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ENERGY WORLDWIDE HOLDING



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I would like to introduce to the participants of the
International Odessa Forum
The International Consortium of
Diplomats, Engineers and Financial Experts
that prepare tailor cut Renewable Energy Projects as well as
Energy Projects with Integrated Renewable Energy Resources:

ENERGY WORLDWIDE HOLDING



In many Countries the problem of moving towards clean energy has been the missing link between the Company Owners and the administrations that implement these technologies.



The **Energy Worldwide Holding** will create the missing link with tailor cut projects:

- Diplomats: that will make International political networking
- Engineers: that implement the project in the territory
- Financial Experts: that will prepare an economic deal

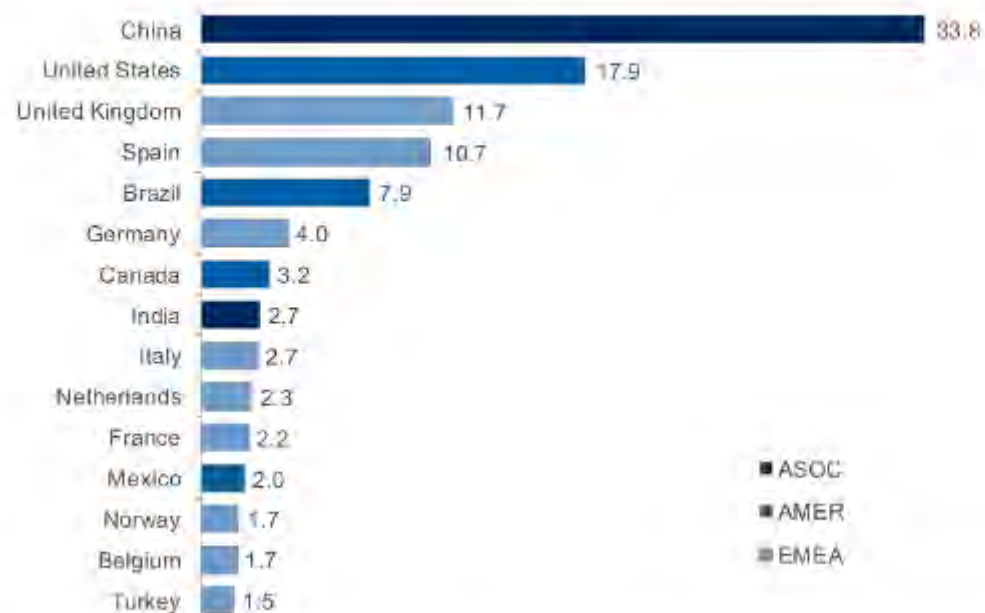
Worldwide States and Municipalities are turning to **Renewable Energy**.

This is a means for economic revival during the recession.

For many the economic challenges are a major barrier to entry...



New financial investment in clean energy - top 15 countries 2009 (\$bn)



Source: Bloomberg New Energy Finance
 Note: Excludes corporate and government R&D, and small distributed capacity. (Not adjusted for reinvested equity. Total values include estimates for undelivered assets.)

Wind turbines

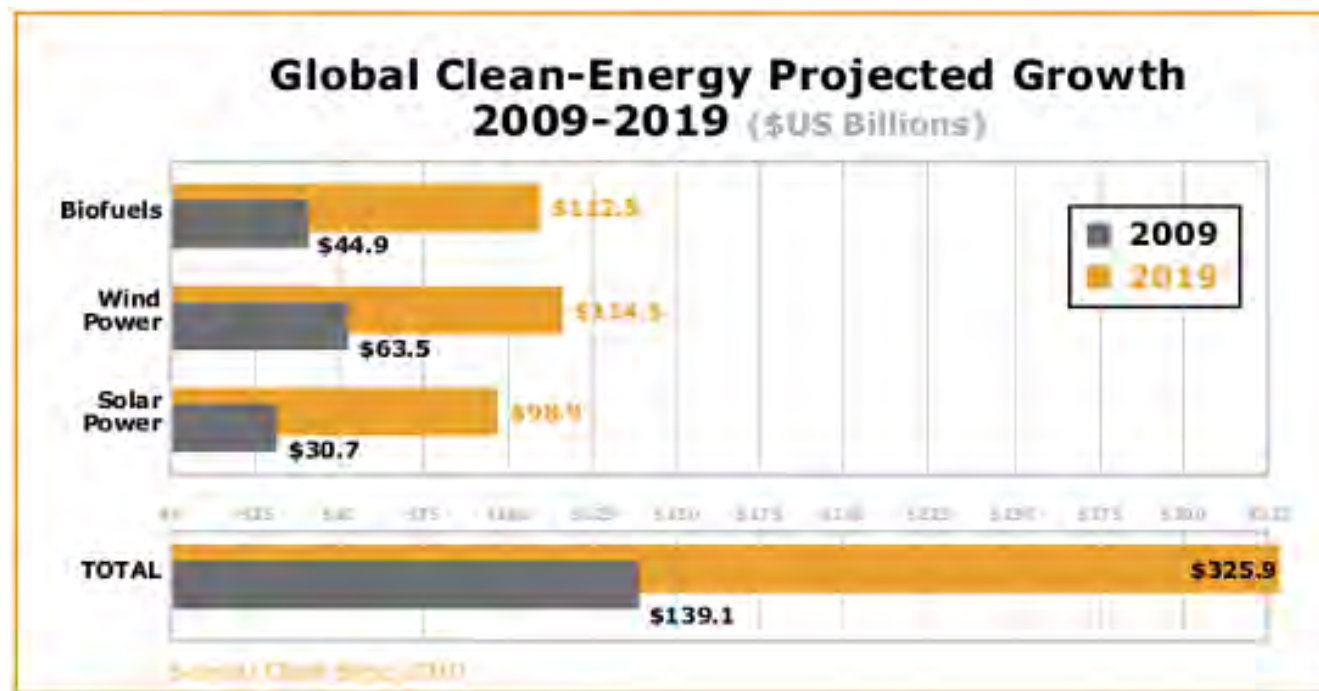
Name (Country)	Production (GW)
Vestas (DK)	6.3
GE Wind (US)	5.8
Sinovel (CN)	5.8
Gamesa (SP)	4.4
Suzlon (IN)	3.5
Goldwind (CN)	3.4
Enercon (DE)	3.3
DFSTW (CN)	3.3
Repower (DE)	2.9
Nordex (DE)	2.5

Crystalline Silicon PV cells

Name (Country)	Current capacity (MW)
Suntech (CN)	1090
Q-Cells (DE)	1000
JA Solar (CN)	800
SolarWorld (DE)	710
Sharp (JP)	695
Trina Solar (CN)	600
Yingli (CN)	600
Canadian Solar (CN)	420
SunPower (US)	414
Solarfun (CN)	360

■ United States ■ China ■ Europe ■ Rest of world

- The three major clean energy sectors — wind, solar, bio-fuels — were able to grow their combined revenue 11.4% over the previous year.
- The combined revenue of those three sectors was \$139.1 billion. The report forecasts growth to \$325.9 billion in the next decade.





SOME GENERAL INFORMATION:



A 5-MW average turbine can produce more than 15 million kWh in a year



An “energy intensive” household consumes up to 10,000 kWh of electricity each year



=



A village of 3000 inhabitants!



CASE OF AZERBAIJAN

Present electric power capacity of 5.5 gigawatts (GW).

- 8 State-owned thermal plants
(80% of generating capacity)
- 6 Hydro-power State-owned plants

• **Local generation:** 21.6 bn kilowatt hours (bkWh)
(85% of which being conventional thermal generation)

• **Consumption:** 25 bkWh.

The difference is made up of imports from neighbouring countries.

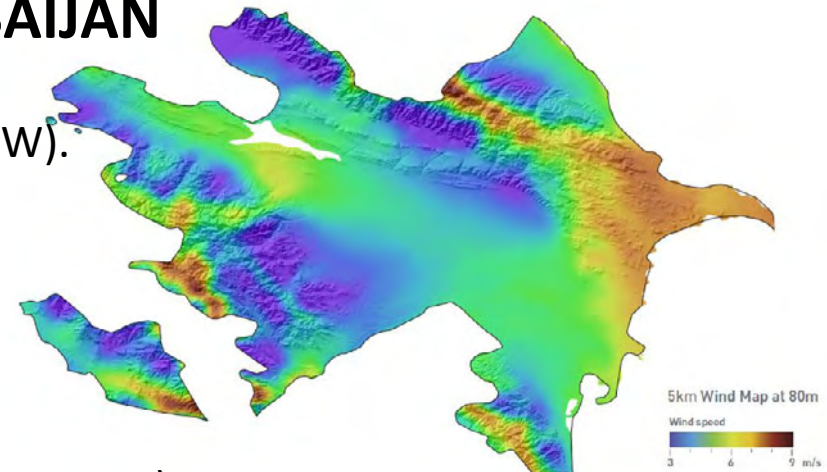
Due to the start-up of the BTC and SCP pipelines, power demand in Azerbaijan has been growing since 2007.

The Country has a very high **potential for wind power development** (on the Absheron Peninsula wind force ranges from 3 to 27 m/sec ideal for wind turbines)

The use of solar energy in Azerbaijan which has 260-280 days of sunshine per year is also promising. The country has geothermal waters.

Azerbaijan planned to generate 3-5% of its electricity from renewable sources.

In 2007 Government approved a feed-in tariff for Wind Energy – 0,045 manat per kWh (0,04855 Euro per kWh).





CASE OF BULGARIA

Less than 10% of its electricity from renewable sources. Just 1% comes from wind power.

EU target to increase **Renewable Energy production to 16 % by 2020**
(this includes heating, cooling, air conditioning, etc.)

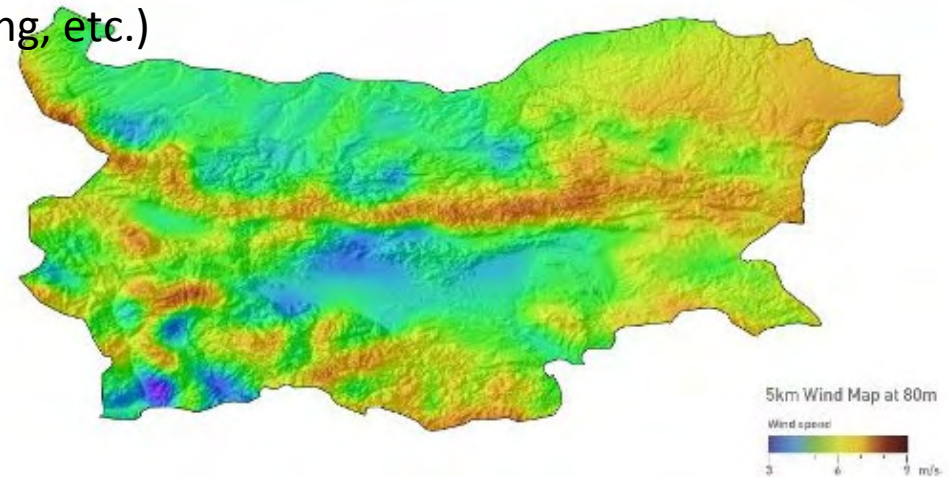
BULGARIA WIND ATLAS

Energy consumption (in oil equivalent):
Electricity consumption - 2338 kilotons,
Heating and cooling - 4500 kilotons.

Estimated: Wind power: 76 000 MW.

Solar power: 71 000 MW.

Presently: 9 000 MW.



EU countries that cannot meet the requirements for having a share of their energy come from renewable sources are obliged to make “STRATEGIC TRANSFERS” from other EU states through the so called “guarantees of origin.” (In Directive 2009/28 of the EC)

Bulgaria can profit from this since several EU states possibly will not meet their renewable energy commitments (like the UK, the Czech Republic, France etc.)

In the next 10 years wind energy will meet 13.5% of Bulgaria’s electricity demand.

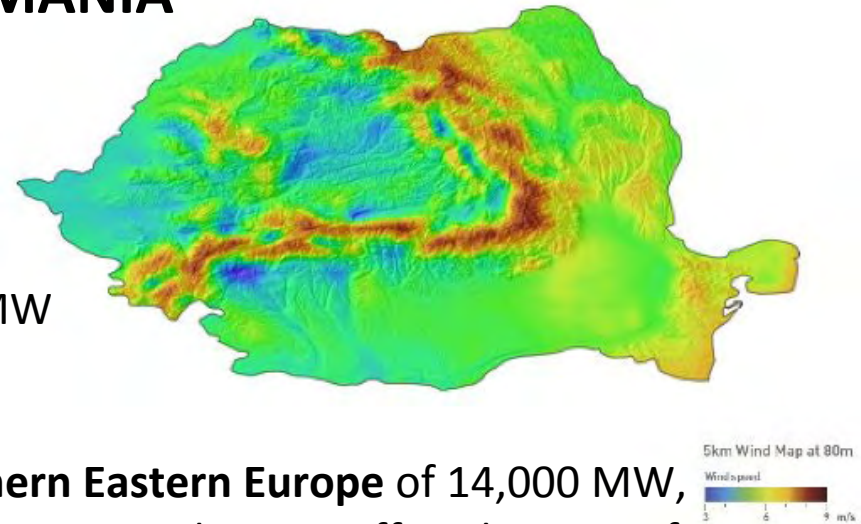


CASE OF ROMANIA

ROMANIA WIND ATLAS

EU target is 16% of Renewable Energy by 2020:
onshore wind is set to be the star technology

Wind power installed capacity in 2008 were 76 MW
and is growing



Romania has **the highest wind potential in Southern Eastern Europe** of 14,000 MW, although the national electricity transport company Transelectrica offered permits for only 2,200 MW.

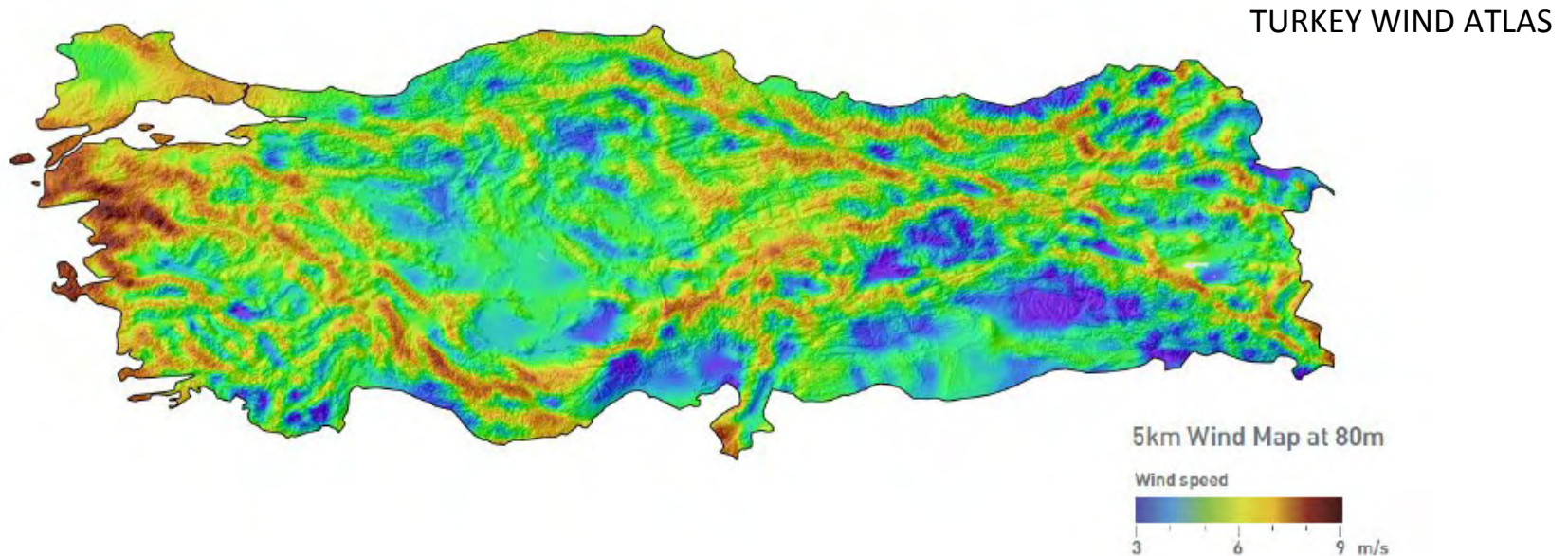
By 2020 wind farms could contribute with 13 GW to the national power generation. Romania has a target of 33% of the overall electricity consumption to be supplied from Renewable Sources by 2020. Target can only be achieved through foreign capital investment and know-how, in combination with a generous support mechanism.

Wind energy could provide up to 17% of EU electricity demand by 2020: this would avoid 333 million tons of CO₂ per year, equal to 29% of the EU's greenhouse gas reduction target.



CASE OF TURKEY

- Turkey relies heavily on **imported energy** and only around 30 % of the total energy demand is met by domestic sources;
- The European Wind Energy Association has estimated that Turkey could meet 20% of its electricity demand from **wind power** with a target capacity of 20,000 MW, even assuming an average 8 % of annual growth in power consumption;
- The Government of Turkey target is 20,000 MW (about 30%) of wind energy generation **for 2023**;





CASE OF UKRAINE

WIND ATLAS UKRAIN

One of Europe's **largest energy consumers**:
it consumes nearly twice more than Germany.
In 2005, half of the energy consumption came from natural gas,
and over 75% of this natural gas was **imported from Russia**
(since 2004, the price has almost doubled)



The economic impact of these price increases on the economy will depend on the pace at which Ukraine can implement energy efficiency reforms.
The Ukrainian people today, 20 years after the Chernobyl nuclear disaster, have the possibility of being completely self sufficient with their electricity production through the use of renewable energy sources and means of increased energy efficiency.

Wind energy potential is enormous.

Total installed wind capacity may come up to 16000 MW

Power generation may reach 25-30 TWh/year

This taking into account shoal of the AzovSea and the Black Sea

Estimations are that 7000 km² of Ukraine can be used for the construction of wind farms of 35000 MW total capacity.

Let's make things happen:

WHAT THE ENERGY WORLDWIDE HOLDING OFFERS:



- CLEAN TECH projects
- Asset management
- Integrated solutions
- Top level political networking
- Establishing partnerships
- Promote PPP (Private – Public –Partnerships)
-- Joint Venture with Government structure.
- Competitive financial exit strategies
- Innovative project and financial structuring



THE HOST STATE AND THE ENERGY WORLDWIDE HOLDING

All the Host State needs to do is to sign a

POWER PURCHASE AGREEMENT

and issue the necessary license

and the Energy Worldwide Holding will take care about the rest:

Engineering, Procurement, Construction (EPC)

The energy plant could be handed over to the public partner after agreed period of time (BOT Agreement) or remain as a property of EWH or a joint venture of EWH with National Company

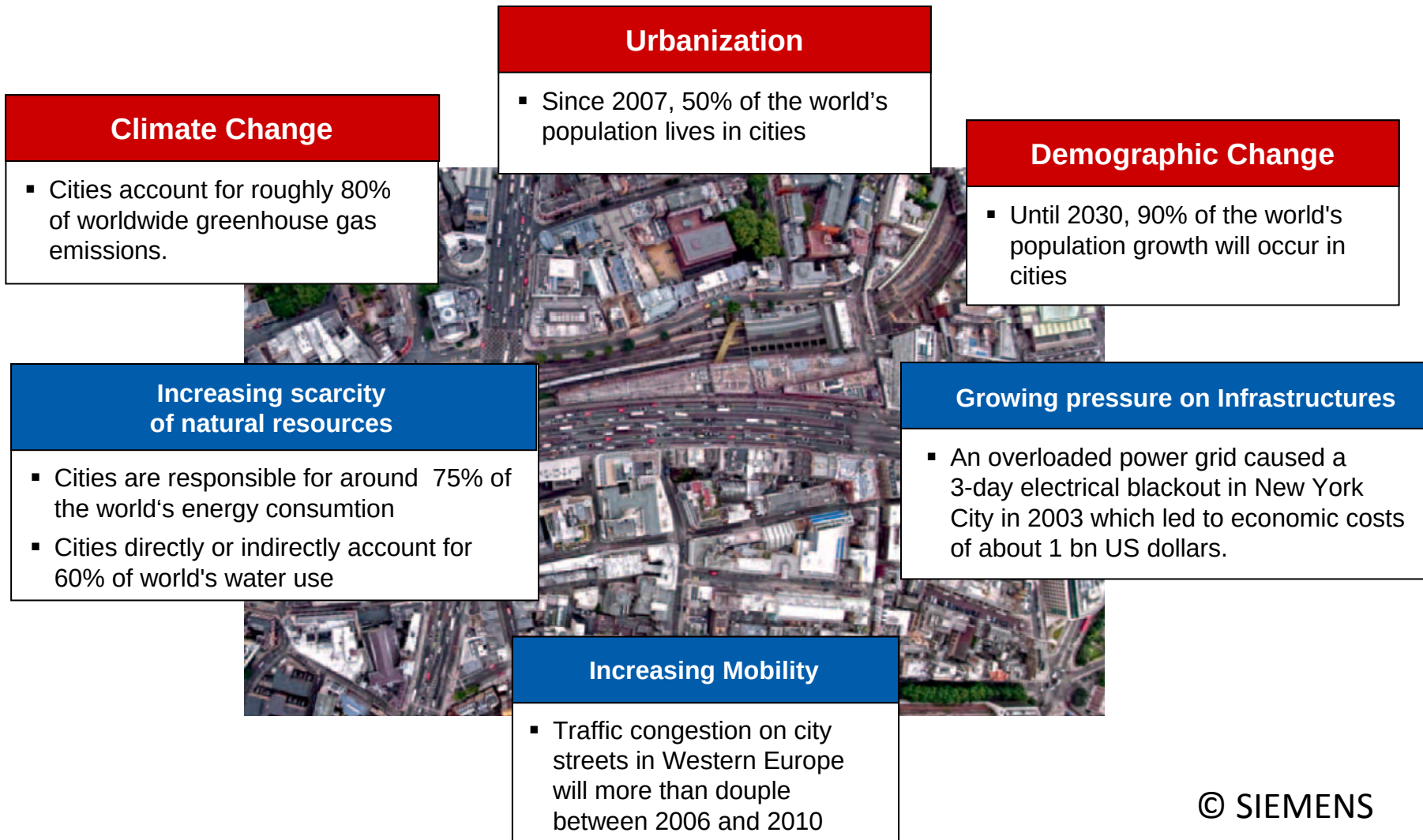
**IN ORDER TO MAKE ANOTHER
RENEWABLE ENERGY PROJECT REALITY!**

WHY WE ASK FOR YOUR COLLABORATION IN THIS JOINT VENTURE



- The Governments are the ones with the power to promote a policy towards clean energy.
- The Governments are the ones that can help Local Administrations to implement the renewable energy projects.
- Renewable Energy activities promise an extremely good relation between (public) investments and benefits and are „integrated activities“ with multiple positive effects (energy, environment, jobs, ...).
- The Energy Worldwide Holding will be happy to serve as a funding platform in order to make another clean energy project reality.

Megatrends pose urgent challenges to cities

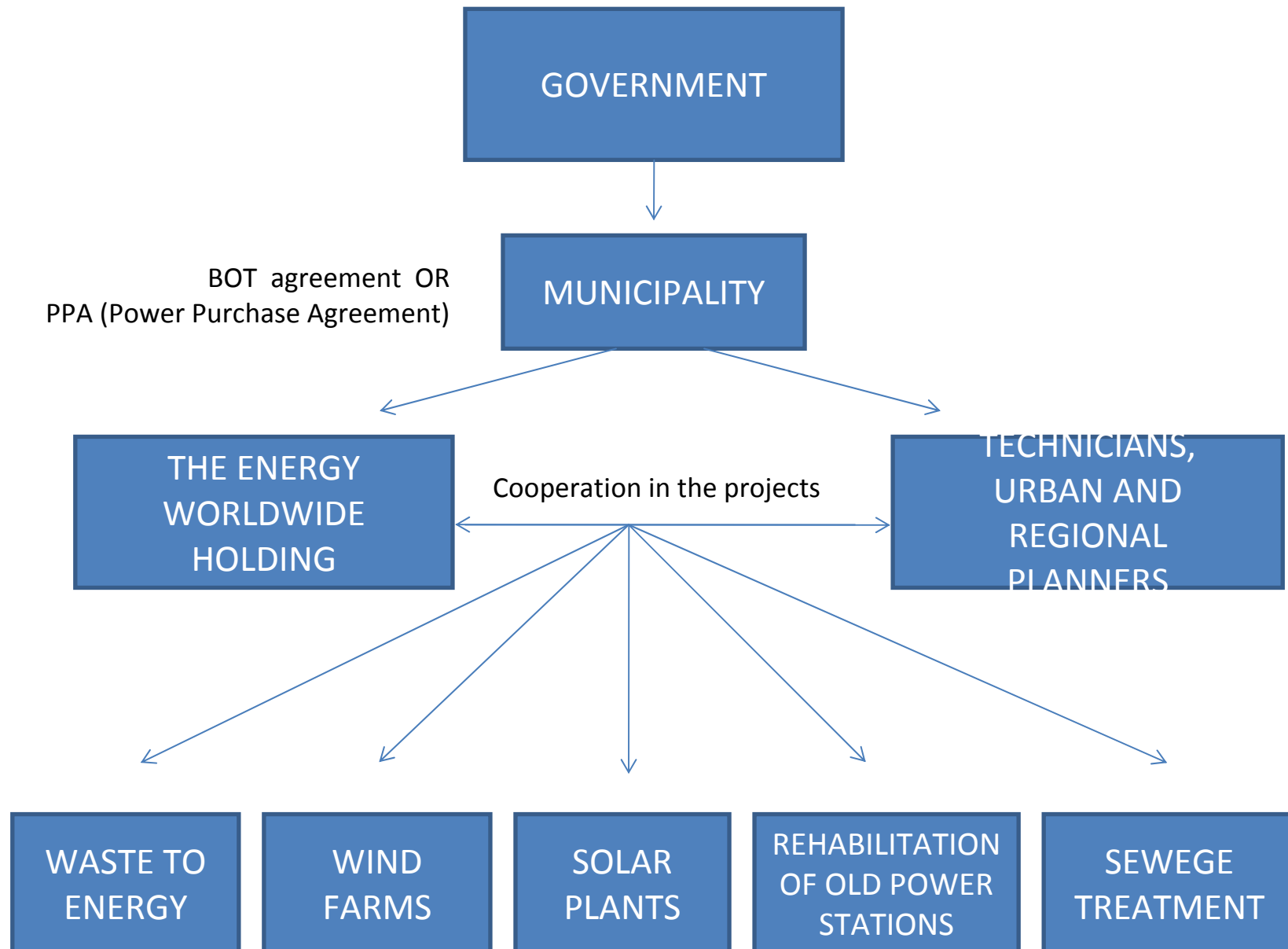


**THE MORE GLOBALIZED OUR WORLD BECOMES
THE MORE IMPORTANT THE REGIONAL and LOCAL DIMENSIONS GET**



=> Integrated tailor cut projects and solutions are needed!

FUTURE OF RENEWABLE ENERGY BELONGS TO ADMINISTRATIONS:



THANKS FOR THE CASE STUDY, BP!

- The European Commission issued its Economics of Ecosystems and Biodiversity report (TEEB) last week in an effort to find a way to properly measure the value of natural capital.
- The economist Pavan Sukhdev notes the \$20 billion that will be paid by BP for compensation and cleanup, but asks the question, "... what about the cost to the economy of lost utility — eco-tourism loss, fisheries stocks that represent future losses to industry, the inability to fish in the area?"
- The economic loss caused from this single disaster will dwarf \$20 billion.
- So let's consider, honestly...
Is there an economic advantage to using alternatives to oil?
- To a new way of life, and a new generation of wealth...

THANK YOU!



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