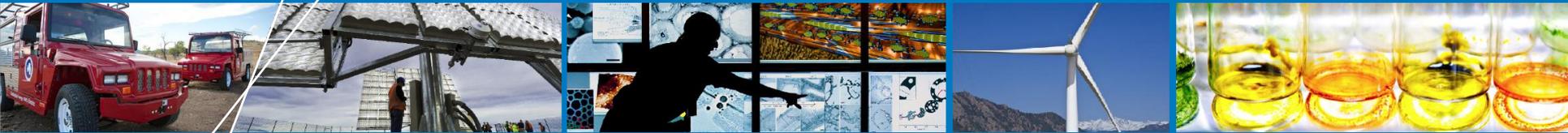


DOE Tribal Energy Program Training

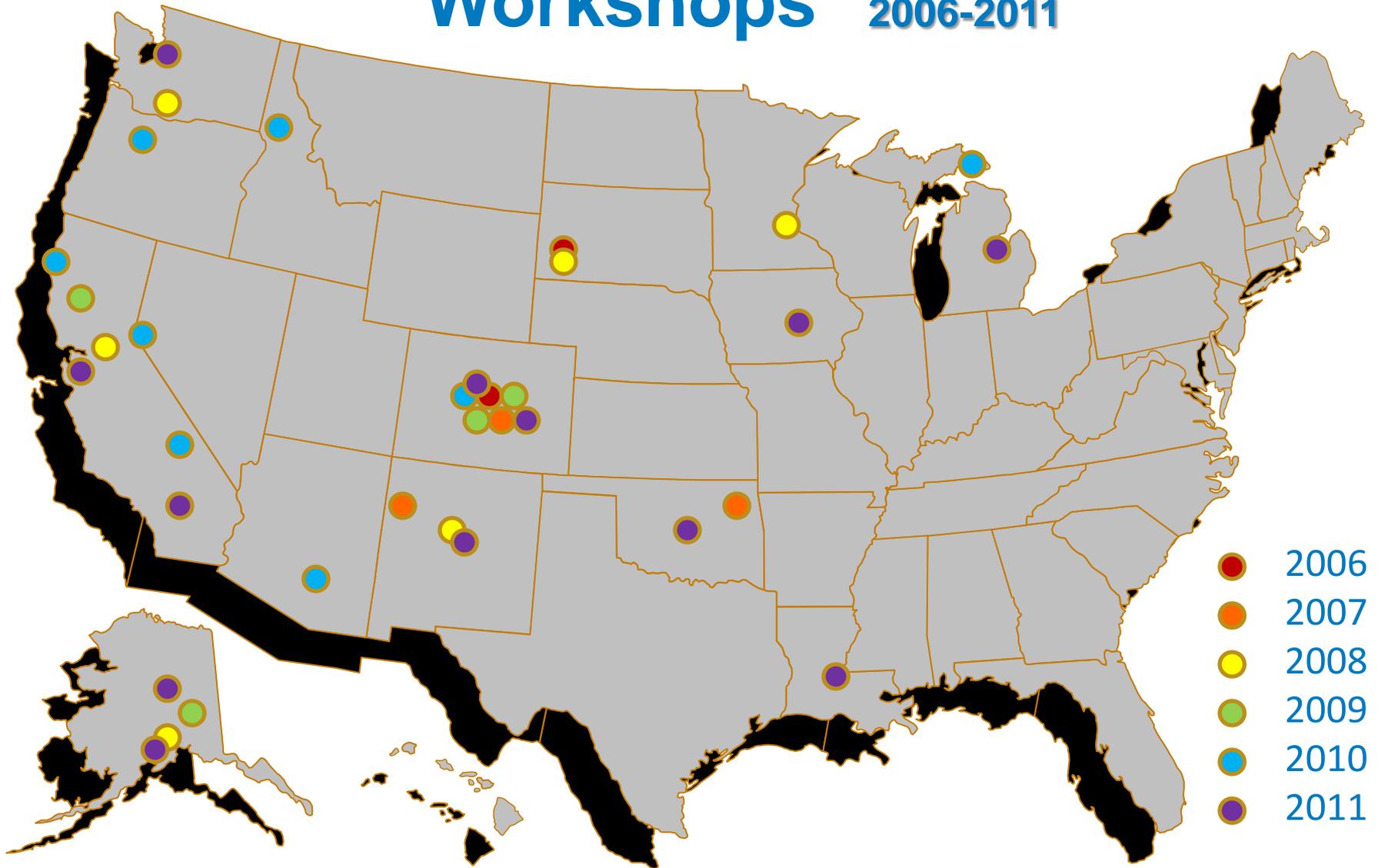


Peer Review 2012

Roger Taylor

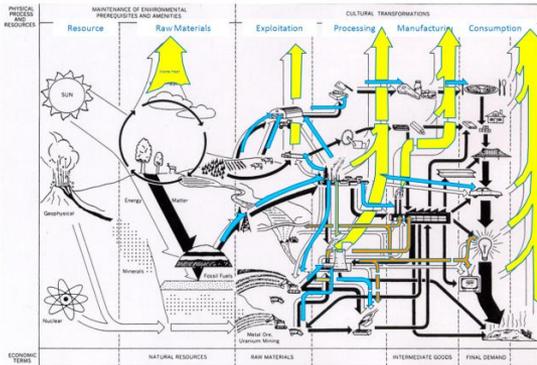
April 24, 2012

35 TEP Strategic Energy Planning Workshops 2006-2011

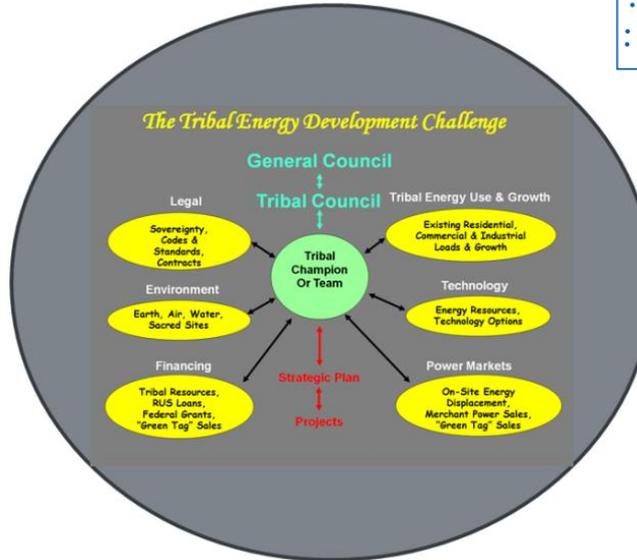


Training – Primary Themes:

Our Energy Predicament



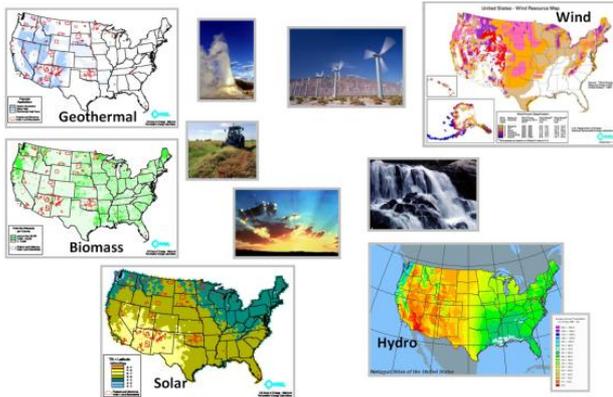
Organizing for Success



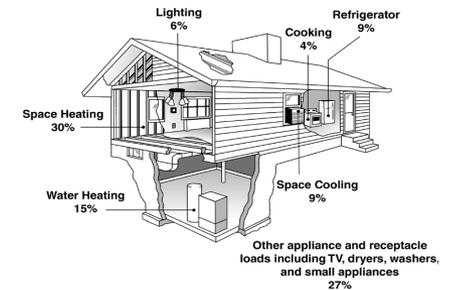
Energy Planning Process



Renewable Resource Options



Energy Efficiency Options



Renewable Technology Options



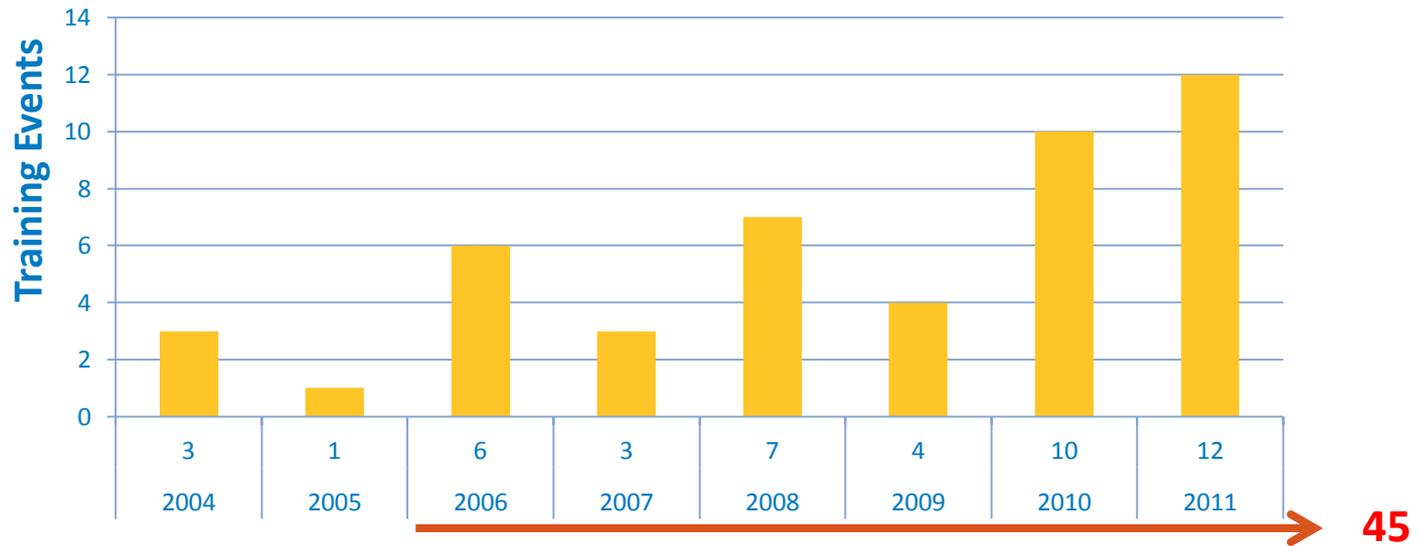
Training

National Workshops – Denver

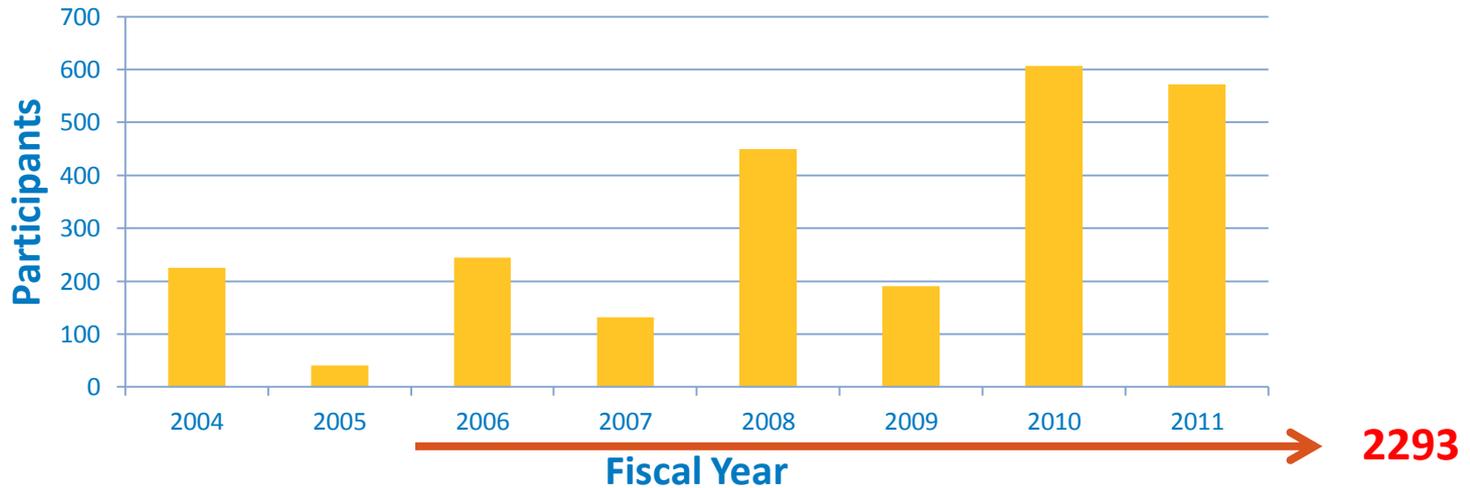
- **EERE for Tribal Community Development**
 - August 2006, 2007, 2009, 2010, 2011
- **EERE Business Development & Financing**
 - 2007, 2009, 2010, 2011

Tribe-specific & Regional *Strategic Energy Planning* Workshops

DOE TEP Training



Annual Participation



ATNI Regional Planning Workshop 2010



DIVERSIFIED ECONOMY

- Being Strategic
- Strategic Energy Plan
 - Focus = Local Level
 - Community Development
 - Energy Development
- Negotiate Rate Increase Agreements
 - Rules & Regulation
 - Chal
 - Knowledge Industry
 - Hydro
 - 1950s
- Energy Education / Training
 - Energy Dictionary
 - Linemen Jobs (Blatte)
- Energy Eff. Proj. e (Casino)
 - Train employees in energy eff. / Energy system
- Inventory Power

SUSTAINABLE ENVIRONMENT

- Baseline Knowledge / Data of climate change
- Energy Usage Knowledge / Data
- Access to traditional foods, resources
- Protect cultural / burial sites
- Dam Removal
 - open salmon habitat

SOCIAL EQUITY

- "Champion" / Leadership
 - Start w/ families
 - Communication to the people about energy conservation
- Start w/ 4th, 5th graders
- Individual get training to use Renewable Res.
- Youth - Elder
- Technology skills of youth
- Radio Programming (National)
- Go-UTUBE

Other notes:

- More Talking
- Points for leaders
- Team Work e all Levels
- Policy → community acquire Resources
- Networking
- Partnerships w/ Corporations
- intertribal communication
- Govt / Institutional communication
- DOE - DOI
- Develop our own Models of Success
- Balance Use - Production
- Water
- Land
- Plants
- Animals
- Project (NRE)
- Culture History
- Base Hits

Tohono O'odham

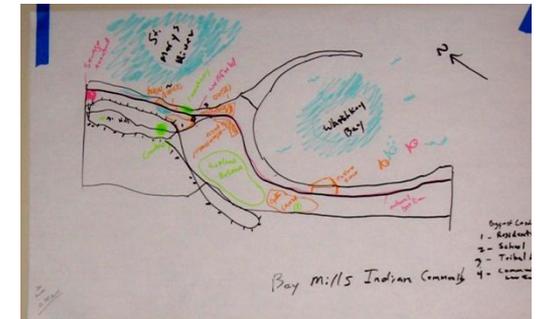
January 2010 RE for TCD Planning Workshop
February 2012 MW-scale Solar Development Plans



Sault Ste. Marie June 2010



Biodiesel production from waste oil.



Sault Ste. Marie June 2010

WHAT ARE ENERGY TECHNOLOGY PRIORITIES

- 10 ● EDUCATION / TRAINING / MAINTAINANCE
- FUNDING
- 7 ● LOCAL SOURCES
- SMALL-SCALE BIOMASS ???
- RDF - MSW
- A-D
- SOLAR DHW
- SOLAR PV
- GHP

CHALLENGES TO DEVELOPING COMMUNITY ENERGY CHAMPION?

- TIME (LACK OF)
- 5 ● TRIBAL SUPPORT (SAME PAGE)
- TURF

CHALLENGES DRAWBACKS TO RE IN REGION

- 5 ● COST (FUNDS)
- RURAL (DISTANCE)
- ANTI-TECHNOLOGY
- ZONING / BLDG CODES
- CLIMATE / 4 SEASON
- 6 ● EDUCATION
- NIMBYism
- INTEGRATION w/ ~~NON-TRIBAL~~ COMMUNITY



EDUCATION

WHO? TRIBAL LEADERSHIP COUNCIL
→ MEMBERS
EDUCATORS

HOW?

WHAT? COMMUNITY MEETINGS
WORKSHOPS
T-NEWSPAPER
WEB SITE

NEXT STEPS?

- ID OBSTACLES
- KEY STAKEHOLDERS
- 10 ● NEED A PLAN
- INTEGRATION w/ LOCALS
- INTERACTION w/ TRIBAL LEADERS
- "ID" CHAMPION
- CANADIAN CONNECTION?
- LOCAL BUSINESS FORMATION

KEY ENERGY ISSUES IN REGION

- 6 ● EDUCATION
- FOSSIL FUEL COST
- ↑ ENERGY DIVERSITY
- MOBILITY
- LIFE STYLE
- 4 ● TRANSMISSION - INTERCONNECTION
- CHECKER BOARDED
- ENVIRONMENTAL POLLUTION
- DEFORESTATION (ENV & LOSSING)
- TRIBAL EXCLUSION
- WEATHER (WINTER)
- BUILDING CODES
- 4 ● TRIBAL UTILITY
- CARBON TAX

Intertribal Council of NV August 2010

WHAT ARE PRIMARY ISSUES FACING ITCN TRIBES?

- 3 POLITICS
- 2 LACK OF BUSINESS INFRASTRUCTURE
- TRIFAL
- LACK OF ATRAL
- FUNDING
- EDUCATION
- INTERNAL EXPERTISE
- ADMINISTRATIVE CAPABILITY
- GRIDS ACCESS
- SCHEDULING BUREAUCRACY
- CULTURAL IMPACTS
- WATER/FOOD IMPACTS
- NATURAL RESOURCE VALUATION



WHO ARE THE STRATEGIC PARTNERS?

<ul style="list-style-type: none"> 5 EPA DOE/NREL OTHER TRIBES ITCN UN Reso DRI USDA DOJ CONGRESS REPS NDEP GRACIA ANA D of LABOR 	<ul style="list-style-type: none"> NV Comm Serv Dir NV Energy BLACKFOOT SOURCE ORPMT CHUBBON SLEMENS WGA ATNI JBA
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WHAT ARE BENEFITS OF RE TO ITCN TRIBES?

- ENERGY \$ & ENERGY PRICE STABILITY
- CO2 FOOTPRINT
- ECON DEVELOPMENT
- ↑ ENVIRONMENT
- EFFICIENT USE OF RESOURCES
- JOB
- TRADITIONAL BUS
- ENERGY INDEPENDENCE (W/OIL)
- EDUCATION
- ↑ SUSTAINABILITY
- SHARING OF BEST PRACTICES
- HEALTH BENEFITS

NEXT STEPS?

ITCN	TRIBES
<ul style="list-style-type: none"> CHAMPION ENERGY SURVEY EXISTING RESOURCES BASELINE DATA LEGISLATIVE AFFAIRS 	<ul style="list-style-type: none"> INDIVIDUAL RESOURCE ASST.

WHICH TECHNOLOGIES ARE PRIORITY IN ITCN AREA?

<ul style="list-style-type: none"> ES/ WIND GEOTHERMAL SOLAR WIND BIOMASS HYDRO COMMUNITY UTILITY 	<ul style="list-style-type: none"> MSW AMBIENT DISTRICTS FEED COPS CANALS SEWAGE POD WHITE BIO-DIESEL
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WHAT ARE THE DRAWBACKS TO RE DEVELOPMENT?

- COST
- OEM
- LACK OF EXPERTISE
- LACK OF TRANSMISSION
- FINANCING
- CULTURAL IMPACTS
- POLITICS
- ESTHETICS
- IMPACT ON EXISTING BUSINESS
- WATER SOURCE
- COMPETITION
- ENVIRONMENTAL IMPACTS

WHAT IS THE PROPER ROLE OF ITCN IN THIS PROCESS?

- COORDINATION / CONSULTING
- \$ POOLING
- BUSINESS SCREENING
- STRENGTH IN #
- STANDARDIZATION
- FACILITATION / NETWORKING
- LEGISLATIVE AFFAIRS / ADVOCACY
- INFORMATION DISSEMINATION
- TRAINING
- CLEARING HOUSE (GRANT INFO)
- GRANT WRITING
- DEVELOP PARTNERSHIPS
- POOLING FOR LARGER PROJECTS

Northern CA – Blue Lake Rancheria August 2010

