Wind Diesel Smart Grids where wind diesel is going and why

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Chaninik Wind Group Leaders



Small Village, similar in size, resources and culture





Bonnie

Wind generators will lower energy costs and improve the fuel efficiency of the power generators in my village. The community can get its electrical needs all from wind generators without depending on diesel generators. This will save the community thousands of dollars every year



Sarah

We try our best to keep up with costs of fuels and lights. In order to have transportation for survival.



Paul

Installing wind turbines will be great because of high prices of stove oil is too high. Helping reduce electricity bills would help to buy oil to keep the houses warm.



Willie

We would like anything to try to lower energy costs. Our gasoline is rising from \$5.35 to \$7.10 or something like that. Our heating fuel rise to \$8.10. I think we are going to have hardships for some people who don't have jobs this coming winter. Freight is increasing also.



Sam

My house uses electricity every day and night to run the heater, for cooking, for power tools, steam house, lights, freezer, and we use 150 gallons of stove oil per month. You have to use four wheelers to get fuel.... so money go little long before winter. I don't worry about fuel and electric money – they talk about wind power. I really go for it. That's good news to people in our village. I go for better living. We need help from the people that have the power to make these things better.

Annual Average Village Fuel Usage

Gallons











Village Wind Diesel Smart Grids



Thermal Room Heater



Thermal Stove



Thinking of going big!

•	Estimate Total Annual Benefits	= \$ 2	2,480,500
•	Less Increased operations	= -\$	148,000
•	Estimated Project Savings	= \$ 2	,628,500
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•	Home Owner reduced heating fuel costs = \$	563,	,000
•	Increased Revenues to Utility	=\$	439,000
•	Green Tag Sales \$ 4.50/MWhr	=\$	22,500
•	Increased local employment	=\$	139,000
•	18,000 gallons in public facility recovered heat	=\$	90,000
•	125,000 in residential at \$ 8.00	=\$1	,000,000
•	Utility Fuel Savings (75000)	=\$	375,000



Values Drive Trends

Customers will eventually drive the process Must master new technology, can emerge from villages first Think about what makes a difference



My personal obsession about policy

- 1. Pick projects with a strategy (evaluate)
- 2. Tell other folks what your doing and why
- 3, Become reliable partners to carry projects through
- 4. Push the state of the art

