

NGS, BOR WRO <ngs@usbr.gov>

NGS can be retooled to make Solar cells using natural gas

1 message

Vincent Yazzie Tue, May 23, 2017 at 9:30 AM Reply-To: Vincent Yazzie To: "ngs@usbr.gov" <ngs@usbr.gov> Cc: Ed Becenti Nicole Horseherder Percy Deal , Jihan Gearon , Carol Davis , Lori Adella Begaye Goodman Ben Nuvamsa Vernon Masayesva David Palumbo dpalumbo@usbr.gov, Robyn Jackson

May 23, 2017

Vincent Yazzie

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Bureau of Reclamation (BOR)

Dear BOR,

NGS is a cheap power source which can be retooled to burn natural gas to make solar cells including a Navajo Manufacturing industry.

Takes lot of energy to make solar cells. About 1 ton of coal to make 1 kg of electronic grade silicon.

Electronic grade silicon (CVD process): 7,590-7,755MJ (2,108,700 to 2,154,900 watt-hours).

How much energy does it take (on average) to produce 1 kilogram of the following materials?

How much energy does it take (on average) to produce 1 kilogram of the foll...

Wood (from standing timber): 3-7MJ (830 to 1,950 watt-hours). Steel (from recycled steel): 6-15MJ (1,665 to 4,17...

About 5 tons of polysilicon is required to manufacture 1 megawatt (MW) of conventional solar modules [2] Polysilicon is distinct from monocrystalline silicon and amorphous silicon

Vincent Yazzie

Polycrystalline silicon

Polycrystalline silicon

Polycrystalline silicon, also called polysilicon or poly-Si, is a high purity, polycrystalline form of silicon, ...