DTEK Group: business description

DTEK CEO BRIEFING IN WASHINGTON DC

28 FEBRUARY – 1 MARCH 2018





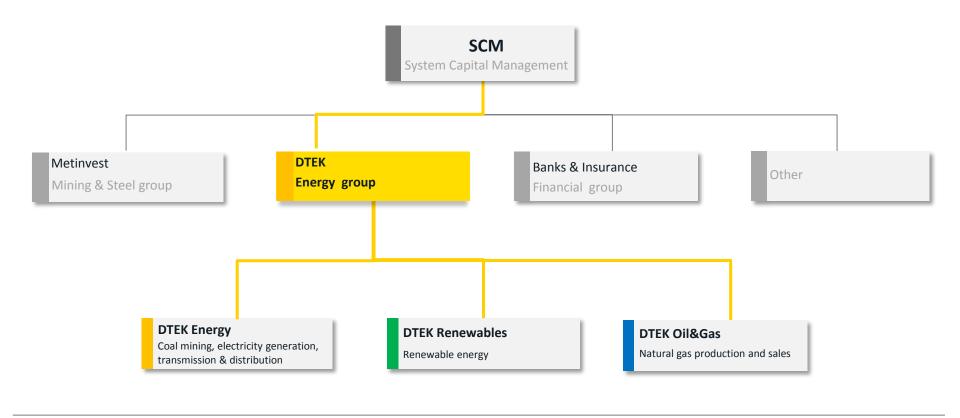
DTEK ENERGY

DTEK RENEWABLES

DTEK OIL&GAS

SCM Group overview





Incorporated in 2000, System Capital Management (**SCM**) is one of the largest and diversified industrial groups in Ukraine, which controls more than **100 companies**

Main areas of activity: energy, mining and steel, as well as banking, telecommunications, media, real estate; operations in Ukraine, USA, Italy, UK, Switzerland, Bulgaria and Russia

Over 300.000 employees — SCM enterprises are recognized leaders in corporate social responsibility across Ukraine

DTEK Group overview



DTEK

The leading private vertically-integrated energy company in Ukraine

- As a part of SCM, DTEK is responsible for strategic management of fuel and energy assets of the Group
- Recognized leader in corporate governance, member of Eurelectric, EURACOAL, European Energy Forum, US-Ukraine Business Council, American Chamber of Commerce (ACC), etc., through SCM partners with the Atlantic Council
- One of the largest Ukrainian employers (75 000 people)

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DTEK ENERGY B.V.	

COAL MINING AND PROCESSING

- 16 mines and 5 coal processing plants¹
- Coal mining: 27.7 mln tonnes



ELECTRICITY GENERATION

- 9 coal TPPs and 2 gas CHPPs¹
- Electricity generation 37.1 bln kWh
- Installed capacity 16.3 GW



ELECTRICITY DISTRIBUTION AND SALES

- 5 distribution companies¹, 3.5 mln final consumers
- Electricity transmission 43.2 bln kWh
- Total length of transmission lines 99.1 ths km

DTEK OIL&GAS B.V.



OIL&GAS **EXTRACTION AND SALES**

- Three licensed fields, participation in PSA
- Gas production 1655 mcm, condensate 54.8 ths t
- Reserves approx. 23 bln m³ of natural gas

DTEK RENEWABLES B.V.



RENEWABLES

- The largest wind farm in Ukraine (200 MW) and pilot solar plant for 10 MW; 200 MW wind farm under construction
- Electricity generation 637.8 mln kWh

¹ under operational management

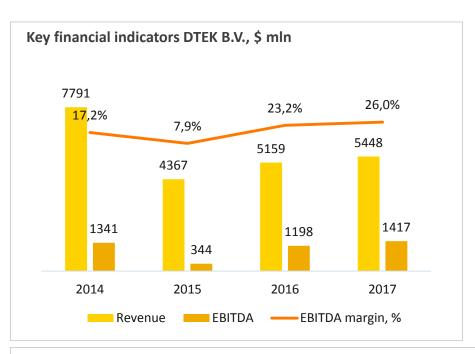
Business geography: location of assets

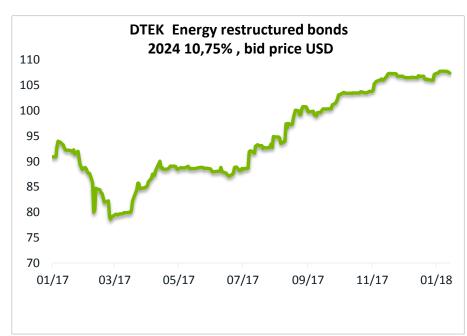


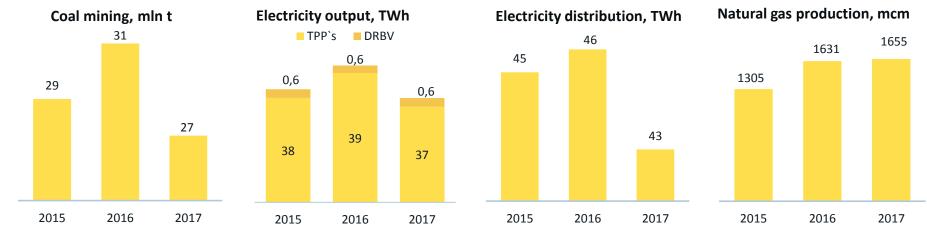


DTEK Group performance indicators











DTEK B.V. OVERVIEW

DTEK ENERGY OVERVIEW

DTEK RENEWABLES

DTEK OIL&GAS

DTEK ENERGY at a glance



DTEK Energy operational results

DTEK Energy B.V.	Unit	2013	2014	2015	2016	2017
Operational indicators						
Coal mining	kT	41 408	37 121	28 692	30 737	24 800
Thermal power generation	mln kWh	52 786	47 138	37 650	39 463	36 500
Heat generation	k Gcal	12 087	10 066	9 237	9 841	8 443
Electricity distribution	mln kWh	56 896	53 810	45 086	45 809	43 200
Electricity exports	mln kW	9 829	7 988	3 555	3 984	5 000
Coal exports	kT	4 732	4 057	1 387	1 158	748
Coal imports	kT	0	1 687	404	222	2 571

- In 2014-2015 DTEK ENERGY faced sharp contraction of operational and financial results due to conflict in Eastern Ukraine and hostilities in the Donetsk and Luhansk regions.
- Starting from 2016, along with the improvement of the Ukrainian economy, a noticeable enhancement in DTEK ENERGY's operational and financial performance is continuing.
- Apart for the macro rebound there are two major factors that have contributed to the improvement: (1) successful debt management and restructuring; and (2) regulatory and legislative developments in Ukraine.

DTEK ENERGY today

- Biggest private thermal electricity producer: 9 TPP and 2 CHP plants generate 23% of Ukraine's electricity.
- Key player in the Ukrainian coal industry: represented by 16 mines and 5 coal processing plants producing 73% of the country's coal.
- Extensive electricity distributor with 33.2% of Ukrainian market: grid length of 99,138 km with 5 distribution companies servicing 3.5 mln households and 84,665 corporate and other customers.



DTEK B.V. OVERVIEW

DTEK ENERGY

DTEK RENEWABLES OVERVIEW

DTEK OIL&GAS

DTEK Renewables at a glance



DTEK Renewables operational results

DTEK Renewables	Unit	2012	2013	2014	2015	2016	2017
Operational indicators							
Electricity output	GWh	24	268	652	634	608	637
Availability factor	%	-	97	96	99	99	98
Capacity factor	%	-	34	38	36	35	36

- Owner and operator of the largest wind farm in Ukraine - 200MW Botievo wind farm (TOP5 onshore wind farms in Eastern Europe).
- DTEK Renewables's strategic goal is to retain a leading position and share in the RES generation market in Ukraine as this market continues to expand.
- The main focus will be wind and solar power.
- A portfolio of solar and wind power projects is being developed allowing to meet its growth targets for installed renewable energy capacity.
- DTEK Renewables is aiming to annually increase its installed wind power capacity by min 200 MW and solar power capacity – by 300 MW since 2018.
- In January 2018 DTEK and GE Renewable Energy signed a contract on provision, installation and maintenance of 26 wind turbines for 200 MW Primorsk wind farm.

DTEK Renewables today

- 38% of Ukrainian market of wind power capacities.
- 12% of Ukrainian market of RES capacities.
- Largest Ukrainian investor in "green" energy projects.
- 10 MW pilot PV farm in Kherson region Tryfanovka PV farm in operation since August 01, 2017.

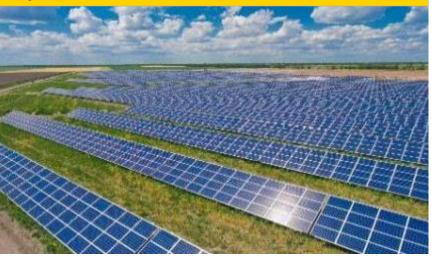
DTEK Renewables operating assets



Botievo wind farm site:



Tryfanovka PV farm site:



Botievo wind farm main characteristics:

- The Botievo wind farm, with total installed capacity of 200 MW, was developed, built and put into operation for 4 years (2011-2014)
- The wind farm was built within budget and ahead of schedule
- 65 wind turbines produced by Vestas (Denmark) world leading manufacture – equipped Botievo wind farm which, as of to date, is the largest wind farm in Ukraine
- Total investment costs, including ECA premium, €340 mln of which €245 financed from a senior loan provided by a German commercial bank (LBB bank)
- The team that was responsible for the design, planning, construction and commissioning of Botievo Wind Farm is still in place and is responsible for project portfolio implementation

Tryfanovka PV main characteristics:

- The Tryfanovka PV farm, with total installed capacity of 9,99 MW, was developed, built and put into operation in 2017
- JA Solar (China) and ABB (Switzerland/Italy) was selected as suppliers of solar panels and string inverters correspondingly
- The PV farm was built within budget and schedule
- On July 19th, 2017 full PV farm capacities were put into operation and the generation of electricity according to "green" tariff has started on August 1st
- Total investment costs €8,12 mln of which €7,1 financed from a senior loan provided by a Ukrainian commercial bank



DTEK OIL&GAS at a glance



DTEK OIL&GAS operational results

DTEK <i>Oil&Gas B.V.</i>	Unit	2013 ¹	2014	2015	2016	2017
Operational indicators						
Gas production	mcm	506	752	1 304	1 631	1655
Condensate production	ths. t	20	29	45	56	54
Well stock at the end of the period	units	8	11	18	21	23

- Biggest private natural gas producer in Ukraine (1.65 bcm in 2017).
- DTEK Oil&Gas has been consistently increasing gas production: its output has grown by 3.2 times since 2013.
- Commissioning of 14 wells with depth between 5.400-6.750 meters and well №17 at Semyrenkivske field that uncovered industrial gas reserves at 6.750 m depth (the deepest commercial well in Europe).
- Commissioning "Olefirivka" the most modern preliminary gas conditioning facility with a total annual capacity exceeding 2 bcm of gas.

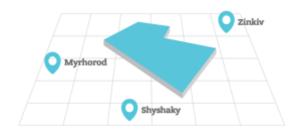
DTEK OIL&GAS today

- Dominant proportional share in gas production: 40,6% of gas production in private sector.
- 100% success rate for DTEK OIL&GAS wells (i.e. no "dry" wells).
- Unique expertise for gas producing in extreme reservoir pressure (up to 1100 atm) and temperature (up to 158
 0C) conditions

¹ Consolidation Nov.-Dec. 2013

DTEK OIL&GAS licensed sites





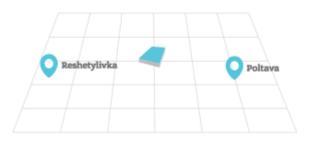
Semyrenkivske Field

Location: Shyshaky and Myrhorod Districts of Poltava Region

Area: 158,8 km²

Natural gas reserves: P1 - 14,235bcm, P2 - 28,155 bcm Gas condensate reserves: 1P - 534 ths t, 2P - 1 191 ths t

Wells depth: over 5,600 m



Machukhske Field

Location: Poltava District of Poltava Region

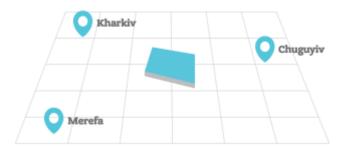
Area: 19,2 km²

Natural gas reserves: P1 - 3,118 bcm, P2 - 5,053 bcm Gas condensate reserves: 1P - 10 ths t, 2P - 16 ths t

Wells depth: over 5 500 m

Unique in its complexity of geological conditions of development (stratum

pressures of over 1,000 atm with anomaly factor of more than 2)



Khoroshevo Field

Location: Kharkiv District of Kharkiv Region Natural gas reserves (C3 category): 1,28 bcm

Gas condensate reserves: 80,7 ths t