wind turbines

Truckers haul wind turbines nationwide

Farmers provide organically grown food and herbal medicines

Landscapers install low-impact water use technologies

Green Energy Jobs

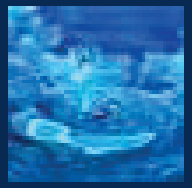


Solar Panel Installation
Solar Heating
Solar Electric
Solar Plumbing

Green-roof Construction
Straw Bale Construction
Low Impact Landscaping
Woody Biomass

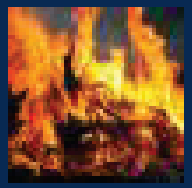
Power Supply
Renewable Electricity
Power Factor Optimization

Green Jobs Related to Land Preservation



Rainwater Collection
Tribal Drinking Water
Storm & Waste Water

Environmental Cleanup
Woody Biomass
Organic Farming
Waste to Energy



Tree Planting
Hot Shot Fire crews
Monitoring Forest Health

Training & Jobs in Weatherization

Weatherization requires audit of residential and commercial buildings – followed by retrofit repairs

Urban: Federal, State, County and City contracts will be awarded for retrofits - including military bases & hospitals – Residential installs = tax credits

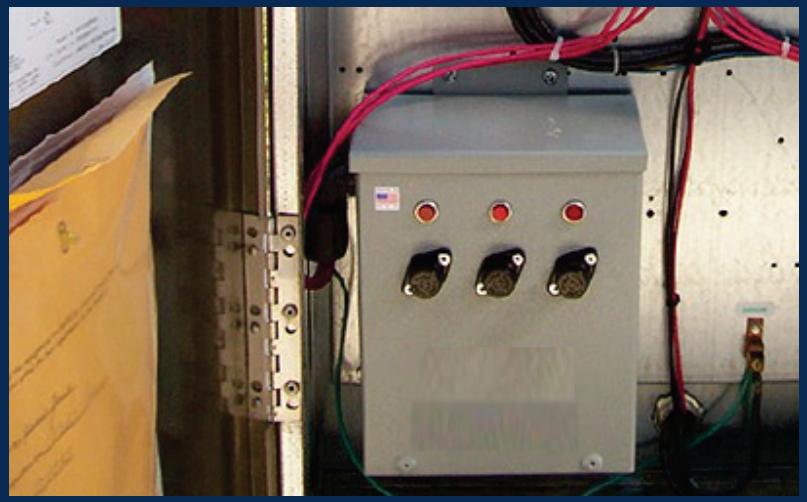
Tribal Projects: Housing, Education, Government agency buildings - grants for building retrofits and repairs

Conducting a blower door test

KVAR KREW: Training contract through Dept. of Interior Office of Indian Energy & Economic Development

K-VAR Energy Controller (KEC)Training & Installation

- Power factor optimization as per the National Electrical Codebook Article 460
- Residential, Commercial & Industrial
- Eligible under the stimulus: green retrofits
- Commercial installations requires **Certified electricians or HVAC**
- Tribal Manufacturing & Jobs



M2G Boiler Load Control

- Brings boilers to optimum efficiency reducing consumption
- Saves 10%-30% on expenses
- Saves $$ replacing boilers
- Eligible for AARA funding
- Training Native installers
- Easily installed with no service interruption
- Manufacturing opportunity
- Financing available

M2G Technical Overview

The M2G is an intelligent boiler control that optimizes boiler efficiency. The technology works on closed loop hot water boilers fueled by natural gas or oil. Heat delivery to beneficial uses is unaffected. The device is compatible with existing building management systems. The M2G installs quickly and does not require changes to existing systems or operations.

Unit Specifications	
M2G System	Model M2G (UL)
Power Requirements	110V AC, 50 mA
Relay Switching Capacity	2A at 120 V AC (resistive)
Isolation Technology	Opto-Isolation
Fuse Rating	1.6A 120 V AC
Dimensions	6.9 in (175 mm) W x 7.9 in (200mm) H x 2.1 in (54mm) D
Sensors (2)	Digital Thermometer
Sensor Range	131°F to 257°F
Weight	3.6 lbs
Case	Metal

Operating Characteristics

- ✓ UL Approved.
- ✓ Numerous verified installations achieve a reduction in energy consumption of up to 30%.
- ✓ Payback on investment normally between 6 - 24 months.
- ✓ Significantly reduces energy consumption through elimination of wasteful burner firing.
- ✓ Easily installed with no calibration required throughout the lifetime of the M2G system.
- ✓ Increased boiler life through reduced firing and more effective control.

Tribal Sustainability Plan

Rainwater Catchment
Zero waste - Trash to Energy
Food & Medicine Gardens
Weatherization
Clean Energy

Wild crafting Problems on Public & Tribal Lands

- Herbal companies nationwide “pay by the pound”
- Non-traditional gathering methods
- Over harvesting native food and medicine plants
- Tribes passing laws prohibiting wild crafting

The Flip side: Wild crafting “Invasive” Plants

- Many are famous folk medicine plants from the Mediterranean and other places in the world
- Marketed by herbal companies worldwide
- Better to harvest out than poison our lands
- Better than introducing new insects to our lands
- Tribal members can harvest, or Tribal economic development project

Carrizo Cane - Arundo Donax

- Egyptians wrapped their dead in the leaves - used for 5000 years to make flutes and pipes

- Source of “papyrus” better than trees for making paper

- Young stems edible cooked and raw

- Home, boat and utensil building material

- **Source of biofuel-produces more biomass per acre per year than any other known biomass plant -average of 25 tons of high quality fiber per acre twice a year**

- DHS spraying pesticides along the border into our water and on our sacred sites

Purple Loosestrife - Lythrum salicaria

$45 million dollars a year are spent on the control of loosestrife

- Acts as an antibacterial, anti-fungal, anti-inflammatory, and antiviral
    - Heals fresh scar tissue
    - Cleans wounds and stops bleeding
    - Stimulates immune system
    - Used as an eyewash
    - Throat spray for sore throats
- 1868 "sovereign remedy" for cholera

- **Clinical testing:**

Animals treated with a compound very damaging to the liver recovered almost completely when treated with purple loosestrife

In animals treated to induce diabetes, purple loosestrife brought blood sugar levels down to normal

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Hawwih! Thanks!