



Edition of Antal International Bulgaria

# GREEN ENERGY

Sector Shot



## FIND:

- Alternative Energy & Antal International 1
- Green Candidates in Bulgaria 1
- Green News 2
- Laws You Need to Know 2
- Green Events—April/ May 2009 3

## TAKE THE SHOT:

•**SOLAR POWER** The fastest growing type of alternative energy is the photovoltaic cell. The Sun yearly delivers more than 10,000 times the energy that humans currently use.

•**WIND POWER** Modern wind turbines range from around 600 kW to 5 MW of rated power, turbines with rated output of 1.5–3 MW are common for commercial use; the power output of a turbine is a function of the cube of the wind speed.

•**HYDRO POWER** In the form of kinetic energy, temperature differences or salinity. Since water is about 800 times denser than air, a slow flowing stream of water yields considerable amounts of energy.

•**GEOTHERMAL POWER** Expensive to build a power station but operating costs are low resulting in low energy costs for suitable sites. Three types of power plants used to generate power from geothermal energy: dry steam, flash, and binary.

•**ALCOHOL** derived from corn, sugar cane, switch grass, etc. Similarly, oils from plants and seeds can be used as a substitute for non-renewable diesel. Methane is also considered as a renewable source of energy.

Source: Wikipedia

## Alternative Energy & Antal International

Antal International, having established itself in 5 continents with branches in all major emerging markets, has the scope and substance to delve into markets untapped by local recruiters, providing a global solution applied locally. We have 14 years cross border transaction experience covering all facets of company operations, and have partnered with the most prestigious Power and Renewable companies, including BP solar, Shell, Vestas, Siemens, Econcern and AMEC to name but a few.

Companies across the board, either established in this field, or recently embracing it, are streamlining existing structures and methodologies. Such a scenario is not unusual when companies undergo expansion—budgets are stretched whilst competitive advantages sought. Company aspirations are impressive, nonetheless, achievable with the right talent on board. For this reason, it is crucial to explore numerous possibilities to assist each business unit to deliver superior efficiency throughout the value chain. Our aim at Antal International is to develop a comprehensive understanding of all business operations, present and future

together tailoring a bespoke solution.

The Antal International Energy Practice is an expanding and fully comprehensive recruitment and consulting service for

Alternative Energy employers and job seekers. We cater for all disciplines within this sector, focusing especially on technical and engineering roles.

We welcome all aspiring candidates an opportunity for a personal consultation. Our industry specific on-line venue invites all qualified individuals to post their resumes online. Job seekers can stay current with the latest job openings by setting up Email Job Alerts for instant notification.

Antal International Team



## Green Candidates in Bulgaria

According to the book *Get a Green Job. Careers in Renewable Energy* by Gregory McNamee there are 4 job areas:



TECHNICAL/ ENGINEERING	PROJECT MANAGEMENT/ CONSULTING	RESEARCH & DEVELOPMENT	SALES & MARKETING
<p><b>ID: 430354</b>                      More than 10 years experience as Electrical Engineer                      2 years experience as Project &amp; Production Manager.                      Education: Master's in Electrical power supply and electrical devices                      Location: Varna, Bulgaria</p> <p>Also available: ID: 955377</p>	<p><b>ID: 361901</b>                      1 year experience as Integration Project Manager at the energy sector in Italy                      5 years experience as Country Manager in Telecommunications                      2 years experience in general management                      Education: MBA, Master's in Telecommunications                      Location: Sofia, Bulgaria</p> <p>Also available: ID: 197569</p>	<p><b>ID: 632055</b>                      4 years as Service &amp; Sales Director                      5 years as Technical Manager                      6 years as Client Services Manager                      4 years as R&amp;D Manager                      Education: Master's in Industry Management, Bachelor's in Electro Engineering                      Location: Sofia, Bulgaria</p> <p>Also available: ID: 10109</p>	<p><b>ID: 846649</b>                      4 years experience in strategy planning, marketing &amp; sales in the infrastructure and energy sector.                      9 years experience as Trade Specialist building and construction, real estate, banking and financing and the energy sector.                      Education: Executive MBA, Master's in Electrical Engineering, additional courses in the field of Marketing, Sales                      Location: Sofia, Bulgaria                      Also available: ID: 412626</p>

## Country Targets & Key Issues

Public providers are required to purchase the entire quantity of electricity produced by plants using renewable energy sources at preferential prices. Depending on plant capacity, the legally set range of prices is as follows:

**WIND POWER 120-175 lv/ mWh**

**SOLAR POWER 718-782 lv/ mWh**

**HYDRO POWER 80 lv/ mWh**

Source: *SEWRC*

### LAWS you need to KNOW

Energy Effective-  
ness Act (State  
Gazette, issue 18,

March 5, 2004; amended, issue 74 from 2006; amended, issue 55, July 6, 2007)

Resolution of the State Energy and Water Regulatory Commission on the price of electric energy produced by photovoltaic power plants

Resolution of the State Energy and Water Regulatory Commission on the price of electric energy produced by wind farms/ wind power plants

Regulation No. 14 from June 15, 2005 for technical regulation and norms of engineering, construction and use of the plants and equipment for production, transformation, transport and distribution of electric energy

Regulation No. 14 from June 15, 2005 regarding the technical rules and norms which apply to the design, construction and use of the facilities for the production, transformation, transportation and distribution of electrical energy.

REGULATOIN No. 6 from June 9, 2004 regarding the addition of producers and consumers of electrical energy to the transportation and distribution electrical grids

REGULATION No. 18 from November 12, 2004 regarding the energy efficiency characteristics of buildings

REGULATION No. 19 from November 12, 2004 regarding the certification of buildings for energy efficiency

National long-term program for encouraging the use of renewable energy sources for the period 2005 - 2015

Law of the Energy Sector

Health and safety manual for the persons working with electrical current up to 1000 V

Law on Territory Planning

Renewable and Alternative Energy Sources and Bio fuels Law

### Country targets

The renewables targets are calculated as the share of renewable consumption to gross final energy consumption. Renewables consumption comprises the direct use of renewables (e.g. biofuels) plus the part of electricity and heat that is produced from renewables (e.g. wind, hydro), while final energy consumption is the energy that households, industry, services, agriculture and the transport sector use. The denominator for the RES share includes also distribution losses for electricity and heat and the consumption of these fuels in the process of producing electricity and heat.

**Bulgarian target: 16% (2005 = 9.4%)**

### Key issues

Bulgaria is approaching its RES-E target for 2010. Large-scale **hydro power** is currently the main source of RES-E, but its technical and economic potential is already fully exploited. Good opportunities exist for **biomass**, since 60% of land is agricultural, and about 30% is forest cover. Total **wind energy capacity** of around 2,200 – 3,400 MW could be installed. **Solar potential** exists in the East and South of Bulgaria, and 200 MW could be generated from geothermal sources.

## Green News



### 2.65M To Be Employed In Wind & Solar By 2018

According to the latest market research from Clean Edge the wind and solar power industries will experience huge growth in the next 10 years creating 2.65 million jobs worldwide, increased from about 600,000 today. However despite the positive long term message, investment in renewable energy in 2009 is likely to decline or stay flat. ([more](#))

### Less 'Green' in Economy Means More Green Jobs in Future

The weakened economy and tight job market can be frightening to service members ready to enter the civilian workforce. However, in spite of the economic turmoil, one career field stands to endure and thrive — the Green Jobs Sector. ([more](#))

### Foundation for Local Government Reform in Partnership with the Bulgarian Environmental Partnership Foundation Announces a Call for Proposals within the NGO Fund – Bulgaria 2008-2010 under the EEA Financial Mechanism

1st Priority area: Protection of the environment and promotion of sustainable development ([more](#))

### Solar Water Heating Pays For Itself Five Times Over

An analysis of the engineering and economics for a solar water-heating system shows it to have a pay-back period of just two years, according to researchers in India. They report, in the International Journal of Global Energy Issues, on the success of the 1000-liter system operating at a university hostel. ([more](#))

### New Renewables to Power 40 Per Cent of Global Electricity Demand By 2050

With adequate financial and political support, renewable energy technologies like wind and photovoltaics could supply 40 percent of the world's electricity by 2050, according to findings from the International Scientific Congress "Climate Change: Global Risks, Challenges & Decisions." However, if such technologies are marginalized, its share is likely to hover below 15 percent. ([more](#))

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- Specialized, tailor-made courses (language, online or in the field, induction of new comers or other required and approved by the clients);
- National, regional and international marketing research and analyses;
- Regular sector shots focused on labour market in Bulgaria;
- Global labour bulletins and data;
- Leasing of personnel;
- Translations and other administrative services;
- Team-buildings.

Do not hesitate to **contact us** for any discussion.

**GREEN EVENTS**

**April 2009**

- 02 Platts European Renewable Energy Berlin Germany
- 03 International Conference on Signal Acquisition and Processing 2009 (ICSAP 2009) Kuala Lumpur Malaysia
- 06 EE & RES CONGRESS AND EXHIBITION. The 5-th International Congress and Exhibition on Energy Efficiency and Renewable Energy Sources Sofia Bulgaria**
- 16 RENEXPO® Central and South-East Europe 2009 Budapest Hungary
- 17 2009 International Conference on Intelligent Building and Management (ICIBM 2009) Singapore
- 17 2009 International Conference on Bioinformatics and Biomedical Technology (ICBBT 2009) Singapore
- 19 4th International Exergy, Energy and Environment Symposium Sharjah United Arab Emirates
- 22 REXchange 2009 Copenhagen Denmark
- 28 BioEnergy Forum 2009 Singapore Singapore
- 29 SEB'09 International Conference on Sustainability in Energy and Buildings Brighton United Kingdom
- 29 Financing Renewable Energy Conference San Francisco CA

**May 2009**

- 06 Solar Energy Conference State College PA
- 07 Electrical and Control Technologies ECT-2009 Kaunas Lithuania
- 11 SOLAR 2009 - The National Solar Conference Buffalo New York
- 12 FT Global Events-Athens Summit 2009 Athens Greece
- 19 Green Cities Florida Orlando FL
- 19 Demand Response and Energy Efficiency World San Francisco CA
- 20 Santa Barbara Summit on Energy Efficiency Santa Barbara California
- 26 City Rail Asia 2009 Singapore Singapore
- 26 Community Wind Energy Web conference Web
- 27 Renewable Energy Conference Halifax Canada

**April 2009**

Mon	Tue	Wed	Thu	Fri	Sat	Sun
		1	2	3	4	5
6	7	8	9	10	11	12
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**May 2009**

Mon	Tue	Wed	Thu	Fri	Sat	Sun
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
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