



In Bulgaria by

**Continental Wind Bulgaria EOOD** 

# DEALING WITH AN INSECURE LEGAL FRAMEWORK



#### **CONTINENTAL WIND PARTNERS - OVERVIEW**



Leading global wind developer with over 3,000 MW under development

- Continental Wind Partners LLC (CWP) is one of the leading global developers of wind energy
- The company combines international experience with local commitment and has offices in all of the seven countries where it operates
- With more than 3,000 megawatts of capacity under development, CWP is one of the leading players in Europe and Australia



Proven experience in all project stages

Securing land
Wind analysis
GIS and layout optimisation
Environmental and building consents
Contracting grid connection

Procurement of turbines and BOP
Arranging project finance
Negotiating construction contracts
Construction management
Operation



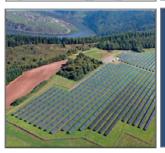
Completed Europe's largest wind farm

- CWP's Fantanele project in Romania, acquired by CEZ in 2008, is Europe's largest onshore wind farm
- With 240 turbines (GE 2.5xl) for a total capacity of 600 MW, the wind farm is an example of CWP's development and construction management capabilities



Unmatched experience and track record in CEE

- The company was established in 2007 and initially focused on the development of wind farms in Romania and Poland, but quickly expanded into other CEE countries
- With over 1 GW under development in the region, CWP is the largest and most experienced international developer present in CEE



Expanding in other RE technologies

- In 2011, CWP acted as commercial/project manager on behalf of a major utility company for the procurement and construction of a 5MW solar PV project
- In 2011, after 2 years of development, CWP in a consortium with AREVA & CS Energy won a \$300 million grant from the Australian government as part of the Australian Government's Solar Flagships Program. The 250 MW solar thermal gas hybrid project will be the largest of its kind in the world, with a total investment over \$1 billion



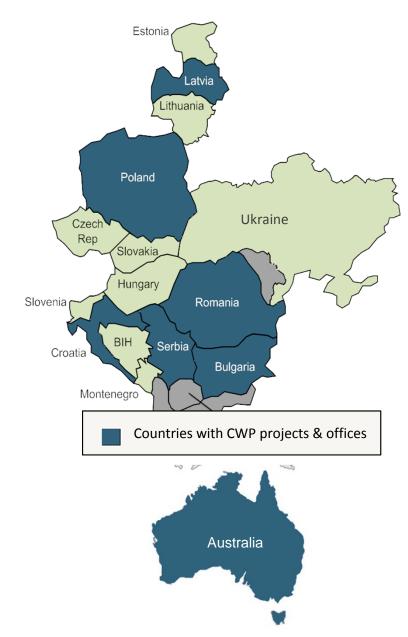


**GLOBAL PRESENCE** 

CWP's available pipeline of highquality projects is more than 4 GW of capacity

Wind project sizes range from circa 90 to 300 MW

5 projects are late stage developments and will reach full permitting in the next year



CWP Market Presence							
Poland	400 MW						
Croatia	120MW						
Romania	400 MW						
Bulgaria	180 MW						
Serbia	300 MW						
Australia	3,000 MW						



#### CHALLENGES TO WIND DEVELOPMENT IN BULGARIA

#### REGULATORY AND INSTITUTIONAL BARRIERS

- Changing Framework
- Public misinformation by authorities
- Bulgaria's loss of credibility
- Lack of transparency
- Lack of proper institutions and local capacity
- Overall resistance to change
- Complete defeat of wind on the PR front

- Populist short-sighted energy policy
- Resistance by National Electricity Company
- Resistance by Transmission System Operator
- Pressure from Regulator
- Pressure from Ministry of Environment
- Pressure from Ministry of Agriculture

- New Renewable Energy Law
- New Energy Law
- New Law on Agricultural Land
- New restrictive Environmental

**Procedures** 



## CONSTANT CHANGES IN THE LEGAL FRAMEWORK

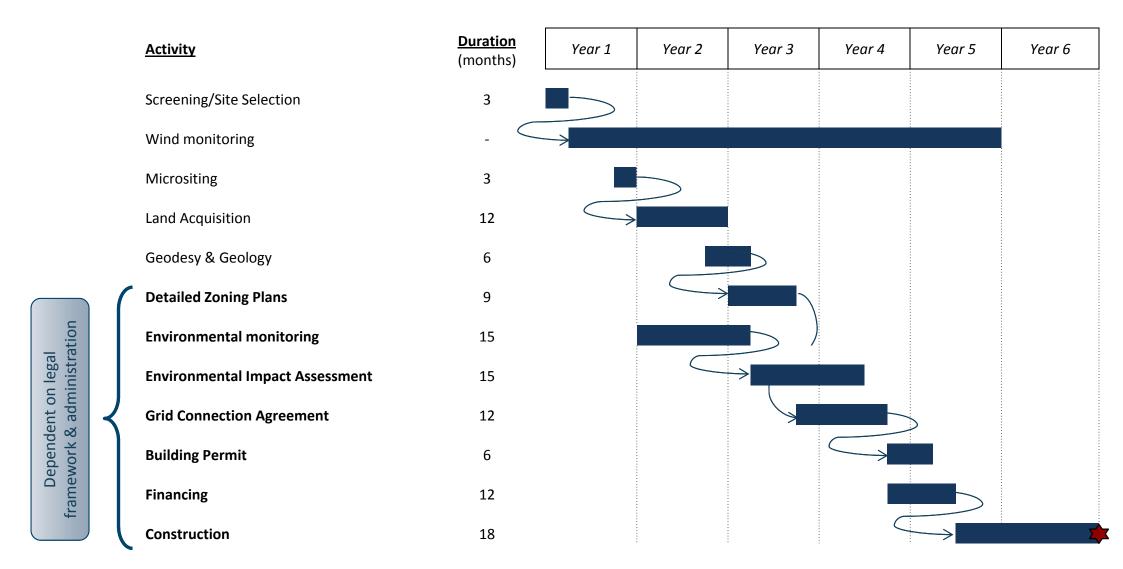


#### NEW LAW ON RENEWABLE ENERGY

New RES law goes through Parliament	New RES law comes into force	SEWRC publishes new feed-in-tariffs	Amendment of RES Law	SEWRC introduces new lower feed-in- tariffs	SEWRC introduces new lower feed-in-tariffs	SEWRC retro- actively introduces grid connection fees for RES power plants
Dec 5 <sup>th</sup> , 2010	May 3 <sup>rd</sup> , 2011	June 21 <sup>st</sup> , 2011	April 10 <sup>th</sup> , 2012	June 28 <sup>th</sup> , 2012	Aug 29 <sup>th</sup> , 2012	Sep 14 <sup>th</sup> , 2012
red	rm of feed-in-tariff uced from 15 to 12 years for wind;	• Wind PP • operating up to 2250h= €97.66;	SEWRC approves grid connection based on available grid capacity;	• Wind PP operating up to 2250h= €76.03;	• Wind PP operating up to 2250h= €76.03;	<ul> <li>10% of the FiT for wind PP, operating up to 2250h;</li> </ul>
	eed-in-tariff drop vn of 20% for wind;	• Wind PP • operating above 2250h= €88.4	Gives SEWRC the right to change FiT more than once per year;	<ul> <li>Wind PP operating above 2250h= €67.85</li> </ul>	<ul> <li>Wind PP operating above 2250h= €67.85</li> </ul>	<ul> <li>10% of the FiT for wind PP, operating above 2250h;</li> </ul>
payı	ndatory preliminary ments when signing GCC- €25,000/MW for PP >5MW;		<ul> <li>Auctions on spare capacity;</li> </ul>	• PVPP > 5MW = €121.2	• PVPP > 5MW = €87.6	20% of the FiT for PVPP > 5MW, commissioned: 01.07.2011-31.12.2011
fix	eed-in-tariffs to be ed at construction mpletion (Act 15);				<ul> <li>Unavailable grid capacity for the period: 01.07.2012- 01.07.2013</li> </ul>	<ul> <li>39% of the FiT for PVPP &gt; 5MW, commissioned: 01.01.2012-30.06.2012</li> </ul>
va	% limit in annual riation of feed-in-ariffs is removed;					



## DEVELOPING A PROJECT IN BULGARIA



## NATIONAL RENEWABLE ENERGY ACTION PLAN



#### NATIONAL ACTION PLAN INDICATIVE GOALS (DIRECTIVE 2009/28/EU)

- Guaranteed Feed-in-tariffs for RES power plants;
- ➤ Mandatory buy up of produced RE for a 15/25 year term;
- Guaranteed priority on grid connection for producers of renewable energy;
- > Administrative competence and increased capacity for project development assistance;
- Creation of a national data base with installed capacities, energy production and consumption available to the public;
- Public informational campaigns promoting RES;

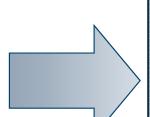
The build up of renewables, according to the NREAP (18.04.2011), will be the following (in MW):

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hydro	2156	2188	3055	3065	3076	3086	3094	3100	3275	3281	3285	3288
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0
Solar	7	35	135	780	130	186	251	265	275	285	287	303
Wind	335	488	516	539	980	1115	1274	1315	1370	1398	1420	1440
Biomass	3	3	10	22	46	94	147	152	153	155	156	158
Total	2501	2714	3716	4306	4232	4481	4766	4832	5073	5119	5148	5189



# CURRENT REGULATORY AND INSTITUTIONAL BARRIERS

- Constantly changing legal framework;
- Lack of consistency and unity between local regulations, national laws EU directives;
- Insufficiently developed grid capacity;
- Lack of adequate administration services;
- Lack of credibility for Bulgaria as an investment destination
- Little information on renewable and negative public image;



# ACTIONS NEEDED TO REACH THE 2020 INDICATIVE GOALS

- Resolution of past mistakes;
- Long-term feed-in-tariffs providing financial security for investors;
- Clear environmental legislation compliant with EU directives;
- > Efficient grid capacity expansion;
- Competent and cooperative administration services;
- Public informational campaigns and better understanding of the benefits from RES;

**NOV 2012** 





HOW TO OVERCOME THE CHALLENGES

Bulgaria needs to embrace the green revolution not view it as a burden

- ✓ A viable legislation that inspires confidence in investors; projects have to be bankable; wind should be given advantage over solar as it is the cheapest technology.
- ✓ Expanding the capacity of the grid in the areas that have the best wind resource.
- ✓ Clear environmental legislation that is based on EU norms. Guidelines for all should be set into place!
- ✓ Administration that doesn't hinder wind development and courts that allow for quick resolutions .
- ✓ General support of the public awareness that wind energy is not expensive and will have negligible impact on people's electricity bills. Furthermore, it will preserve Bulgaria's beautiful nature.
- ✓ Bulgaria's geographical position together with inexpensive labour costs make it ideal for turbine manufacturers and other companies in the sector to setup a base here to serve expanding neighbouring markets (Serbia, Romania, Bulgaria, Turkey).
- ✓ Bulgaria could potentially develop its market in advance and become an exporter of green electricity.
- ✓ Problems need to be quantified not just qualified. Wind has drawbacks (e.g. intermittency) but that has a price that can be factored in and wind energy will still come out as the best technology for new generation.