

Tanana Chiefs Conference (TCC)

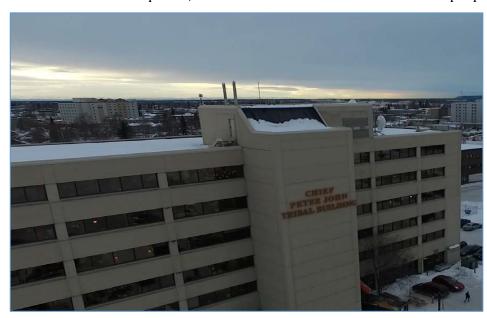
Auditor: Nortech Audit date: April 2014

The Tanana Chiefs Conference is a traditional tribal consortium of 42 villages in Interior Alaska. TCC was officially formed in 1962, but tribes in the region have been banding together for over 100 years. Today, the tribal organization offers health and social services to members while balancing traditional Native values with modern demands.

TCC joined the pilot project after the application period had ended. It had already received two audits, completed by Nortech, for its two largest Fairbanks buildings through the AEA commercial energy audit program in Spring 2014, and joined FNRP for the technical assistance and the opportunity to use loan financing.

Mission

To provide a unified voice in advancing sovereign tribal governments through the promotion of physical and mental wellness, education, socioeconomic development, and culture of the Interior Alaska Native people.



Building - Chief Peter John Tribal Building

Size: 70,000 ft² **Fuel consumption**

Baseline annual fuel use: 7,667 MBTU

Electricity (1,394,667 kWh / 4,760 MBTU) District heating water (2,907 MBTU)

Baseline EUI: 110 kBTU/ft²/yr

Baseline annual energy costs: \$327,154

Electricity (\$217,718)

District heating water (\$72,246)

Electric demand (\$37,190)



Audit recommendations - Chief Peter John Tribal Building (Completed retrofits in black)

Recommendation		Predicted	Actual cost	Contractor	Date	Notes
		costs			completed	
Heating/Cooling						
1.	Repair head bolt heater timers	\$286	N/A	TCC	2014	The TCC maintenance department has
	and implement a schedule			maintenance		its own energy audit process and
2.	Replace electric water heater	\$4,455		department		timeline to establish priorities and
3.	Put DHW pump on a timer					complete the remaining recommendations in the future.
HVAC						recommendations in the future.
4.	Program exhaust fan	\$440	N/A	TCC 2014 maintenance	2014	
5.	Retro-commission the HVAC	\$21,000				
	system			department		
Lighting/Electric						
6.	Install VendingMiser controls	\$750				
7.	Replace fluorescent and	\$141,576				
	incandescent lamps with LEDs					
		Total:				
		\$168,507				



Photo Courtesy of Nortech

Building - Al Ketzler Sr. Building

Size: 30,000 ft² **Fuel consumption**

Baseline annual fuel use: 3,505 MBTU

Electricity (428,948 kWh / 1,464 MBTU) District heating water (2,041 MBTU)

Baseline EUI: 117 kBTU/ft²/yr

Baseline annual energy costs: \$129,695

Electricity (\$66,608)

District heating water (\$50,766)

Electric demand (\$12,321)

Audit recommendations - Al Ketzler Sr. Building (Completed retrofits in black)

Recommendation		Predicted	Actual cost	Contractor	Date	Notes
		costs			completed	
Heating/Cooling						The TCC maintenance department
_	head-bolt heater timers	\$286	N/A	TCC	2014	has its own energy audit process
and im	plement a schedule			maintenance		and timeline to establish priorities
Ventilation				department		and complete the remaining
2. Reduce	e run time on air handler	\$3,190				recommendations in the future.
units						
3. Retro-c	commission on HVAC	\$19,500	N/A	TCC	2014	
system				maintenance		
Plumbing				department		
4. Re-plur	mb DHW to use an					
indirec	t water heater instead of	\$4,455				
boilers						
5. Put DH	W pump on a timer					
Lighting						
7. Replace flu	orescent and	\$85,954				
incandesce	ent lamps with LEDs					
		Total:				
		\$113,385				