

Press release

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„First Nations“ put on power generation from wood

The Canadian community Kwadacha is not connected to the national grid. Until recently, the electricity was produced exclusively by diesel generators. With the EnergyBlock from Spanner Re² GmbH, electricity and heat production now occurs in a climate-friendly way. The new energy source is wood, which is grown by the local forest management.

Neufahrn i. NB. / Kwadacha. The compact, space-saving container-variation of the EnergyBlock from Re² provides flexibility and autonomy. Three Biomass CHP's each with a performance of 45 kW_{el} and 108 kW_{th} are plugged into the complete turn-key solution. The EnergyBlock can be operated both "On-" and "Off-Grid", providing independently generated energy from an existing grid.

"Fort Ware, in British Columbia, is as one of the furthestmost distant aboriginal-settlements from the civilization in Canada known. There are very extreme weather conditions with a snow depth of up to three meters and temperatures of -40 degrees Celsius. Of course this was a hardness test for the team of Re² and for our constructions. After the first winter and a plant availability of over 80 percent it showed that our patented technique and our team can also handle challenges like this", said Re² project leader Bernhard Seiler proudly.

The EnergyBlock is run exclusively with dead wood from the local area. The electricity and heat produced by burning the deadwood, supplies many households, the local school, a community- and guesthouse as well as four green houses. The produce from the green houses eliminate the need for the 400 km journey that locals take to the distant city of Prince George for groceries.

"Previously over 150,000 liters of Diesel had to be transported over a 1,000 km distance to fuel the community. It took 10 days, at temperatures of -30 to -40 degrees which was a huge undertaking. With our EnergyBlock the community can use their natural resources and also strengthen the economy", said Re² director Thomas Bleul. "This Project is exemplary and we are pleased about our achievement of a new milestone in the direction of the future of energy with our proven Biomass technology", said Bleul.

Picture_1: With the EnergyBlock from Re² the community of Kwadacha produces their own energy after the principle of the cogeneration of heat and power out of their local wood.

Picture_2: interior view of the EnergyBlock - factory-provided pre-staged there are three Biomass CHP's with a performance of altogether 135 kW_{el} and 324 kW_{th} in the turn-key container-solution.

Picture_3: exterior view of the EnergyBlock. The EnergyBlock can be installed in a variety of ways thanks to the modular design.

Pictures: Spanner Re² GmbH