

Citizen Potawatomi Nation



John A. Barrett – Chairman

Linda Capps – Vice Chairman

D. Wayne Trousdale – Secretary/Treasurer

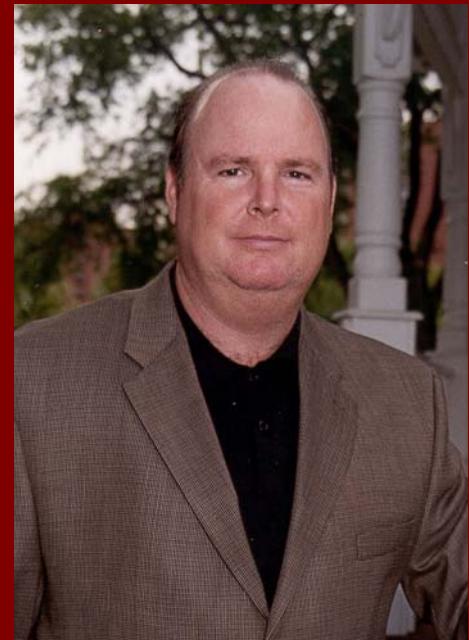
Tribal Leadership



John A. Barrett
Chairman



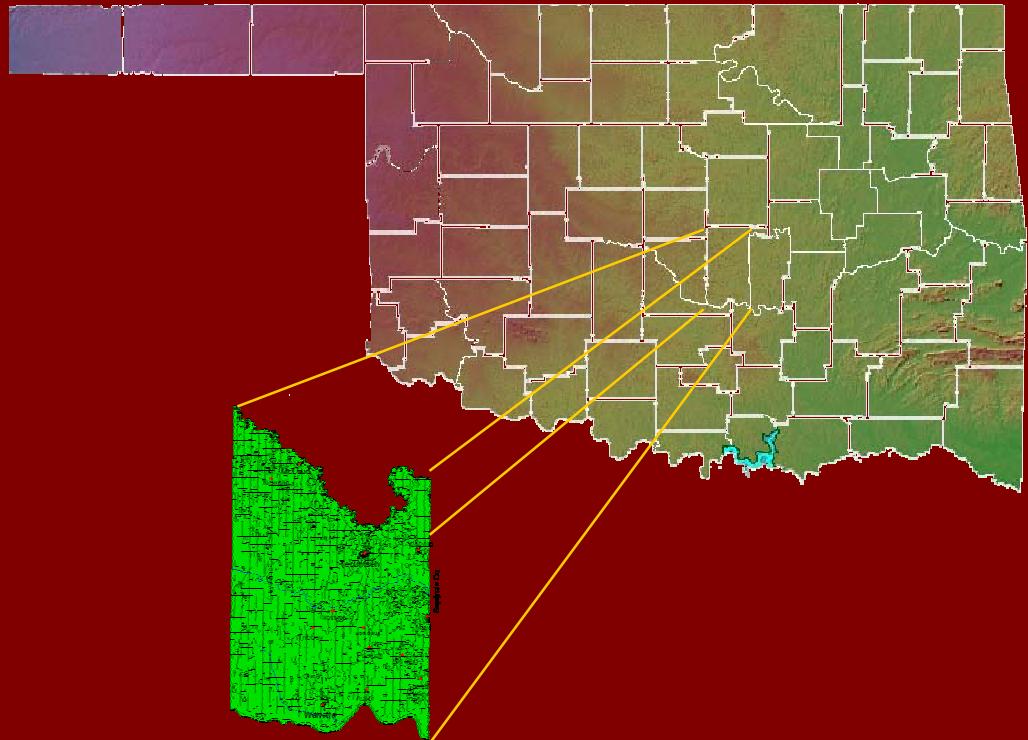
Linda Capps
Vice Chairman



D. Wayne Trousdale
Secretary/Treasurer

Located in Shawnee, Oklahoma

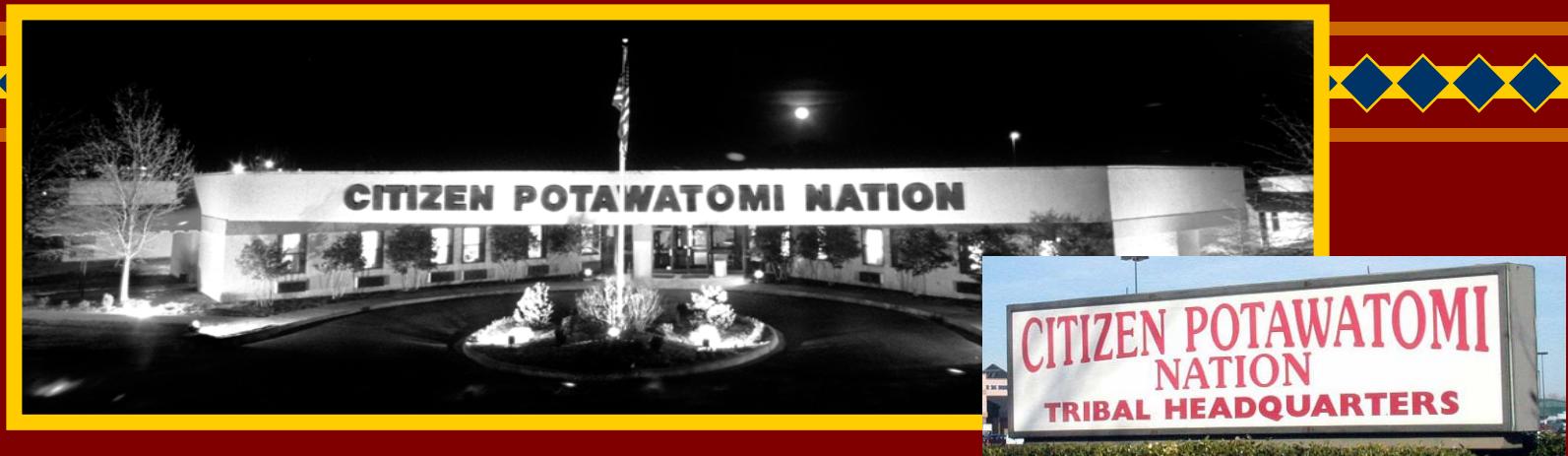
- Citizen Potawatomi purchased allotment lands consisting of a small 900 square mile parcel
- The largest part of the Potawatomi made their way to the new reservation in the 1880s.





Humble Beginnings

CPN Headquarters



The Tribal Administration Building houses:

- Administrative Offices
- Office of Self Governance
- Enterprise/Tribal Accounting
- Title VI Elderly Program
- Tribal Rolls
- Human Resources
- Employment and Training
- Purchasing
- Cultural Resources
- Networking
- Child Development Center
- Occupied February 1998

Economic Impact

A faint, semi-transparent background image of the United States flag, showing the stars and stripes.

2004 Community Impact = \$117,343,847

2003 Community Impact = \$84,979,660

2002 Community Impact = \$73,087,828

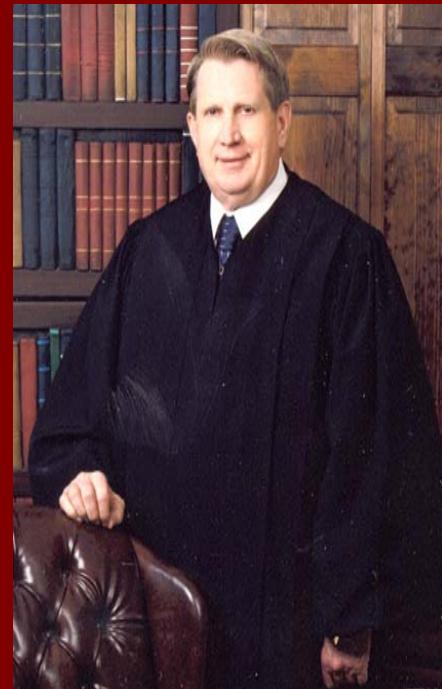
2001 Community Impact = \$56,642,420

2000 Community Impact = \$48,006,270

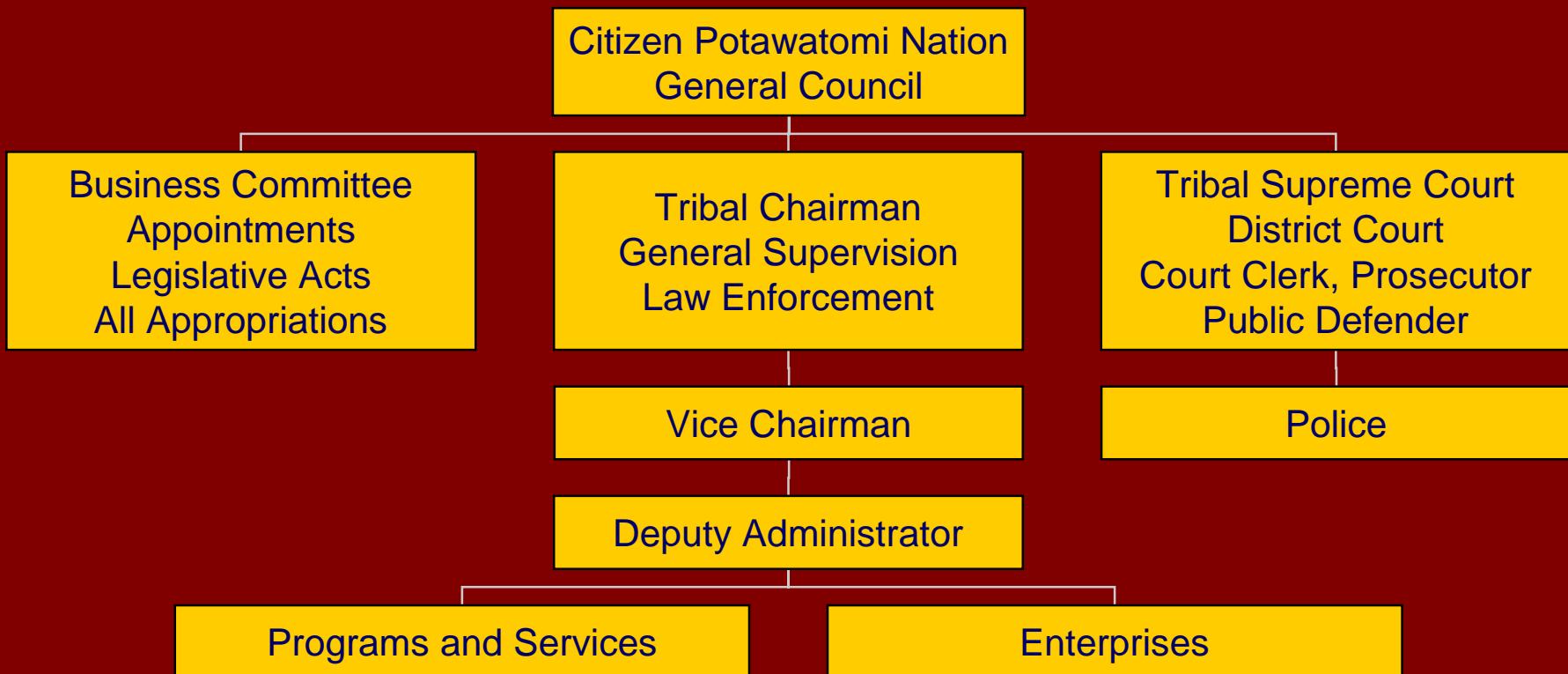
Tribal Court



- In operation since 1986
- Seven Supreme Court Justices
- Three district court judges
- One prosecuting attorney
- One public defender
- One court clerk
- Jurisdiction over any Citizen Potawatomi - anywhere
- Civil jurisdiction over non-Indians.



Citizen Potawatomi Nation Tribal Government Structure



Cultural Resources



- Preserve Potawatomi Culture
- Language Classes
- Historic Preservation
- Archaeology



Jurisdictional Programs and Activities



Health Complex
Clinic ~ Pharmacy ~ CHRs
Contract Health ~ Optometry
Dental ~ Audiology
Behavioral Health ~ Substance Abuse

FireLake Wellness Center



Child Development Center

- One of Only Two Two-Star Child Development Centers in Pott. County
- Current Capacity - 405



First National Bank & Trust Co. of Shawnee



Main Bank



FireLake Branch



With solid earnings performance for the past six years, First National Bank is the fastest growing bank in Shawnee and the community's **only** locally owned bank.

FireLake Casino

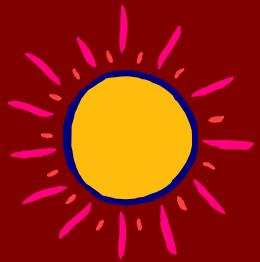


FireLake Farms

2,500 Acres (Approx.)
2 Full-time employee
Best suited for agriculture production

- Hay
- Horticultural Produce
- Field Crops





Hot

Dry



Oklahoma Weather

Irrigation system for expansion of horticulture production.



CPN Housing Authority

- Emergency rehabilitation loan program



- Down payment and closing cost assistance grant

FireLake Golf Course



Geo Thermal Pond



Geo Thermal Pond



Geo Thermal Pond



Geo Thermal Pond



Cultural & Heritage Center



52,000 Square Feet

Firelake Discount Foods



◆ 84,000 Square Feet

FireLake Discount Foods



Overview of Project

◆ Features to be Implemented

- Integration or Sharing of HVAC Loads
- Ground Water Development for Water Source Heat Pumps
- Heat Recovery from FDF (Grocery Store) as Energy Source for
 - Green Houses
 - Other systems in the future

Integration or Sharing HVAC Loads



Integrating component be a water-based system consisting of a combination of

- ponds, water supplies,
- Heat source from FDF (grocery store) evaporative condensers

◆ Buildings include

- FDF (large source of heat from A/C & Refrigeration heat rejection),
- Casino (100 of 298 tons cooling with pond source)
- and three greenhouses (in-floor heating with evaporative condenser heat; cooling with swamp coolers)

FireLake Golf Course



Originally water was pumped from a well 24 hrs daily at 55 gpm only to water the golf course.

This water is now being used to also supply water for the adjacent new Heritage Center 100 ton GHP systems.



Ground Water Development For Ground Source Heat Pumps



- ◆ Apply Success of new Heritage Center
 - Small pond fed with water pumped from aquifer
 - 100 tons cooling with a 77 degree maximum temperature returning to heat pumps
- ◆ Include retention pond feature

FireLake Discount Foods

A large source of heat energy: Potential to supply a car wash, or greenhouses, or laundry or similar business



Heat Recovery from FDF as Energy Source for Greenhouses



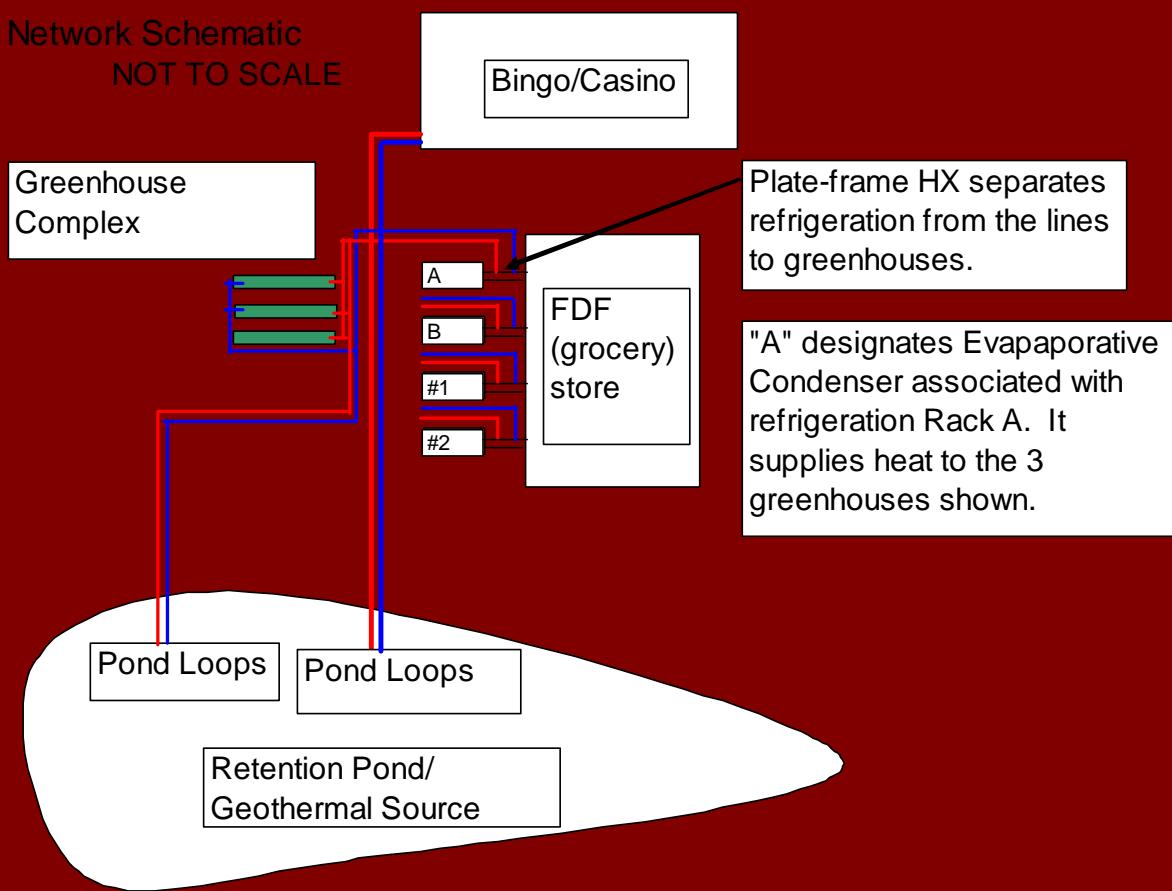
- ◆ A maximum of 6437 MBtuh is rejected from FDF evaporative condensers which can be utilized.
- ◆ Water heated through plate frame heat exchangers in contact with refrigerant is pumped through pipe in floor of greenhouses to heat the space.

FDF Evaporative Condensers



System Network Schematic

Network Schematic
NOT TO SCALE



FDF Evaporative Condensers



Table 3. FireLake Discount Food Store Evaporative Condenser Rejection Heat Rates

RECOLD Evaporative Condenser					Water Side Plate Frame HX		
		Condensing Temperature, °F	Total Rejection Heat, MBtuh	% Load	Leaving Water Temp., °F	Entering Water Temp., °F	Flow Rate, GPM
Rack A	JC200	90	1242	19.3	87	70	146.2
Rack B	JC165	90	866	13.5	87	70	101.9
Rack AC Chiller #1	JC200	90	2164	33.6	87	70	254.6
Rack AC Chiller #2	JC200	90	2164	33.6	87	70	254.6
		Total	6437				

Summary: Networking Pond, Greenhouses and Three CPN Facilities



- ◆ Pond provides coupling among all facilities
- ◆ Greenhouses networked with FDF evaporative condensers and pond (6437 MBtuh heat is normally wasted from the evaporative condensers)
- ◆ Provides a sustainable business venture:
 - produce is raised in greenhouses
 - sold by the FDF (FireLake Discount Food) Store
 - greenhouses gives employment for tribal members
- ◆ GHP systems in Casino saves energy, has low cost Operation & Maintenance.