

We are experienced consultants to energy and forestry professionals. Our clients in engineering, business, industry, real estate and government save money, cut power demand and limit use of oil and gas. In a world of false claims about "green energy" we help them see real opportunities, avoiding wasted time and frustration.

Our forestry clients add new local markets for low-grade and increase income while applying the best conservation forestry practices.

Both groups must capture value of emerging markets and technologies without losing sight of demonstrated principles and activities upon which solid businesses have been founded and built. Investments stimulating market growth are possible in biofuels, distributed generation and clean transportation, with a fit into the expanding smart grid system.

Some recent projects and activities:

- Fuel availability and cost studies.
- Process equipment layout and operations plan for energy and fuel manufacturing.
- Report on university energy use and renewable source potential.
- Engineers' survey: biomass as renewable source for commercial building energy.
- invited talks:
 - World Energy Engineering Congress in Washington D.C., December 2010
 - NC Urban Forestry Conference in Raleigh, NC, September 2010
 - Heating the Northeast with Renewable Biomass in Manchester, NH, April 2010
 - Forest Products Society Smallwood Conference in Hot Springs, AR, April 2010
 - Biomass CHP and Thermal Systems Short Course at Penn State University, March 2010

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Integrating sustainable
energy applications with
forestry markets and
resource protection

We can help answer questions like these:

Building Owners, Designers and Contractors

How can we apply for biomass energy grants when ASHRAE doesn't cover that technology?

Is one technology a better fit for heat and cooling applications? solar ...geothermal ...biomass

How do I size equipment? ... pick a designer? ...a contractor? ...a biomass fuel supplier?

What regulations apply?

Do I need back up? Where do I find fuel? Who guarantees service?

Foresters, Loggers and Land Owners

We put an improvement sale up for bid twice with no takers. How can we do better?

If biomass energy really is a good market, why can't we make money in it?

How can we sell biomass fuel without killing our normal pulp and board businesses?



Multi-building renewable energy

Forestry

For low-grade timber sales to break even or turn a profit you need steady, local demand for the wood. Fewer buyers are active, quotas are lower and prices are weaker.



Low-grade hardwood gains value

Good sale income is needed to pay for planning, equipment and manpower to regenerate stands, remove ladder fuel, salvage storm damaged or insect killed trees or enhance biodiversity.

Why team with RPG?

We have worked in forestry for over three decades. Of that, 20 years included biomass energy, buying and selling timber, chips and hogged fuel. We share that experience helping land managers, wood products firms, loggers and foresters build business and improve profits.



Markets enable beetle kill salvage

Many loggers and foresters resist the "big project" approach to bioenergy.

Simple economics justifies the reaction and we can help find local markets that limit high freight expenses.

Give RPG a call and see what may be possible where you work and practice. Let us help you find methods to achieve stand management and sales goals with reduced expense and risk.

Member:

- Society of American Foresters
- Forest Guild
- PA Council of Professional Foresters
- NC Forestry Association
- PA Forest Products Association

Energy

Increasing energy costs affect us all. Department of Energy officials and engineers agree that meeting 21st century energy and climate objectives will take sources beyond solar, wind and efficiency.



Local biomass fuel can be the HVAC option with lowest cost and greatest reduction in both carbon emissions and fossil fuel use. In

a recent national survey, design engineers responded that they want to know more about biomass for commercial class HVAC. Our design options review service can give you an informed answer how geothermal, solar and biomass options match up for your project.

Why team with RPG?

A technical resource for owners and HVAC professionals, RPG offers experience gained over more than twenty years working in conservation, efficiency and renewable energy applications.

We can help you source energy at lower costs while improving your community and its environment. Call for information on results with renewable energy at risk levels at or below conventional fossil sources.

34322	kWh
1113.1	m ²
1.7	kW
240	kW
41.0	l/h

Measuring green heat flow

Member:

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- Association of Energy Engineers (AEE)
- American Society of Agricultural and Biological Engineers (ASABE)