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NATIVE RENEWABLES ENERGY SUMMIT SOLUTIONS FOR TRIBES & CITIES

NATIVE RENEWABLES WILL REVITALIZE
NATIVE COMMUNITIES AND OFFER CITIES
CLEAN ELECTRICITY TO MITIGATE AIR
POLLUTION & CLIMATE CHANGE.

PRESENTATIONS BY ORDER:

- ▶ WINONA LADUKE, HONOR THE EARTH
- ▶ TOM GOLDTOOTH, IEN
- ▶ BOB GOUGH, INTERTRIBAL COUP
- ▶ TOM BOUCHER, NATIVE ENERGY, LLC
- ▶ SUSAN ODE, ICLEI
- ▶ LANCE MORGAN, HO CHUNK INC.
- ▶ TEX HALL, THREE AFFILIATED TRIBES

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DENVER, CO Nov 15-17, 2005



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Native Renewables Energy Summit

November 16th - 8:50 am

Welcoming Remarks: **Pat Spears, President / Bob Gough, Secretary, Intertribal COUP**
Appointed Chairs & **Tom Boucher, President, Native Energy / Susan Ode, Outreach Officer, ICLEI**
Conference Organizers: **James Mills, President, DCIAmerica / Jim Hurt, Project Coordinator, DCIAmerica**

Core Message: Tribes and Cities Can Help Each Other.

At a time when the government in Washington is as paralyzed as it is polarized, it becomes all the more important for progressive forces to find new goals and rallying grounds at the state, local & tribal levels. Supporting Native Renewables both in capital markets and for local “healthy” community development will do just that. With Green Tags and Renewable Energy Credits, Native Renewables projects can generate immediate financial rewards to revitalize Native economies. In the long run, they offer Tribes a way to invest wisely in sustainable economic development. For towns & cities, Native Renewables offer clean electricity to mitigate air pollution and climate change.

Keynote & Morning Speakers

9:00 Winona LaDuke, Executive Director, Honor The Earth & Green Party Vice-Presidential Candidate

The Future of Native Renewables and the special role and opportunity for Tribes.

9:25 Tom Goldtooth, Director, Indigenous Environmental Network

“The Impact of Climate Change On Indigenous Peoples - Challenges & Opportunities”

9:45 Pat Spears and Bob Gough, Intertribal Council On Utility Policy (Intertribal COUP)

Regulatory and utility related challenges to Native wind development projects.

10:15 Tom Boucher, President, Native Energy, LLC

How “green tags” markets can enable tribal and city governments and corporations to fund their own green energy agendas, starting with a review of the Rosebud Sioux wind projects.

10:40 Break

10:50 Susan Ode, Outreach Officer, ICLEI Local Governments for Sustainability & Climate Protection:

“Tribal Renewable Energy & Local Community Climate Goals”

11:15 Mauri Miller, formerly with Kenetech, now an independent wind project financier with DISGEN, Inc.

“Overcoming The Real Challenges To Wind Development: Bringing The Power To Market”

11:35 ICLEI Breakout Section & Panel on Climate Protection Goals

Addressing the implications of wind development for tribes and cities and how to design community outreach strategies to realize Climate Change goals. Questions to be addressed:

- **First:** Can and should The Tribes, as sovereign nations, formally sign and join with the signatories of the newly ratified Kyoto treaty? Short of that, should the tribes actively support Treaty goals and, how and in what way?
- **Second:** Susan Ode from ICLEI notes that only nations recognized by the UN are parties to the protocol. Local governments are not parties to the protocol. How should state, city & local governments, as well as Tribes, support Kyoto’s climate goals?
- **Third:** How will the newly ratified Kyoto treaty impact on efforts to fulfill US Renewables Portfolio Standards? What implications are there for Green Tags and Renewable Energy Credits (RECs)? Can European carbon credits be traded for US green tags & RECs? Overall, how can Tribes position themselves to anticipate and capitalize on state-wide Renewables Portfolio Standards?

12:15 Lunch: Keynote Luncheon Speaker, Lance Morgan, President, Ho Chunk, Incorp.

“Healthy Community Development” models for developing and reinvigorating Native Communities.



Winona LaDuke



Bob Gough



Tom Boucher



Lance Morgan

mit - Solutions For Tribes & Cities

Government Support for Native Renewables Projects

- 1:30** **Chris Tuttle, Team Leader, Operations Branch, Southern Regional Division, USDA Rural Utilities Service (RUS)**
“Rural Development Programs Supporting Tribal Energy Projects.”
- 1:50** **Bob Middleton, Bureau of Indian Affairs**
Supporting the “Rosebud” Sioux wind project and the importance of that precedent for future Native wind projects.
- 2:15** **Roger Taylor, Manager, Tribal Energy Program & Larry Flowers, Director, Wind Powering America, US Dept. Of Energy, National Renewable Energy Laboratory**
NREL’s support for Tribal wind. Possible topics include Project Feasibility, getting the power to market and environmental review.

Wind Project Finance, Feasibility and Development Issues

- 3:00** **Tim Libson, President, Trintek Energy Consulting**
“Third Party Financing”: How to Utilize Green Tags, Production/Investment Tax Credits and Depreciation Benefits for Institutions and Corporations.
- 3:25** **Dale Osborn, President, Distributed Generation, Inc.**
The status of recent and future projects, including expansion of the “Rosebud” Sioux wind farm and the new Ponnequin Wind Facility in Weld County, Co. He will also address project feasibility issues from lessons learned in the field.
- 3:50** **Break**
- 4:00** **Track One:** Examine different aspects of project finance with presentations from a number of Renewables finance groups.
- 4:00** **Track Two:** A venue for wind industry viewpoints on both technology and project finance and feasibility.
- 5:00** **Adjourn**

November 17th - 8:45

Decentralized Generation and Transmission Issues For Wind, Solar and Bio-Energy

The second day will review wind, bio-fuels and photovoltaic (PV) technologies within the context of decentralized energy alternatives (DEAs). Wind is leading the way into a new energy paradigm with bio-fuels, solar and new co-generation strategies following suit. Yet, without a new approach to electrical engineering that supports decentralized, distributed generation with enhanced efficiency and storage, then, the Renewables revolution will be much delayed.

9:00 Conference Chairs will introduce keynote speakers for the second day. Confirmed & Invited Speakers include:
Tom Goldtooth, Director, Indigenous Environmental Initiative / Tex Hall, Chairman, MHA Three Affiliated Tribes / Winona LaDuke, Honor The Earth / Rep. Stephanie Herseth (SD)/ Gov. Bill Richardson, (NM) (invited)



Tom Goldtooth

Decentralized Energy Alternatives (DEAs) and Distributed Generation (DG)

Rising grid failures throughout the world signify the need for a new type of grid that is inherently more efficient and flexible and more closely integrated with decentralized, distributed generation (DG). According to EPRI, the cost of power outages and power quality disturbances cost US businesses \$120 billion per year, not counting the cost of spot market price spikes that brought the state of California to the edge of bankruptcy a few years ago. The following presentations outline a new solutions for the grid that will support diverse DG Renewables & storage applications as well as improved transmission capability for wind development.



Chairman Tex Hall

Steve Begay, DINE Power Authority

“New Bulk Transmission Capacity for Traditional and Renewables Generation”

Ed Weber, Western Area Power Administration (WAPA)

“Expanding Transmission in the New Age of Electricity”

Larry Ahasteen, Navajo Tribal Utility Authority

Local transmission issues and solutions for wind & solar distributed generation, i.e. the Fort Defiance PV/wind project in Arizona.

11:00 **Break**

New Electrical Engineering - The Case for "Direct Coupling" for Solar and Co-Generation

Bill Wilhelm, the inventor of "Direct Coupling" will discuss the central flaws of the AC grid and building side AC electrical system. He will then discuss how to circumnavigate these problems with a new electrical engineering approach – "direct coupling" – which is based on a DC power standard and a new kind of AC/DC interface. This unique methodology eliminates gross waste from AC/DC conversion at the load end (in electronic appliances and dc motors) and DC/AC inversion for on-site power supplies (PV, battery and fuel cell applications). It greatly enhances effective yield from intrinsic DC power sources, i.e. photovoltaics (PV), batteries, fuel cells and advanced, DC, co-generation systems. Mr. Wilhelm's talk will preview presentations on solar power by Nextek Power Systems for the afternoon session.

12:15 Luncheon Speaker (to be announced)

1:30 Presentations and panels for the entire gathering are under development and will be announced soon.

The remaining afternoon sessions will be composed of two tracks, one on solar and one on bio-energy.

Solar Photovoltaic Applications - New Solutions to Old Problems

Paul Savage, President, Nextek Power Systems will describe working examples of the "Direct Coupling" approach to PV, battery and co-generation applications and implications for future markets. His talk will highlight the superior efficiency of Nextek's DC approach to PV integration and lumen harvesting as compared to standard inverted PV systems. Direct Coupling is equally well suited for low light as well as full, direct light conditions when inverted PV systems would turn off or generate power erratically.

Reps from Uni-Solar will talk about rapid market growth and new advances in quality and cost reduction for amorphous PV panels made from their proprietary thin-film, vapor-deposited amorphous silicon (a-Si) alloy. Crystalline PV is a great product and still the industry standard but is quite expensive and highly energy intensive to manufacture. Producing panels that require almost as much energy to make as they produce over their working lifetimes is not an economic way to generate clean electricity.

Reps. from NREL will review recent advances in PV technology, new solar projects and their goals in the field.

Co-Generation - The afternoon session will also review new engineering approaches for combined solar & co-generation applications for on-site building applications.

New Bio Energy Technology & Markets

Please Note: Recommendations from NREL and other sources are being pursued to complete the Bio-Energy session. A revised agenda with recent confirmations will be sent out shortly. - J. Hurt, 8/05/05

Roger Taylor, US Dept. of Energy will provide an overview on Biomass Technology, including a review of "Gas to Liquids" Technology.

Robert Walt, Co-Founder, Community Power Corporation will speak about on-site co-generation for combined heat & power applications using wood chips, a major renewable resource that can be harvested from Native lands.

Stephen Thomas (or another representative), from **The Cabazon Band of Mission Indians** in Indio, CA will describe the energy park and recycling system being developed for part of the municipal solid waste stream from San Diego, CA. The system will produce both fertilizer and compressed energy pellets for many types of wood and coal furnaces.

Daryl Williams from the **Tulalip Tribe** (WA) will discuss their work with the dairy industry north of Seattle on a "regional anaerobic digestion system" to generate methane from cow manure. Wide applicability is anticipated.

4:00 Adjourn for closing plenary statements and announcements prior to Round Table planning session.

A Tribal Round Table planning session with Winona LaDuke, Bob Gough, Tom Goldtooth, Tex Hall and Tom Boucher among others will meet in the late afternoon to discuss new events and public outreach for 2006 and beyond.

For updates on agenda and the Conclave of Tribal Leaders & US Mayors on the afternoon of November 15, 2005, see www.dciamerica.com

Native Renewables Energy Summit Solutions For Tribes & Cities

Originating Sponsors

DCI America*
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Honor The Earth*
Indigenous Environmental Network (IEN)*
Intertribal COUP (Council On Utility Policy)*
Native Energy, LLC*
Native Wind Powering America, Inc. (NWPA)*

Tribal Organizations

Dine Power Authority*
Ho Chunk Inc.
Mandan, Hidatsa & Arikara Nation, Three Affiliated Tribes
Navajo Tribal Utility Authority (NTUA)*
National Indian Gaming Association (NIGA)

Government Organizations:

US Department Of Energy - National Renewable Energy Laboratory*
US Bureau of Indian Affairs / US Department of Interior
USDA Rural Utilities Service / Western Area Power Administration (WAPA)

Academia

Northern Arizona University / Texas Tech University / PACE University,
Columbia Business School / American Indian Higher Education Consortium (AIHEC)

Environmental/Energy

American Council On Renewable Energy (ACORE)* / Apollo Alliance*
Energy Future Coalition / Northeast Sustainable Energy Association (NESEA)
Union of Concerned Scientists (UCS) / Western Resource Advocates

Finance

Key Bank - Native American Financial Services / Commons Capital LP
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Navigant / Native American Bank (and more)

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Nextek Power Systems* / Uni-Solar / Green Mountain Energy
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- ◆ Tribal CEOs
- ◆ City and Town Managers
- ◆ Economic Development Members
- ◆ Planning Board Members
- ◆ EPA Members

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