

**PASSAMAQUODDY TRIBE
RENEWABLE ENERGY
PROJECTS**



FUNDING

FEASIBILITY STUDIES

BUREAU OF INDIAN AFFAIRS

\$207,000

EPA:

\$40,000

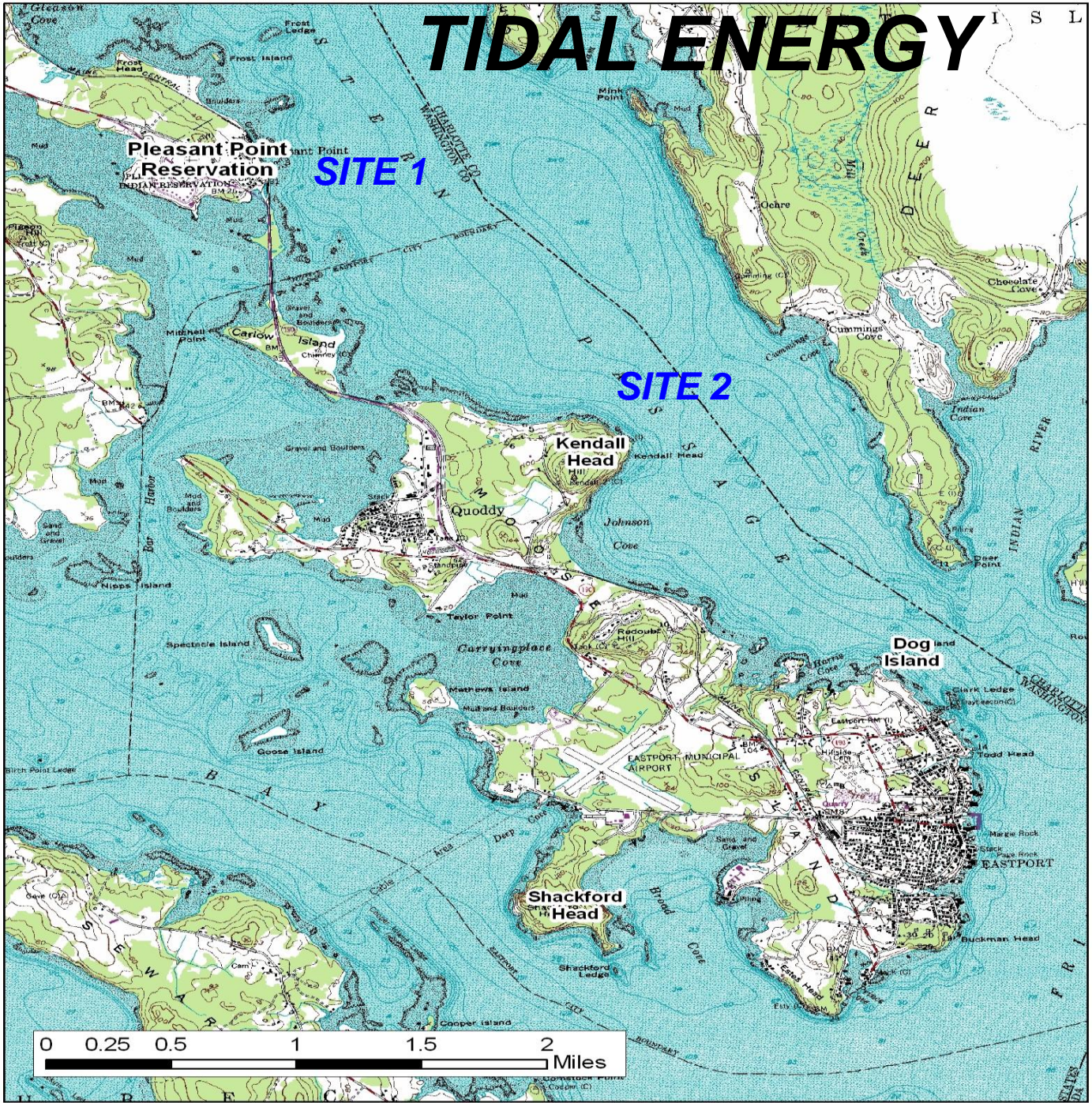


WIND POWER: T-19

***130 MW CAPACITY,
LIMITED TO 50 MW BY
TRANSMISSION LINE***



TIDAL ENERGY





SITE 1

SITE 2

A person is shown in silhouette, performing a yoga pose (Urdhva Dhanurasana) on a beach. The sun is low on the horizon, creating a bright glow behind the person and casting long shadows. The background features a calm sea and a range of mountains under a clear sky.

TIDAL POWER PROJECT

- ***PILOT PROJECT***

- ***1 10FT UNIT, 90 KV, POWER TO TRIBAL SEWAGE TREATMENT PLANT***

- ***FUNDED BY BIA***

UEK CORPORATION

- UEK Corporate description
- Maryland Corporation

- Clean & renewable energy solutions at a competitive cost
- Develop Hydro-kinetic Technology
- Manufacture turbines
- Develop generation projects using technology

Management Advisory Board

- Technical, Power Plant: Dr. Clyde Richards
- Environmental: Dr. Lloyd Lewis
- Finance: Francis DeVilbiss
- Legal: Troutman Sanders LLP.
- Marketing: Jim Paterson
- Liaison: Denise Vauthier
- Local: David Rickards
- Business: Philippe Vauthier
- Business: Todd Jaffe

Product and Technology

- The UEK®System is an enhanced energy converter of kinetic energy contained in rivers and tidal flow.
- Patented technology: (most recent)
 - “Bi-Directional Hydroturbine Assembly For Tidal Deployment”
 - October 31, 2000 (6,139,255)
 - &
 - June 18, 2002 (6,406,351)
- Under development for 23 years

Product and Technology

- The UEK®System is an enhanced energy converter of kinetic energy contained in rivers and tidal flow.
- Patented technology: “Bi-Directional Hydroturbine Assembly For Tidal Deployment” No:- 6,139,255 - October 31, 2000 (USA)



SOME UEK PROJECTS UNDER DEVELOPMENT

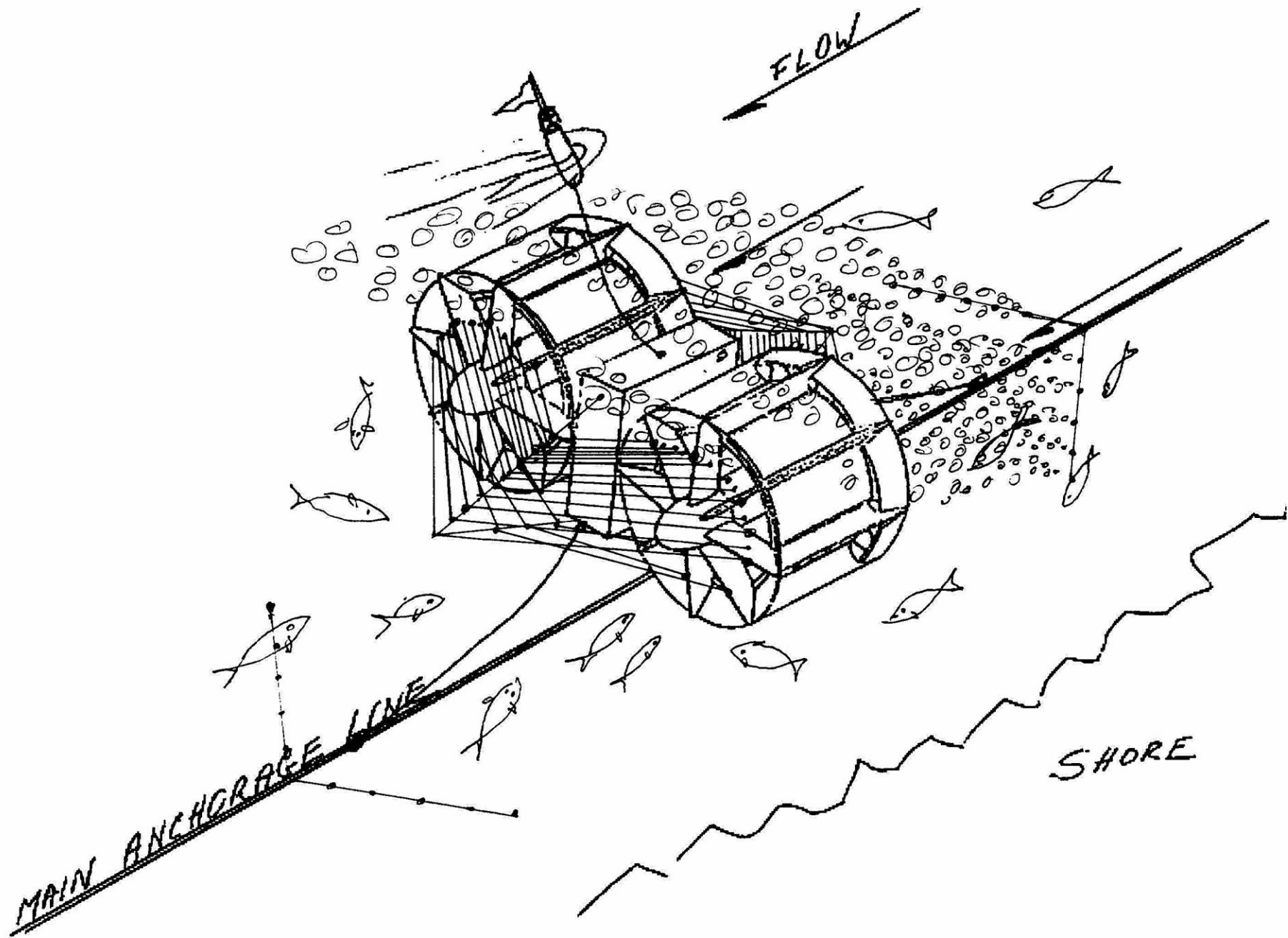
- Eagle, Alaska – Yukon River
- Hospital Mission, Zambia, Central Africa
- Rhone River, Switzerland
- Research project in Northern Manitoba
- Instream demo in North Dakota
- Atlantic Tidal Energy Consortium (ATEC), has chosen UEK for development in Bay of Fundy.
- Bristol Bay, AK



UEK
Technologies



BUBBLESCREEN



Technical

-
- Depth of equipment controllable
- Site identified by buoys
- Built-in drag safety margins
- Maximum 52 rpm (dam turbines spin at 150 rpm)
- Fish screens employed

PILOT PROJECT SEWAGE TREATMENT PLANT POWER

13,000 KWH/M

***10 FT UEK = 12,119 KWH/M
(92% of total needed)***



TRIBAL POWER PROPOSAL 1

- ***LD 229: ALLOWS TRIBE TO FORM POWER DISTRICT, SIMILAR TO MUNICIPALITY***
- ***PASSAMAQUODDY POWER CO ?***
Sell power generated from wind farm and tidal power to local communities

POWER PROPOSAL 2

- ***50 MW FROM WIND, AT \$.065/kwh,
(STANDARD OFFER IS \$.09/kwh)***
- ***29 MW FROM TIDE: 20 – 22 FT UEK
UNITS AT ?? (estimated .05, maybe)***
- ***OFFER GREEN POWER TO LOCAL
COMMUNITIES AT SLIGHTLY
REDUCED OR EQUAL COSTS TO
CONSUMERS***

THE LIMITING FACTOR: TRANSMISSION LINES

