

Strategic Energy Choices for the Mining Sector

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October 15, 2014

Convergence in the Mining and Renewable Energy Sectors



Host Countries



Renewable Energy



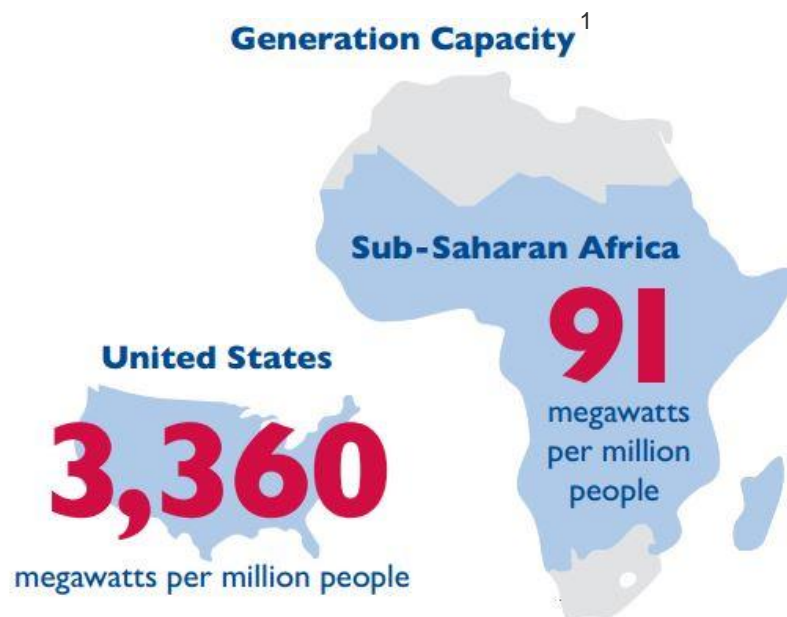
Mining

Infrastructure a Priority in Developing Countries



Compelling Case for Renewable Energy

- ✓ Capital for large-scale hydro-electric generation scarce
- ✓ 35 of the world's least developed countries in Africa
- ✓ 70% of the population of sub-Saharan Africa has no access to electricity



1 light bulb 3hrs/day
average amount of electricity
available per person in least
developed countries

¹<http://www.usaid.gov/powerafrica>

Mining Industry a Catalyst for Change

- ✓ Electricity infrastructure projects enhance social license to operate
- ✓ Severe infrastructure deficit in remote geographic regions
- ✓ Diesel and HFO not cost-effective; not environmentally friendly
- ✓ Industry needs to secure a long-term, low-cost supply of reliable and uninterrupted power



Renewables need to be part of the solution

Mining is an Increasingly Energy Intensive Business

- ✓ Large, high-grade gold deposits increasingly hard to find
- ✓ Pursuing high-grade requires focus on less developed regions of the world with lack of infrastructure
- ✓ As mines age, rock hardness may increase driving up demand for power
- ✓ Cost reduction critical in this low gold price environment
- ✓ Industry must adapt and innovate



Rosebel Creates First Renewable Energy Source in Suriname

**IN EMBRACING RENEWABLE ENERGY,
IAMGOLD IS PROMOTING CONTINUOUS IMPROVEMENT IN ENERGY
USAGE, SECURITY OF ENERGY SUPPLY AND LONG LASTING
CONTRIBUTION TO THE ENVIRONMENT.**

**Rosebel Mine, Suriname
5MW solar power plant**

Evaluating Returns Through a Wider Lens

- ✓ Rosebel's solar power plant will be a legacy to Suriname's power system
- ✓ Contributes to mutually supportive relationship with the government



Opportunity for Alternative Energy Sources at Essakane

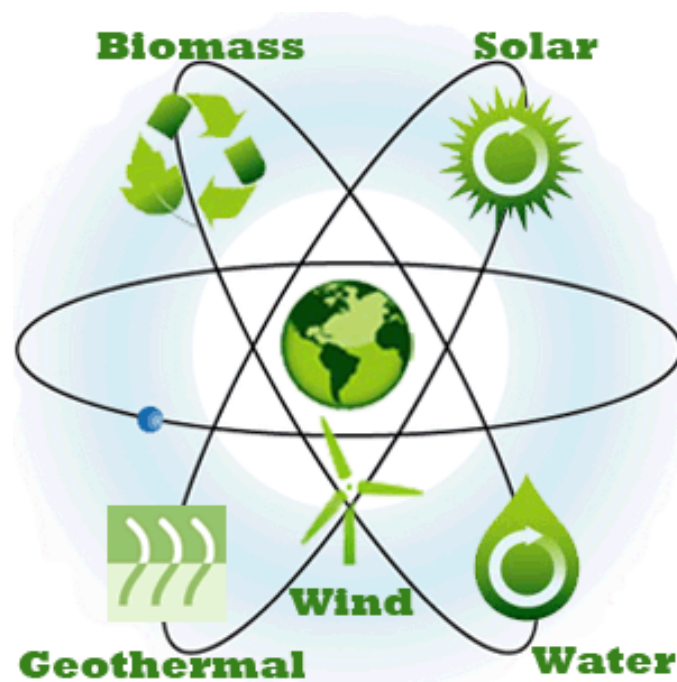
- ✓ Increasing hard rock driving up demand for power
- ✓ Electricity ~25% of total input costs
- ✓ Reducing HFO reliability will drive down costs
- ✓ Pursuing solar power project 4-5 X the size of Rosebel's
- ✓ Grid connection would significantly reduce power costs

Essakane Mine, Burkina Faso

Renewables Need to be Part of the Energy Solution



IAMGOLD
expects
renewables to
constitute 15%
of its global
energy mix in
3-5 years



Energy Conservation – Part of the Solution



Compelling Reason for Emissions Reduction

100 million
tonnes of CO₂
released into the
air every day

We Need to Work Together to Create a Greener Energy Solution

- ✓ Renewables and mining industries need to cross pollinate
- ✓ Renewables are attractive alternatives to traditional energy sources
- ✓ Opportunity to improve energy efficiencies
- ✓ Catalyst for positive change in developing world
- ✓ Need to leverage international mining centers to promote convergence



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