



2019

GODIŠNJI IZVJEŠTAJ O POSLOVANJU

ANNUAL BUSINESS REPORT

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VIZIJA

Javno preduzeće Elektroprivreda Bosne i Hercegovine d.d. - Sarajevo svojim društveno odgovornim poslovanjem i profesionalnim integritetom u proizvodnji, distribuciji, pouzdanom snabdijevanju električnom energijom i razvojem tržišta električne energije bit će nosilac i pouzdan partner ostalim privrednim subjektima u ekonomskom razvoju Bosne i Hercegovine.

VISION

Public Enterprise Elektroprivreda Bosne i Hercegovine d.d. - Sarajevo (Public Electric Utility of Bosnia and Herzegovina) by its socially responsible business and professional integrity in the generation, distribution, supply of electricity and developing of electricity market will be carrier and reliable partner to other economic entities in economic development of Bosnia and Herzegovina.

MISIJA

Misija Društva je proizvoditi i distribuirati električnu energiju, pouzdano snabdijevati kupce električnom energijom i trgovati u konkurentnom okruženju, uz korištenje domaćih resursa i zadovoljenje okolišnih zahtjeva, doprinoseći održivom razvoju i kvalitetnom životu društva.

Javno preduzeće Elektroprivreda Bosne i Hercegovine d.d.- Sarajevo će:

- proizvoditi električnu i toplotnu energiju iz domaćih obnovljivih i neobnovljivih resursa u skladu sa okolišnim zahtjevima, važećom zakonskom regulativom i evropskim standardima;
- obezbijediti efikasan distributivni sistem za isporuku električne energije krajnjim kupcima i omogućiti svim korisnicima pristup mreži i napajanje električnom energijom po propisanim normama kvaliteta i pružanje informacija;
- sigurno i pouzdano snabdijevati i trgovati električnom energijom proizvedenom iz domaćih resursa po konkurentnim cijenama;
- osigurati ekonomski održivu proizvodnju uglja za potrebe termoelektrana, industrije i široke potrošnje po konkurentnoj cijeni;
- ulagati u razvoj i realizaciju novih kapitalnih investicija, pri čemu će posebnu pažnju posvetiti investiranju u proizvodnju električne energije iz obnovljivih izvora energije, povećanju fleksibilnosti energetskeg portfolija i energetske efikasnosti;
- vršiti restrukturiranje svih djelatnosti s ciljem povećanja efikasnosti poslovanja i ispunjavanja zahtjeva u okviru Energetske zajednice i evropskih standarda.

Efikasno poslovanje Javnog preduzeća Elektroprivreda Bosne i Hercegovine d.d.- Sarajevo bazira se na dosljednoj primjeni propisa i standarda i na principima:

- osiguranja kvaliteta proizvoda i usluga;
- povećanja zadovoljstva, sigurnosti i povjerenja kupaca;
- očuvanja okoliša;
- strateškog planiranja i razvoja zaposlenika;
- obezbjeđenja zaštite zdravlja i sigurnosti na radu;
- sigurnosti informacija;
- upravljanja rizicima;
- povećanja energetske efikasnosti;
- društveno odgovornog poslovanja.

MISSION

Mission of the Company is generation and distribution of electricity, reliable supply to customers and electricity trade in a competitive environment, using domestic resources and meeting environmental requirements, contributing to the sustainable development and quality of life of society.

Public enterprise Elektroprivreda Bosne i Hercegovine d.d.- Sarajevo will:

- *Generate electricity and heat energy from domestic renewable and non-renewable resources in accordance with environmental requirements, applicable legal regulations and European standards;*
- *Provide an efficient distribution system for electricity delivery to end-customers and enable access to the network to all users of power supply according to the safely prescribed norms of quality and providing information;*
- *Safely and reliably supply electricity and trade in electricity generated from domestic resources at competitive prices;*
- *Ensure economically sustainable coal production for needs of thermal power plants, industry and wide consumption at competitive price;*
- *Invest in the development and realization of new capital investments, paying special attention to investing in the electricity production from renewable sources increasing the flexibility of the energy portfolio and energy efficiency;*
- *Restructure all activities in order to increase the efficiency of operations and fulfil the requirements within Energy Community and European standards. Efficient business of Public enterprise Elektroprivreda Bosne i Hercegovine d.d.- Sarajevo is based on consistent application of regulations and standards and on principles of:*

- *quality assurance of products and services;*
- *increasing of customers satisfaction, security and confidence;*
- *environment preservation;*
- *strategic planning and development of employees;*
- *ensuring protection of occupational health and safety;*
- *information security;*
- *risk management;*
- *increasing of energy efficiency;*
- *socially responsible business.*



STATUTARNI ELEMENTI O DRUŠTVU - ORGANIZACIJA DRUŠTVU

Javno preduzeće Elektroprivreda Bosne i Hercegovine d.d. - Sarajevo (u daljnjem tekstu: Elektroprivreda BiH, EPBiH ili Društvo) je elektroprivredno društvo, koje vrši djelatnosti: proizvodnje električne energije, distribucije električne energije, snabdijevanja i trgovine električnom energijom.

Društvo posluje u okviru osam podružnica i to:

- „Hidroelektrane na Neretvi“, Jablanica,
- „Termoelektrana Kakanj“, Kakanj,
- „Termoelektrana Tuzla“, Tuzla,
- „Elektrodistribucija Bihać“, Bihać,
- „Elektrodistribucija Mostar“, Mostar,
- „Elektrodistribucija Sarajevo“, Sarajevo,
- „Elektrodistribucija Tuzla“, Tuzla,
- „Elektrodistribucija Zenica“, Zenica,
- uz organiziranu Direkciju u sjedištu Društva.

STATUTORY ELEMENTS OF THE COMPANY - ORGANISATION OF THE COMPANY

Javno preduzeće Elektroprivreda Bosne i Hercegovine d.d.-Sarajevo (Public Enterprise Electric Utility of Bosnia and Herzegovina) (hereinafter referred to as: Elektroprivreda BiH, EPBiH or the Company) is a power utility company performing the following activities: generation of electricity, distribution of electricity, supply and trade of electricity.

The Company operates within the framework of the following eight subsidiaries:

- “Hydropower Plants on the Neretva river”, Jablanica,
- “Thermal Power Plant Kakanj”, Kakanj,
- “Thermal Power Plant Tuzla”, Tuzla,
- *Elektrodistribucija Bihać*, Bihać,
- “Elektrodistribucija Mostar”, Mostar,
- “Elektrodistribucija Sarajevo”, Sarajevo,
- “Elektrodistribucija Tuzla”, Tuzla,
- “Elektrodistribucija Zenica”, Zenica,
- with the Directorate organized in the seat of the Company.



Društvo zastupaju i predstavljaju generalni direktor, izvršni direktori i direktori podružnica, u skladu sa Statutom i posebnim aktom Uprave Društva.

Organi Društva su:

- **Skupština,**
- **Nadzorni odbor,**
- **Uprava i**
- **Odbor za reviziju.**

Upravljanje Društvom, u skladu sa Zakonom o privrednim društvima, Zakonom o javnim preduzećima i Statutom, vrši Uprava Društva koju čine:

- generalni direktor,
- izvršni direktor za proizvodnju,
- izvršni direktor za distribuciju,
- izvršni direktor za snabdijevanje i trgovinu,
- izvršni direktor za ekonomske poslove,
- izvršni direktor za pravne poslove i ljudske resurse,
- izvršni direktor za kapitalne investicije.

Društvo ima sekretara Društva čije su nadležnosti utvrđene zakonom i Statutom.

Direkcija Društva je organizirana u sjedištu Društva radi obavljanja zajedničkih funkcija za potrebe Društva kao cjeline, te za potrebe pojedinih elektroprivrednih djelatnosti i zavisnih društava.

The Company is represented by the General Manager, Executive Managers and Managers of Subsidiaries, in accordance with the Statute and special acts of the Company Management.

Bodies of the Company are the following:

- **Assembly**
- **Supervisory Board**
- **Management, and**
- **Audit Committee.**

Pursuant to the Law on Companies, the Law on Public Companies, and the Statute, the Company is managed by the Company Management comprising of the following:

- **General Manager,**
- **Executive Manager for Generation,**
- **Executive Manager for Distribution,**
- **Executive Manager for Electricity Trading and Supply,**
- **Executive Manager for Economic Affairs,**
- **Executive Manager for Legal Affairs and Human Resources,**
- **Executive Manager for Capital Investment.**

The Company has a Secretary, whose competencies are determined by laws and the Statute.

The Directorate of the Company is organized in the seat of the Company with the purpose of performing joint functions for the needs of the Company as a whole, and for the needs of particular electric utility activities and subsidiary companies.

PRIMJENA PRAVILA KORPORATIVNOG UPRAVLJANJA

Društvo je u 2019. godini pratilo i u bitnom dijelu primijenilo sve preporuke utvrđene Kodeksom korporativnog upravljanja JP Elektroprivreda BiH d.d. - Sarajevo, od 20. 4. 2012. godine. U Kodeksu korporativnog upravljanja JP Elektroprivreda BiH d.d. - Sarajevo uvažene su specifičnosti koje proizlaze iz činjenice da je Društvo javno preduzeće, na koje se primjenjuje i Zakon o javnim preduzećima u Federaciji BiH.

U 2019. godini su pravovremeno izvršavane sve obaveze koje se odnose na objavu informacija predviđenih Kodeksom korporativnog upravljanja JP Elektroprivreda BiH d.d. – Sarajevo i Pravilnikom o objavljivanju informacija i izvještavanju na tržištu vrijednosnih papira.

JP Elektroprivreda BiH d.d. - Sarajevo je dioničko društvo. Na dan 29. 10. 2019. godine imalo je ukupno 2.489 dioničara (31.506.541 dionica).

Prvih deset dioničara Društva bili su:

Redni broj	Dioničar	Broj dionica	Udio (%)
1.	Federacija Bosne i Hercegovine	28.472.181	90,3691
2.	ZIF „Big – Investiciona grupa“ d.d. Sarajevo	90,3691	2,3342
3.	ZIF CROBIH FOND d.d. Mostar	267.747	0,8498
4.	ZIF HERBOS FOND d.d. Mostar	251.800	0,7992
5.	ZIF „Prevent INVEST“ d.d. Sarajevo	200.537	0,6365
6.	ZIF „BONUS“ d.d. Sarajevo	180.904	0,5742
7.	OAIF „VIB FOND“ a.d. Banja Luka	149.950	0,4759
8.	ZIF „PROF-PLUS“ d.d. Sarajevo	107.577	0,3414
9.	Raiffeisen BANK d.d. Bosna i Hercegovina	98.186	0,3116
10.	ASA FINANCE d.d. Sarajevo	87.750	0,2785

CORPORATE GOVERNANCE RULES APPLICATION

In 2019, the Company complied with and implemented all recommendations defined in the Corporate Governance Code of JP Elektroprivreda BiH d.d. - Sarajevo of 20 April 2012. The Corporate Governance Code of JP Elektroprivreda BiH d.d. - Sarajevo recognizes the specificities arising from the status of the Company as a public company, subject to the Law on Public Companies in the Federation of Bosnia and Herzegovina.

In 2019, all obligations related to disclosure of information envisaged by the Corporate Governance Code of JP Elektroprivreda BiH d.d. - Sarajevo and the Rulebook on Disclosure of Information and Reporting in the Securities Market were fulfilled.

JP Elektroprivreda BiH d.d. - Sarajevo is a joint stock company. As at 29 October 2019, it had a total of 2,489 shareholders (31,506,541 shares).

The first ten shareholders of the Company were:

S/N	Shareholder	Number of shares	Share (%)
1.	Federation of Bosnia and Herzegovina	28.472.181	90,3691
2.	ZIF „Big – Investiciona grupa“ d.d. Sarajevo	90,3691	2,3342
3.	ZIF CROBIH FOND d.d. Mostar	267.747	0,8498
4.	ZIF HERBOS FOND d.d. Mostar	251.800	0,7992
5.	ZIF „Prevent INVEST“ d.d. Sarajevo	200.537	0,6365
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8.	ZIF „PROF-PLUS“ d.d. Sarajevo	107.577	0,3414
9.	Raiffeisen BANK d.d. Bosna i Hercegovina	98.186	0,3116
10.	ASA FINANCE d.d. Sarajevo	87.750	0,2785



Skupština Društva

Nadležnosti Skupštine Društva, koju čine dioničari, propisane su zakonom i Statutom Društva. Skupština se saziva kada je to određeno zakonom, drugim propisima i Statutom i kada se ocijeni da je to u najboljem interesu Društva i dioničara, a najmanje jednom godišnje.

U 2019. godini održane su tri sjednice Skupštine Društva.

Nadzorni odbor

Nadzorni odbor nadzire poslovanje Društva i radi na osnovu Zakona o privrednim društvima, Zakona o javnim preduzećima, Statuta Društva i Poslovnika o radu Nadzornog odbora.

Nadzorni odbor se sastoji od sedam članova, koje je izabrala Skupština Društva.

U toku 2019. godine Nadzorni odbor je funkcionirao u sastavu:

- **dr. sc. Izet Žigić - predsjednik**
- **dr. sc. Milenko Obad - član**
- **mr. sc. Jakub Dinarević - član**
- **dr. sc. Izudin Džafić - član**
- **Sead Rešidbegović - član**
- **dr. sc. Ramiz Kikanović - član**
- **Hasen Mašović - član**

U toku 2019. godine održane su 23 sjednice Nadzornog odbora.

Period imenovanja za šest članova Nadzornog odbora u ime državnog kapitala je istekao 27. 11. 2019. godine, te je Društvo u jednom periodu poslovalo bez Nadzornog odbora, jer Vlada Federacije BiH nije dostavila prijedlog kandidata za šest članova Nadzornog odbora u ime državnog kapitala.

Company Assembly

Responsibilities of the Company Assembly, which consists of shareholders, are stipulated by law and the Statute of the Company. The Assembly is convened as prescribed by law, other regulations, and the Statute and when it is deemed to be in the best interest of the Company and its shareholders, but at least once a year.

In 2019, three meetings of the Company Assembly were held.

Supervisory Board

The Supervisory Board supervises business of the Company and operates on the basis of the Law on Companies, the Law on Public Companies, the Statute of the Company and the Rules of Procedure of the Supervisory Board.

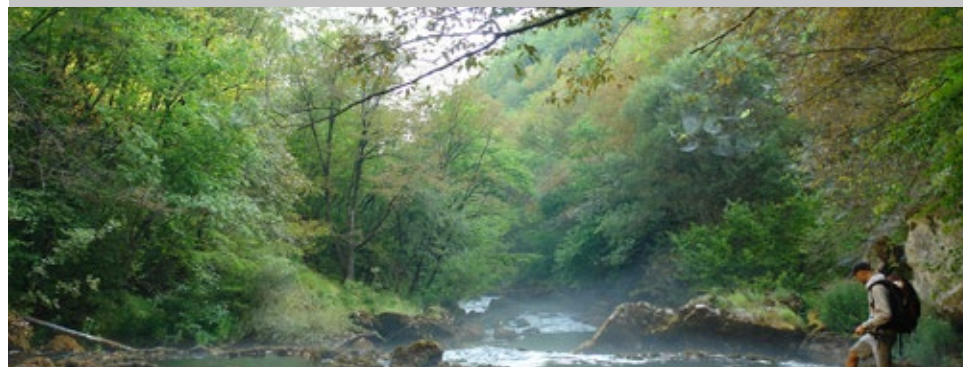
The Supervisory Board consists of seven members elected by the Company Assembly.

In 2019, the Supervisory Board consisted of:

- **PhD Izet Žigić - President**
- **PhD Milenko Obad - Member**
- **MSc Jakub Dinarević - Member**
- **PhD Izudin Džafić - Member**
- **Sead Rešidbegović - Member**
- **PhD Ramiz Kikanović - Member**
- **Hasen Mašović - Member**

23 sessions of the Supervisory Board were held during 2019.

The period of appointment for six members of the Supervisory Board on behalf of state capital expired on 27 November 2019, so the Company operated without the Supervisory Board in one period, because the Government of the Federation of BiH did not submit a proposal for six members of the Supervisory Board on behalf of state capital.





Odbor za reviziju

Odbor za reviziju obavlja poslove u skladu sa Zakonom o privrednim društvima, Zakonom o javnim preduzećima, Statutom Društva, Poslovnikom o radu Odbora za reviziju i drugim aktima Društva.

Odbor za reviziju, imenovan na četiri godine, počevši od 21. 4. 2016. godine, sastoji se od tri člana:

- **mr. sc. Almira Zulić - Burek, dipl. ecc. - član**
- **mr. sc. Muzafer Brigić, dipl. ecc. - član**
- **Senad Herenda, dipl. ecc. - član**

Uprava Društva

Uprava Društva se sastoji od sedam članova koje je imenovao Nadzorni odbor Društva:

Tokom 2019. godine članovi Uprave Društva bili su:

- **Bajazit Jašarević - generalni direktor,**
- **dr. sc. Nevad Ikanović - izvršni direktor za proizvodnju, do 12. 9. 2019. godine,**
- **Senad Sarajlić, v.d. izvršni direktor za proizvodnju, od 13. 9. 2019. godine,**
- **Admir Anđelića, izvršni direktor za distribuciju,**
- **dr. sc. Džemo Borovina - izvršni direktor za snabdijevanje i trgovinu,**
- **Muhamed Ražanica - izvršni direktor za ekonomske poslove,**
- **Mensura Zuka - izvršni direktor za pravne i ljudske resurse,**
- **dr. sc. Senad Salkić - izvršni direktor za kapitalne investicije.**

Dr. sc. Nevad Ikanović, izvršni direktor za proizvodnju, razriješen je funkcije 12. 9. 2019. godine, a za vršioca dužnosti izvršnog direktora za proizvodnju imenovan je Senad Sarajlić, na period do okončanja konkursne procedure, a najduže na period do kraja mandata Uprave - generalnog direktora i izvršnih direktora imenovanih na period od četiri godine, počevši od 1. 3. 2016. godine.

Audit Committee

The Audit Committee operates pursuant to the Law on Companies, the Law on Public Companies, the Statute of the Company, the Rules of Procedure of the Audit Committee, and other documents of the Company.

The Audit Committee, appointed for a period of four years, as of 21 April 2016, consists of three members:

- **MSc Almira Zulić - Burek, BEcon. - Member**
- **MSc Muzafer Brigić, BEcon. - Member**
- **Senad Herenda, BEcon. - Member**

Company Management

The Company Management consists of seven members appointed by the Supervisory Board of the Company:

In 2019, the Company Management consisted of the following members:

- **Bajazit Jašarević - General Manager,**
- **PhD Nevad Ikanović - Executive Manager for Generation, until 12 September 2019,**
- **Senad Sarajlić, Acting Executive Manager for Generation, since 13 September 2019,**
- **Admir Anđelića - Executive Manager for Distribution,**
- **PhD Džemo Borovina - Executive Manager for Supply and Trade,**
- **Muhamed Ražanica - Executive Manager for Economic Affairs,**
- **Mensura Zuka - Executive Manager for Legal Affairs and Human Resources,**
- **PhD Senad Salkić - Executive Manager for Capital Investments.**

PhD Nevad Ikanović, Executive Manager for Generation, was relieved of his duties on 12 September 2019, and Senad Sarajlić was appointed Acting Executive Manager for Generation, for the period until the end of the competition procedure, and for no longer than until the end of the term of the Management Board - General Manager and Executive Managers appointed for a period of four years, starting from 1 March 2016.

OSNOVNI POKAZATELJI RADA – KLJUČNI POKAZATELJI O DRUŠTVU

U 2019. godini EPBiH je proizvela 6.033,8 GWh električne energije. Ostvaren je ukupan prihod u iznosu 1.062,4 miliona KM i dobit prije oporezivanja **24,3** miliona KM.

Po vrijednosti kapitala, instaliranim kapacitetima, ukupnoj proizvodnji i prodaji električne energije, EPBiH je najveća elektroprivredna kompanija u Bosni i Hercegovini koja opslužuje više od 771 hiljade kupaca u sedam kantona na području Federacije BiH.

Opis		31. 12. 2019.	Plan 2019.	31. 12. 2018.
Dionički kapital	mlrd. KM	2,237	2,237	2,237
Operativni prihod	mil. KM	1.036,3	1.036,7	1.039,1
Operativni rashod	mil. KM	836,5	812,1	824,8
EBITDA	mil. KM	199,8	221,6	214,3
		2019.	Plan	2018.
Ukupan prihod	mil. KM	1.062,4	1.048,7	1.060,7
Prihod od prodaje el. energ. i pom. usl.	mil. KM	995,1	990,6	997,2
Ostali prihodi	mil. KM	67,3	58,1	63,5
Ukupni rashodi i troškovi	mil. KM	1.038,1	982,8	999,3
Amortizacija	mil. KM	148,0	158,0	150,3
Dobit prije oporezivanja	mil. KM	24,3	65,9	61,4
Opis		2019.	Plan	2018.
Proizvodnja	GWh	6.033,8	6.991,7	7.245,4
Neto distribucija EPBiH	GWh	4.314,3	4.196,0	4.250,1
Tržišna prodaja	GWh	2.432,4	2.606,4	3.087,1
Broj kupaca (kraj godine)		771.677	772.600	764.742
Broj zaposlenih (sa 31. 12.) *		4.325	4.360	4.350

* zaposleni na neodređeno

BASIC PERFORMANCE INDICATORS - COMPANY KEY INDICATORS

In 2019, EPBiH generated 6,033.8 GWh of electricity. The total recorded income amounted to 1,062.4 million BAM, while the recorded profit before taxation amounted to **24.3** million BAM.

In terms of value of capital, installed capacities, total generation and sale of electricity, EPBiH is the largest electric utility company in Bosnia and Herzegovina, serving more than 771 thousand customers in seven Cantons in the Federation of Bosnia and Herzegovina.

Description		31/ 12/ 2019	2019 Plan	31/ 12/ 2018
Share capital	in billion BAM	2,237	2,237	2,237
Operating income	Mill. BAM	1.036,3	1.036,7	1.039,1
Operating expense	Mill. BAM	836,5	812,1	824,8
EBITDA	in million BAM	199,8	221,6	214,3
		2019	Plan	2018
Total income	mill. BAM	1.062,4	1.048,7	1.060,7
Income from sales of electricity and auxiliary services	mill. BAM	995,1	990,6	997,2
Other income	mill. BAM	67,3	58,1	63,5
Total income and expenses	mill. BAM	1.038,1	982,8	999,3
Amortisation	Mil. BAM	148,0	158,0	150,3
Profit before tax	in million KM	24,3	65,9	61,4
Description		2019	Plan	2018
Generation	GWh	6.033,8	6.991,7	7.245,4
Net distribution EPBiH	GWh	4.314,3	4.196,0	4.250,1
Market sales	GWh	2.432,4	2.606,4	3.087,1
Number of customers (year-end)		771.677	772.600	764.742
Number of employees (as of 31 Dec.) *		4.325	4.360	4.350

* full time employees

REALIZACIJA POSLOVNE POLITIKE I CILJEVA DRUŠTVA

Oblast djelatnosti Proizvodnje

- ukupna ostvarena proizvodnja električne energije u 2019. godini iznosila je 6.033,78 GWh, a što je za 957,87 GWh ili 13,7% manje od planirane proizvodnje prema EEB za 2019. godinu; u odnosu na 2018. godinu, ukupna ostvarena proizvodnja električne energije u 2019. godini manja je za 1.211,62 GWh ili 16,72%;
- ukupna ostvarena proizvodnja električne energije u hidroelektranama (uključujući i male HE) u 2019. godini je iznosila 1.506,47 GWh i veća je za 13,5 GWh ili 0,9% u odnosu na planiranu proizvodnju prema EEB za 2019. godinu;
- ukupna ostvarena proizvodnja električne energije u termoelektranama u 2019. godini iznosila je 4.527,31 GWh i manja je za 931,37 GWh ili 17,06% u odnosu na planiranu prema EEB za 2019. godinu;
- za potrebe proizvodnje električne energije, toplotne energije i tehnološke pare u termoelektranama je ukupno utrošeno 4.851.621 tona uglja, od čega je u TE „Tuzla“ 2.979.326 tona uglja, a u TE „Kakanj“ 1.872.295 tona uglja; od ukupne količine utrošenog uglja, 4.692.119 tona uglja ili 96,71% je utrošeno za proizvodnju električne energije, dok je količina 159.502 tona uglja ili 3,29% utrošeno za proizvodnju toplotne energije i tehnološke pare.

Oblast djelatnosti Distribucije

- neto distributivna potrošnja ostvarena je u količini 4.737,33 GWh i bila je za 9,37 GWh ili za 0,2% manja u odnosu na planiranu neto potrošnju za 2019. godinu, a za 31,37 GWh ili za 0,67% veća od ostvarene u 2018. godini;
- distributivni gubici, u odnosu na bruto distributivnu potrošnju, ostvareni su u količini 371,2 GWh (7,84%) i manji su od planiranih gubitaka u 2019. godini (planirano 8,46%); također je procenat distributivnih gubitaka smanjen u odnosu na ostvareni procenat za 2018. godinu (kada je iznosio 7,91%);
- indeks broja prekida po kupcu (SAIFI) je za cca 1% bolji u odnosu na prethodnu godinu, dok se indeks trajanja prekida po kupcu (SAIDI) povećao za cca 9%;
- realizirane su planirane aktivnosti na implementaciji Projekta SCADA/DMS/OMS i pripadajućih telekomunikacija na distributivnom nivou;
- proširen je sistem daljinskog nadzora i upravljanja.

REALIZATION OF COMPANY BUSINESS POLICY AND OBJECTIVES

Generation Business

- Total electricity generation in 2019 amounted to 6,033.78 GWh, which is 957.87 GWh or 13.7% less than the generation planned in the 2019 Electric Energy Balance (EEB); compared to 2018, the total electricity generation in 2019 is lower by 1,211.62 GWh, i.e. by 16.72%;
- Total electricity generation in hydro power plants (including small HPPs) in 2019 amounted to 1,506.47 GWh and is higher by 13.5 GWh or 0.9% than the generation planned in the 2019 EEB;
- Total electricity generation in thermal power plants in 2019 was 4,527.31 GWh and is lower by 931.37 GWh or 17.06% than the generation planned in the 2019 EEB;
- For the needs of electricity, heat and process steam production in thermal power plants, a total of 4,851,621 tons of coal was consumed, of which 2,979,326 tons of coal in TPP “Tuzla”, and 1,872,295 tons of coal in TPP “Kakanj”; of the total amount of coal consumed, 4,692,119 tons of coal or 96.71% was used for the production of electricity, while the amount of 159,502 tons of coal or 3.29% was spent for the production of thermal energy and process steam.

Distribution Business

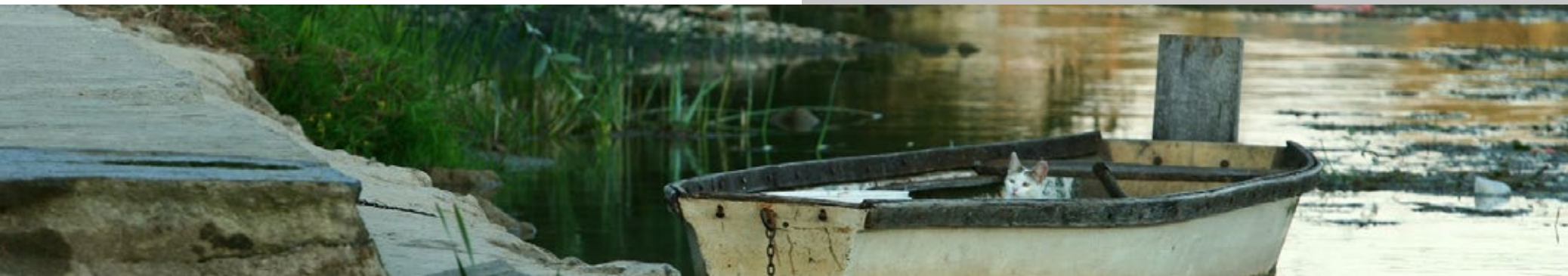
- Net distribution consumption amounted to 4,737.33 GWh and was by 9.37 GWh or 0.2% lower than the net consumption planned for 2019, and by 31.37 GWh or 0.67% higher from the consumption realized in 2018;
- Distribution losses, in comparison with the gross distribution consumption, amounted to 371.2 GWh (7.84%) and were lower than the losses planned in 2019 (planned 8.46%); also, the percentage of distribution losses decreased in comparison with the percentage realized in 2018 (when it was 7.91%);
- The System Average Interruption Frequency Index (SAIFI) is about 1% better than in the previous year, while the System Average Interruption Duration Index (SAIDI) increased by about 9%;
- The planned activities in the implementation of the SCADA/DMS/OMS Project and related telecommunications at the distribution level were completed;
- The remote monitoring and control system was expanded.

Oblast djelatnosti Snabdijevanja

- ukupna isporuka električne energije krajnjim kupcima ostvarena u količini od 4.796 GWh, što je za 1,98% više u odnosu na isti period u 2018. godini, a za 1,60% više od planirane ukupne potrošnje;
- ostvarene maloprodajne cijene komponente energije u segmentu tržišnog snabdijevanja (za sve kategorije) su za 6,17% veće u odnosu na 2018.g, dok je prihod u okvirima tržišnog snabdijevanja povećan za 0,75% uz napomenu da je dio kupaca na 0,4 KV naponu prešao na javno snabdijevanje u 2019. godini; EPBiH je zadržala dominantnu poziciju na otvorenom tržištu električne energije;
- realizirana je Odluka o primjeni Odluke o provedbi mjera za smanjenje troškova električne energije domaćinstvima i stimulaciji energetske efikasnosti, uz kontinuirano praćenje realizacije odluke kao i informiranje resornog ministarstva o broju korisnika, periodu korištenja i ukupnom iznosu odobrenih i isplaćenih subvencija;
- redovna realizacija printanja, kovertiranja i dostave računa i drugih pratećih dokumenata (opomene, obavještenja o isključenju, kamatni listovi, IOS obrasci) kupcima električne energije putem BH Pošte;
- ostvaren je stepen naplate 99,2% za 2019. godinu (bez salda potraživanja iz ranijih godina), a 96,1% (sa saldonom potraživanja iz ranijih godina) posmatrajući odnos fakturisanog i ukupno naplaćenog prihoda u tekućoj godini;
- nastavljene su aktivnosti na realizaciji ugovora sa korisnicima zaključenih na osnovu Odluke Vlade FBiH o utvrđivanju povoljnijih uslova za izmirenje dospjelog duga prema javnim preduzećima;
- redovno i pravovremeno su realizirane aktivnosti u vezi sa obnovljivim izvorima energije;
- kontinuirano unapređenje usluge e-račun i provođenje marketinške aktivnosti na promociji e-računa;
- obnovljena mogućnost plaćanja računa za električnu energiju putem trajnih naloga i elektronskih naloga kod Unicredit banke, Sparkasse banke, BBI banke, Sberbanke, Raiffeisen banke, ASA banke i Ziraat banke.

Supply Business

- *Total supply of electricity to end-customers amounted to 4,796 GWh, which is by 1.98% more in comparison with the same period in 2018, and by 1.60% more than the planned total consumption;*
- *The retail prices achieved in the energy component in the market supply segment (for all categories) are by 6.17% higher than in 2018, while income within the market supply increased by 0.75%, noting that a part of customers of 0,4 KV voltage switched to public supply in 2019; EPBiH maintained the dominant position in the open electricity market;*
- *The Decision on the implementation of the Decision on the implementation of measures to reduce electricity costs for households and stimulate energy efficiency was implemented, with continuous monitoring of the implementation of the Decision and informing the relevant Ministry on the number of customers, period of use and total amount of approved and paid subsidies;*
- *Regular printing, enveloping and delivery of bills and other supporting documents (warnings, exclusion notices, interest rate sheets, IOS forms) to electricity customers through BH Post Office;*
- *The collection rate was 99.2% in 2019 (excluding the balance of receivables from previous years), and 96.1% (including the balance of receivables from previous years), observing the ratio of invoiced and total collected income in the current year;*
- *Activities continued on the implementation of contracts with customers concluded on the basis of the Decision of the FBiH Government on determining more favourable conditions for settling the outstanding debt towards public companies;*
- *The activities related to renewable energy sources were regularly and timely implemented;*
- *Continuous improvement of the e-bill service and implementation of marketing activities on the promotion of e-bills;*
- *Restored option of electricity bill payment via standing orders and electronic orders with Unicredit Bank, Sparkasse Bank, BBI Bank, Sberbank, Raiffeisen Bank, ASA Bank and Ziraat Bank.*



Oblast djelatnosti Trgovine

- ukupna prodaja električne energije ostvarena je u količini 2.378,5 GWh, što je za 227,9 GWh ili za 8,74% manje od planiranog obima prodaje, odnosno za 708,6 GWh ili za 22,95% manje od ostvarene prodaje u 2018. godini (zbog manjeg obima proizvodnje);
- ukupan prihod od prodaje električne energije ostvaren je u iznosu 257,601 mil. KM, što je za 8,666 mil. KM ili za 3,25% manje od planiranog prihoda, a za 32,795 mil. KM ili za 11,29% manje od ukupno ostvarenog prihoda od prodaje električne energije u 2018. godini;
- prihod na kapacitetima od pomoćnih usluga ostvaren je u iznosu 9,172 mil. KM, što je za 2,212 mil. KM ili za 19,43% manje od planiranog prihoda po ovom osnovu, a za 0,363 mil. KM ili za 4,12% više od ukupno ostvarenog prihoda na ime kapaciteta od pomoćnih usluga u 2018. godini;
- zbirni prihod (prihod od prodaje električne energije i prihod od kapaciteta za pomoćne usluge) ostvaren je u iznosu 266,773 mil. KM, što je za 10,879 mil. KM ili za 3,92% manje od planiranog ukupnog prihoda, odnosno za 32,432 mil. KM ili 10,84% manje od ostvarenog ukupnog prihoda u 2018. godini;
- realizirani su ugovori za dugoročnu prodaju električne energije na tržištu u količini 1.065,5 GWh, odnosno u ukupnoj vrijednosti 114,572 mil. KM (stepen naplate isporučenih količina električne energije je 100%);
- realizirana je kratkoročna prodaja električne energije u količini 169,8 GWh, odnosno u ukupnom iznosu 18,591 mil. KM (stepen naplate isporučenih količina električne energije je 100%);
- realizirana je vezana trgovina električne energije u ukupnoj količini 937,6 GWh, sa ukupnim iznosom prihoda 105,424 mil. KM i ukupnim iznosom troškova 88,047 mil. KM, čime je ostvarena zarada u iznosu 17,911 mil. KM;
- ukupna kupovina električne energije ostvarena je u količini 1.284,4 GWh, što je za 697,5 GWh ili za 118,84% više od planiranog obima kupovine, odnosno za 474,1 GWh ili za 58,50% više od ostvarene kupovine u 2018. godini (zbog većeg obima vezane trgovine);
- ukupni troškovi za kupovinu električne energije ostvareni su u iznosu 123,726 mil. KM, što je za 66,933 mil. KM ili 117,86% više od planiranih troškova, a za 44,140 mil. KM ili za 55,46% više od ukupno ostvarenih troškova za kupovinu električne energije u 2018. godini (zbog većeg obima vezane trgovine);
- Troškovi na ime kapaciteta od pomoćnih usluga ostvareni su u iznosu 0,353 mil. KM, što je za 0,127 mil. KM ili za 26,56% manje od planiranih troškova po ovom osnovu, a za 0,035 mil. KM ili za 10,99% više od ukupno ostvarenih troškova na ime kapaciteta od pomoćnih usluga u 2018. godini;
- zbirni troškovi (troškovi od kupovine električne energije i troškovi na ime kapaciteta za pomoćne usluge) ostvareni su u iznosu 124,079 mil. KM, što je za 66,806 mil. KM ili za 116,64% više od planiranih ukupnih troškova, odnosno za 44,175 mil. KM ili za 55,29% više od ostvarenih ukupnih troškova u 2018. godini.

Trade Business

- *Total electricity sales amounted to 2,378.5 GWh, which is by 227.9 GWh or 8.74% less than planned sales volume, i.e. by 708.6 GWh or 22.95% less than the sales achieved in 2018 (due to the smaller volume of generation);*
- *Total income from electricity sales amounted to 257.601 million BAM, which is 8.666 million BAM or 3.25% less than the planned income, and 32.795 million BAM or 11.29% less than the total realized income from the sale of electricity in 2018;*
- *Income on capacities from auxiliary services amounted to 9.172 million BAM, which is 2.212 million BAM or 19.43% less than the planned income on this basis, and 0.363 million BAM or 4.12% more than the total realized income on capacities from auxiliary services in 2018;*
- *Total income (income from the electricity sales and income from capacities for auxiliary services) amounted to 266.773 million BAM, which is 10.879 million BAM or 3.92% less than the planned total income, or 32.432 million BAM or 10.84% less than the realized total income in 2018;*
- *Contracts for long-term electricity sales on the market amounted to 1,065.5 GWh, i.e., the total value of 114.572 million BAM (the level of collection of delivered electricity quantities is 100%);*
- *Short-term electricity sales amounted to 169.8 GWh, i.e., had the total amount of 18.591 million BAM (the level of collection of delivered electricity quantities is 100%);*
- *Countertrade of electricity totalled to 937.6 GWh, with total income of 105.424 million BAM and the total costs of 88.047 million BAM, resulting in earnings of 17.911 million BAM;*
- *Total purchased electricity amounted to 1,284.4 GWh, which is 697.5 or 118.84% more than planned purchase volume, i.e., 474.1 or 58.50% more than the purchase achieved in 2018 (due to the higher volume of countertrade);*
- *The total costs for electricity purchase amounted to 123.726 million BAM, which is 66.933 million BAM or 117.86% more than the planned costs, and 44.140 million BAM or 55.46% more than the total realized costs for the purchase of electricity in 2018 (due to the higher volume of countertrade);*
- *The costs of the capacities from auxiliary services amounted to 0.353 million BAM, which is 0.127 million BAM or 26.56% less than the planned costs on this basis, and 0.035 million BAM or 10.99% more than the total realized costs on capacities from auxiliary services in 2018;*
- *Cumulative costs (costs of purchasing electricity and costs of capacities for auxiliary services) amounted to 124.079 million BAM, which is 66.806 million BAM or 116.64% more than the planned total costs, i.e., 44.175 million BAM or 55.29% more than the realized total costs in 2018.*



Oblast ekonomskih poslova

- urađen godišnji obračun za 2018. godinu i sve prateće aktivnosti;
- izrada poreznog bilansa za 2018. godinu;
- izrada konsolidiranog izvještaja za 2018. godinu;
- UINO izvršio kontrolu za period 1. 3. 2016. - 30. 4. 2019. godine;
- rad sa revizorskom kućom Grant Thornton d.o.o. Banja Luka na reviziji finansijskih izvještaja za 2018. godinu (odvojeni i konsolidirani);
- urađen polugodišnji obračun za 2019. godinu;
- obavljene pripremne radnje u vezi sa godišnjim obračunom 2019. godine;
- urađen je Izvještaj o poslovanju JP Elektroprivreda BiH za 2018. godinu, koji je Nadzorni odbor prihvatio i uputio Skupštini Društva u daljnju proceduru;
- po usvajanju Plana poslovanja Društva za period 2019. - 2021. godine, urađen je Plan poslovanja Direkcije za ovaj trogodišnji period, te obavljena koordinacija sa drugim nadležnim sektorima i službama iz Direkcije i podružnica na izradi trogodišnjih planova djelatnosti i podružnica; dinamika plana prihoda, troškova i rashoda unesena u aplikaciju SAP za 2019. godinu;
- obavljani poslovi redovnog godišnjeg finansijskog izvještavanja FERK-a (za sve regulisane djelatnosti) za 2018. godinu;
- pripremljen nacrt plana poslovanja Društva za period 2020. - 2022. godine;
- rađeni predračuni gotovinskih tokova Društva za naredni 5-godišnji period;
- plasirano je 40,0 mil. eura i 20,0 mil. KM u vidu finansijskog instrumenta oročenog depozita - za isti period po osnovu kamata na oročene depozite ostvaren je prihod od 3,20 mil. KM;
- aktivnosti na implementaciji kredita KfW i donacije KfW u vezi sa odobrenim investicionim projektima;
- obavljane su finansijske aktivnosti u vezi s realizacijom projekata: Blok 7 u TE „Tuzla“, VE „Podveležje“, SCADA/DMS/OMS na distributivnom nivou, HE „Janjići“, VP „Vlašić“, te mHE;
- aktivnosti na obezbjeđenju kreditnih sredstava za finansiranje izgradnje Bloka 7 u TE „Tuzla“, u dijelu nabavke komercijalnog kredita za finansiranje dijela avansa za projekt, aktivnosti na finalizaciji ugovorne dokumentacije, a što je rezultiralo potpisivanjem Ugovora o kreditu sa konzorcijem banaka.

Economic Affairs

- Prepared annual accounts for 2018 and all accompanying activities;
- Preparation of the tax balance for 2018;
- Preparation of the consolidated report for 2018;
- ITA performed control for the period 1 March 2016 - 30 April 2019;
- Work with the auditing company Grant Thornton d.o.o. Banja Luka on the audit of financial statements for 2018 (separate and consolidated);
- Prepared the semi-annual accounts for 2019;
- Performed preliminary actions in connection with the annual accounts for 2019;
- The 2018 Business Report of JP Elektroprivreda BiH was prepared, which was accepted by the Supervisory Board and sent to the Assembly of the Company for further procedure;
- Upon the adoption of the Company's Business Plan for the period 2019-2021, the Directorate's Business Plan for this three-year period was prepared, and coordination was performed with other competent sectors and services from the Directorate and subsidiaries on the development of three-year plans of activities and subsidiaries; the schedule of the income, cost and expenditure plan was entered in the SAP application for 2019;
- Performed regular annual financial reporting to FERK (for all regulated activities) for 2018;
- Prepared Draft Business Plan of the Company for the period 2020 - 2022;
- Prepared preliminary calculations of the Company's cash flows for the next 5-year period;
- EUR 40.0 million and BAM 20.0 million BAM were invested in the form of the financial instrument of time deposit - for the same period on the basis of interest on time deposits, income of 3.20 million BAM was achieved;
- Activities on the implementation of KfW loans and KfW donations related to approved investment projects;
- Financial activities related to the implementation of projects were performed: Unit 7 in TPP "Tuzla", WPP "Podveležje", SCADA/DMS/OMS at the distribution level, HPP "Janjići", WPP "Vlašić", and SHPPs;
- Activities on providing credit funds for financing the construction of Unit 7 in TPP "Tuzla", in the part of procurement of commercial credit for financing part of the advance payment for the project, activities on finalizing the contract documentation, which resulted in signing a Loan Agreement with a consortium of banks.

Oblast pravnih i kadrovskih poslova

- pružanje pravne podrške osnovnim djelatnostima Društva, kao i poslovima podrške;
- zastupanje EPBiH u postupcima pred sudovima u BiH;
- registracija i poslovi registracije u vezi sa izmjenom lica ovlaštenih za predstavljanje i zastupanje;
- aktivnosti na izradi i analizi normativnih akata i rješavanju zahtjeva zavisnih društava rudnika uglja;
- učešće u sačinjavanju složenih ugovora i ugovora velike vrijednosti u Društvu;
- provođenje postupaka eksproprijacije zemljišta za Blok 7 TE „Tuzla“, MHE na Neretvici;
- pravni poslovi u vezi s Projektom VP „Podveležje“ i druge projektima koji se realiziraju putem kapitalnih investicija, kao i pružanje druge vrste pravne podrške kapitalnim investicijama;
- pravni poslovi u vezi sa zastupanjem za nekretnine Društva u inostranstvu;
- harmonizacija akata zavisnih društava sa aktima Vladajućeg društva, kao i priprema i izrada uputstava, odluka, smjernica i dr.;
- provođenje aktivnosti u vezi sa arbitražnim postupkom HE „Vranduk“;
- učešće u provođenju restrukturiranja i reorganizacije EPBiH i Koncerna;
- aktivnosti iz oblasti upravljanja ljudskim resursima, kadrovskih poslova i radnih odnosa na nivou Društva.

Oblast kapitalnih investicija

Realizirane aktivnosti odnosile su se na pripremu izgradnje novih blokova u termoelektranama, te izgradnju hidroelektrana i malih elektrana iz obnovljivih i alternativnih izvora energije, a obuhvatale su:

- izradu investiciono-tehničke dokumentacije,
- pribavljanje potrebnih dozvola i saglasnosti,
- vođenje postupaka za dodjelu koncesija i eksproprijaciju zemljišta,
- zatvaranje finansijske konstrukcije,
- pripremu tenderske dokumentacije za izbor isporučilaca opreme i izvođača za usluge i radove.

Legal Affairs and HR

- *Providing legal support in the core activities of the Company, as well as in the support activities;*
- *Representation of EPBiH in proceedings before courts in BiH;*
- *Registration and registration activities related to the change of persons authorized to represent;*
- *Activities on drafting and analysis of normative acts and resolving requests of subsidiaries that are coal mines;*
- *Participation in preparation of complex contracts and high-value contracts in the Company;*
- *Implementation of land expropriation procedures for Unit 7 of TPP “Tuzla”, SHPPs on the Neretvica River;*
- *Legal affairs related to the Project of WPP “Podveležje” and other projects implemented through capital investments, as well as providing another kind of legal support to capital investments;*
- *Legal affairs related to representation for the Company’s real estate abroad;*
- *Harmonization of documents of dependent companies with the documents of the Parent Company, as well as preparation and production of instructions, decisions, guidelines, etc.*
- *Conducting activities related to the arbitration procedure of HPP “Vranduk”;*
- *Participation in the implementation of restructuring and reorganization of EPBiH and the Concern;*
- *Activities in the field of human resources management, personnel affairs and labour relations at the level of the Company.*

Capital Investments

Implemented activities related to the preparation of construction of new units in thermal power plants, and construction of hydro power plants and small power plants from renewable and alternative sources of energy, and consisted of:

- *Preparation of investment-technical documentation,*
- *Obtaining necessary permits and approvals,*
- *Conducting concession award procedures and land expropriation,*
- *Closure of the financial structure,*
- *Preparation of tender documents for the selection of equipment suppliers and services and works contractors.*

Oblast razvoja

Poslovni razvoj

- sačinjen je „Dinamički plan za formiranje ODS-a EPBiH“;
- izrada prijedloga inoviranog „Programa prestrukturiranja elektroenergetskog sektora u FBiH“ (upućen kao inicijativa EPBiH prema FMERI);
- izrada Elaborata „Uporedna analiza EPBiH i elektroprivrednih kompanija u regiji u uslovima poslovanja na otvorenom tržištu električne energije“;
- izrada i revizija Elaborata „Analiza poslovnog procesa održavanja distributivnih elektroenergetskih objekata (mreža i postrojenja) sa prijedlogom značajnih poboljšanja / reinženjeringa“;
- realizacija Strategije i plana aktivnosti razvojnog projekta elektromobilnosti u EPBiH;
- realizacija „Akcionog plana za implementaciju obaveza EPBiH nastalih usvajanjem Zakona o energijskoj efikasnosti u Federaciji BiH“;
- izrada Elaborata „Analiza informatičke podrške procesima obračuna, fakturisanja i naplate u djelatnosti snabdijevanja el. energijom u EPBiH s prijedlozima poboljšanja i novog optimalnog modela“;
- realizacija Akcionog plana za realizaciju prijedloga za poboljšanje rada službi za odnose sa javnošću i informiranje kupaca el. energije u uslovima poslovanja EPBiH na otvorenom tržištu el. energije, a na osnovu ranije urađenog i revidiranog predmetnog Elaborata.

Strateški razvoj

- izrada Idejnog projekta daljinskog grijanja područja do/i Sarajeva iz TE „Kakanj“;
- izgradnja VE „Podveležje“;
- priprema izgradnje HE „Vranduk“;
- priprema izgradnje VP „Vlašić“;
- izrada podloga za Indikativni plan razvoja proizvodnje za period 2020. - 2029. godine;
- realizacija projekta „District Heating-Upgrade“ s konzorcijem instituta i kompanija EU za case study „Grijanje Tuzle iz TE ‘Tuzla’“ u okviru programa Horizon 2020.;
- realizacija projekta „Biofit“ sa konzorcijem instituta i kompanija EU za korištenje biomase u kosagorijevanju sa ugljevima u termoelektranama EPBiH u okviru programa Horizon 2020.;
- Prefeasibility studija iskorištenja vjetroenergijala na lokalitetu Borisavac – Konjic;
- Studija hidroenergetskog iskorištenja rijeke Krivaje na dionici Olovo – Zavidovići sa idejnim rješenjem objekata hidroelektrana – aplikacija prema KfW banci;

Development

Business development

- The “Dynamic Plan for the formation of the DSO of EPBiH” was prepared;
- Drafting a proposal for the innovated “Restructuring Program of the Power Sector in FBiH” (sent as an initiative of EPBiH to FMEMI);
- Preparation of the Elaborate Study “Comparative analysis of EPBiH and electric utility companies in the region in the conditions of business operations in the open electricity market”;
- Preparation and revision of the Elaborate Study “Analysis of the business process of maintenance of electricity distribution facilities (networks and plants) with a proposal for significant improvements/reengineering”;
- Implementation of the Strategy and Action Plan of the Electromobility Development Project in EPBiH;
- Implementation of the “Action Plan for the implementation of EPBiH obligations arising from the adoption of the Law on Energy Efficiency in the Federation of BiH”;
- Preparation of the Elaborate Study “Analysis of IT support to the processes of billing, invoicing and collection in the field of electricity supply in EPBiH with proposals for improvement and a new optimal model”;
- Implementation of the Action Plan for the implementation of proposals for improving the work of public relations services and informing electricity customers in the EPBiH business conditions in the open market of electricity, based on the previously prepared and revised subject Elaborate Study.

Strategic development

- Preparation of the Preliminary Design for District Heating of the area to Sarajevo/and including Sarajevo from TPP “Kakanj”;
- Construction of WPP “Podveležje”;
- Preparation for construction of HPP “Vranduk”;
- Preparation for the construction of WPP “Vlašić”;
- Preparation of the basic data for the Indicative Production Development Plan for the period 2020-2029;
- Implementation of the “District Heating-Upgrade” project with a consortium of the institute and companies of EU for case study “Heating Tuzla from TPP ‘Tuzla’” under the Horizon 2020 program;
- Implementation of Project “Biofit” with a consortium of the Institute and companies from EU for the use of biomass in co-combustion with coals in EPBiH thermoelectric power plants under the Horizon 2020 program;
- Prefeasibility study of wind potential utilization at the Borisavac site - Konjic;
- Study of hydropower utilization of the river Krivaja on the section Olovo - Zavidovići with the conceptual design of hydroelectric power plants - application to KfW bank;

- Elaborat ekonomske opravdanosti izgradnje fotonaponske elektrane na lokaciji Podveležje;
- izrada investiciono-tehničke dokumentacije za VE „Bitovnja“;
- realizacija ELEMEND –Erasmus+ projekta;
- Elaborat „Izazovi i uloga ODS-a u novim uslovima tržišta električne energije“;
- optimizacija izgradnje primarnih TS 110/x kV za potrebe ODS za period 2020. - 2030. godine;
- Projekt infrastrukture za punjenje električnih vozila;
- izrada NECP-a (Nacionalni energetska klimatski plan).

Realizacija okolišne politike i planova zaštite okoliša

TE „Tuzla“

- izvršeno je mjerenje radioaktivnosti šljake i pepela i mjerenje radioaktivnosti u procesu proizvodnje, te je utvrđeno da nivo prirodnih i umjetnih radionukleida u uzorcima ne prelazi utvrđene maksimalno dozvoljene vrijednosti;
- izvršena su radiološka istraživanja ekološkog lanca u okruženju TE „Tuzla“; rezultati istraživanja prirodnih radionukleida u tlu, biljnom pokrivaču, te biljnim i animalnim proizvodima na lokaciji naselja Husino i Mihatovići su u okvirima prosječnih vrijednosti za ove vrste uzoraka;
- izvršeno je kontinuirano mjerenje koncentracije lebdećih čestica na odlagalištima produkata sagorijevanja u dva vremenska intervala od po 7 dana; na osnovu dobivenih rezultata ustanovljeno je da niti na jednoj ispitivanoj lokaciji koncentracije lebdećih čestica ne prelaze granične vrijednosti, shodno Pravilniku o načinu vršenja monitoringa kvaliteta zraka;
- uzorkovanje zemljišta izvršeno je na lokacijama kruga TE „Tuzla“ i odlagalištima produkata sagorijevanja Jezero i Divkovići; elementi koji prelaze granične vrijednosti prema važećoj legislativi su: mangan, nikl, arsen, hrom i željezo;
- provedeni interni auditi Integriranog sistema upravljanja pokazali su manju potrebu za korektivnim mjerama i poboljšanjima u pojedinim procesima;
- proveden je kontrolni audit Integriranog sistema poslovnog upravljanja kvalitetom i okolišem, a prema zahtjevima standarda ISO 9001:2015 i ISO 14001:2015;
- redovno se vrši selektivno prikupljanje sekundarnih sirovina i otpadnog materijala, kao i prikupljanje opasnog otpada, koji se predaje ovlaštenim operatorima na njegovo daljnje zbrinjavanje na okolišno prihvatljiv način i u skladu sa zakonom;

- *Study of the economic justification for the construction of a photovoltaic power plant at the Podveležje site;*
- *Preparation of investment-technical documentation for WPP “Bitovnja”;*
- *Implementation of ELEMEND-Erasmus+ project;*
- *Elaborate Study “Challenges and role of DSO in the new conditions of the electricity market”;*
- *Optimization of construction of primary 110/x kV substations for the needs of DSO for the period 2020 - 2030;*
- *Electric vehicle charging infrastructure project;*
- *Development of NECP (National Energy Climate Plan).*

Implementation of Environmental Policy and Environmental Protection Plans

TPP “Tuzla”

- *Carried out the measurement of the radioactivity of slag and ash, and the measurement of radioactivity in the production process, and it was established that the levels of natural and artificial radionuclides in the samples do not exceed the established maximum permitted values;*
- *A radiological investigation of the environmental chain has been carried out in the environment of TPP “Tuzla”; the results of investigations of natural radionuclides in soil, plant cover, and plant and animal products at the location of the settlements Husino and Mihatovići, are within the average values for these types of samples;*
- *Continuous measurement of the concentration of suspended particles at the landfills of combustion products was performed in two intervals of 7 days each; based on the obtained results, it was established that the concentrations of suspended particles do not exceed the limit values at any of the examined locations, in accordance with the Regulation on the method of monitoring air quality;*
- *Soil sampling was performed at the locations of the TPP “Tuzla” and landfills of combustion products Jezero and Divkovići; elements that exceed the limit values according to the current legislation are: manganese, nickel, arsenic, chromium and iron;*
- *Internal audits of Integrated Management Systems showed a slight need for corrective actions and improvements in individual processes;*
- *The control audit of the Integrated Quality and Environment Business Management System was carried out according to the requirements of ISO 9001:2015 and ISO 14001:2015;*
- *Regular selective collection of secondary raw materials and waste material, as well as collection of hazardous waste, which is handed over to authorized operators for further disposal in an environmentally acceptable manner and in accordance with the law;*

- u skladu sa zakonskim obavezama, realiziran je godišnji monitoring nivoa radioaktivnosti u procesu proizvodnje i bližoj okolini TE „Tuzla“.

TE „Kakanj“

- ishodovana je okolišna dozvola za izgradnju postrojenja za odsumporavanje i denitrifikaciju dimnih plinova;
- urađen je Elaborat o opravdanosti izgradnje postrojenja odsumporavanja za Blok 7;
- panirana su sredstva za izgradnju postrojenja za odsumporavanje dimnih plinova za Blok 7;
- završeno je smanjenje nivoa emisije buke iz mosta za vanjsku dopremu uglja;
- ograđivanje deponije većim dijelom je završeno i uglavnom je onemogućen prilaz deponiji trećim licima, postavljen videonadzor i fizički nadzor u I smjeni;
- remont uređaja se provodi po planu remonta, održavanja pogona i postrojenja;
- redovno se vrši preventivno održavanje kompletne vodovodne instalacije;
- kontinuirana kontrola ulaznih energenata;
- provode se aktivnosti u vezi s mjerenjem potrošnje vode, uglja, hemikalija, lož-ulja za potpalu, vlastite potrošnje električne energije;
- bilansiranje potrošnje sirovina i energenata po blokovima i proizvedenim kWh, te njihove analize;
- redovno održavanje i servisiranje mjerila utroška energije i vode;
- postavljeni su uređaji za mjerenje isporuke toplotne energije;
- u okviru vođenja tehnološkog procesa korištenja voda uspostavljen je sistem za kontinuirano praćenje kvantitativno-kvalitativnih karakteristika tehnološke otpadne vode, prije njenog ispuštanja u rijeku Bosnu;
- redovno čišćenje taložnika za obradu mulja iz zgušnjivača, gdje se prelivna voda vraća u flokulacijski bazen (koagulator), pri čemu je spriječeno oticanje u rijeku Bosnu;
- preispitani godišnji / višegodišnji troškovi koji nastaju održavanjem i ulaganjem u sanaciju / uređenje odlagališta šljake i pepela, te preispitana mogućnost plasmana šljake i pepela u industriju i/ili građevinarstvo;
- prazna ambalaža se predaje operatoru radi ponovne upotrebe;
- pravovremeno se skladišti otpad i trajno zbrinjava od strane ovlaštenog operatora;
- nastali inertni otpad se odlaže na deponiju šljake i pepela;
- vodi se računa o zamjeni opasnih materija nabavkom manje opasnih materija;
- provođenje preventivnih mjera nastanka zagađivanja;
- uspostavljen monitoring otpadnih tokova;
- nabavka uglja garantovanog sadržaja pepela;

- *In accordance with legal obligations, annual monitoring of the level of radioactivity in the production process and the immediate vicinity of TPP “Tuzla” was realized.*

TPP “Kakanj”

- *An Environmental Permit has been obtained for the construction of a flue gas desulphurisation and denitrification plant;*
- *A Justification Report for the construction of the flue gas desulphurization plant for Unit 7 was prepared;*
- *Funds have been planned for the construction of a flue gas desulphurization plant for Unit 7;*
- *Reduction of noise emission level from the bridge for external coal supply was completed;*
- *Fencing of the landfill has been mostly completed and access to the landfill to third parties has been mostly disabled, video surveillance and physical surveillance in the first shift have been set;*
- *Overhaul of the devices is carried out according to the plan of overhaul, maintenance of plants and facilities;*
- *Preventive maintenance of the entire plumbing installation is performed regularly;*
- *Continuous control of input energy sources;*
- *Activities related to measuring the consumption of water, coal, chemicals, fuel oil for ignition, own electricity consumption are regularly carried out;*
- *Balancing the consumption of raw materials and energy sources by Units and produced kWh, and their analysis;*
- *Energy and water consumption meters are regularly maintained and serviced;*
- *Installed devices for measuring heat supply;*
- *As part of the management of the technological process of water use, a system for continuous monitoring of quantitative-qualitative characteristics of technological wastewater has been established, before its discharge into the river Bosna;*
- *Regular cleaning of the settling tank for treatment of sludge from the thickener, where the overflow water is returned to the flocculation basin (coagulator), thus preventing runoff into the river Bosna;*
- *Reviewed annual / multi-year costs incurred by maintaining and investing in the rehabilitation / arrangement of slag and ash landfills, and reviewed the possibility of placing slag and ash in industry and/or construction;*
- *Empty packaging is handed over to the operator for reuse;*
- *Waste is stored in a timely manner and permanently disposed of by the authorized operator;*
- *The generated inert waste is disposed of in a slag and ash landfill;*

- kontinuirani monitoring emisije u zrak SO₂, CO, NO_x, CO₂, prašine (PM10), zatim protoka (suhi plin, normalni uslovi i 6 % O₂); mjerenje PM 2,5 nije obavezno, odnosno ne postoji granična vrijednost za ove čestice, a ni metoda i oprema koja će mjeriti navedeno i umjeravanje opreme;
- umjeravanje / provjera opreme za kontinuirani monitoring emisije prema standardu BAS EN 14181;
- nabavka meteorološke stanice „Vrana“;
- zbrinjavanje sekundarnih sirovina i opasnog otpada od strane ovlaštenog operatora;
- TE „Kakanj“ posjeduje važeći Certifikat o usklađenosti sistema okolišnog upravljanja sa zahtjevima standarda BAS EN ISO 14001:2017; usklađivanje postojećeg sistema sa zahtjevima novog standarda je podrazumijevalo izmjenu postojećih dokumenata i održavanje i postizanje odgovarajućih principa (ispunjenje zakonskih okolišnih zahtjeva, definiranje i objavljivanje okolišne politike, kao i definiranje i objavljivanje okolišnih ciljeva).

HE na Neretvi

- izvršeno mjerenje emisija zagađujućih materija u zrak na dimovodnom kanalu kotlovske postrojenja u skladu sa zakonskom legislativom; svi izmjereni parametri zadovoljavaju kriterije o ekološki prihvatljivom radu, odnosno ekološkoj ispravnosti (shodno Pravilniku o graničnim vrijednostima emisije u zrak iz postrojenja za sagorijevanje, „Službene novine FBiH“, br. 3/13);
- izvršeno uzorkovanje i ispitivanje kvaliteta (monitoring) otpadnih voda, u skladu sa važećom zakonskom legislativom;
- izvršeno uzorkovanje otpadne vode pogona HE „Grabovica“ na mjestu ispuštanja na desnoj obali i prema važećoj zakonskoj legislativi, svi izmjereni pokazatelji su bili u okviru dozvoljenih graničnih vrijednosti za ispuštanje otpadne vode u okoliš, tj. prirodni recipijent;
- za prihvatanje i tretman otpadnih voda pogona HE „Salakovac“ izgrađen je tipski biološki uređaj za prečišćavanje otpadnih voda, koji je postavljen na slobodnoj površini ispred strojare (brane) na lijevoj obali rijeke Neretve;
- pokrenute aktivnosti na redovnom servisiranju uređaja za prečišćavanje otpadnih voda u pogonu HE „Salakovac“, a u cilju otklanjanja kvarova koji dovode do nedovoljnog prečišćavanja otpadnih voda;
- izvršeno mjerenje nivoa buke koja nastaje pri radu pogona HE „Jablanica“, HE „Grabovica“ i HE „Salakovac“, u skladu sa važećom zakonskom i podzakonskom legislativom; svi izmjereni pokazatelji zadovoljavaju kriterije o ekološki prihvatljivom radu pogona HE „Jablanica“, HE „Grabovac“ i HE „Salakovac“, u smislu emisije buke u dnevnom i noćnom periodu rada pogona;
- urađen Program poboljšanja Integriranog sistema upravljanja (ISU), na osnovu kojeg su provedene aktivnosti poboljšanja svih okolišnih aspekata i postavljenih ciljeva zaštite okoliša.

- *Care is taken to replace hazardous substances with less hazardous substances;*
- *Implementation of preventive measures for the occurrence of pollution;*
- *Waste flow monitoring has been established;*
- *Procurement of coal with guaranteed ash content;*
- *Continuous monitoring of air emissions of SO₂, CO, NO_x, CO₂, dust (PM10), then flow (dry gas, normal conditions and 6% O₂); the measurement of PM 2.5 is not mandatory, i.e., there is no limit value for these particles, nor is there a method and equipment that will measure the above and calibration of the equipment;*
- *Calibration / verification of equipment for continuous emission monitoring according to BAS EN 14181;*
- *Procurement of meteorological station “Vrana”;*
- *Disposal of hazardous waste and hazardous waste by an authorized operator;*
- *TPP “Kakanj” has a valid Certificate of compliance of the environmental management system with the requirements of the standard BAS EN ISO 14001: 2017; harmonization of the existing system with the requirements of the new standard implied modification of existing documents and maintenance and achievement of appropriate principles (fulfilment of legal environmental requirements, definition and publication of environmental policy, as well as definition and publication of environmental objectives).*

HPPs on the r. Neretva

- *Measurement of emissions of pollutants into the air on the flue duct of the boiler plant in accordance with the legislation; all measured parameters meet the criteria of environmentally friendly operation, i.e., environmental safety (according to the Regulation on Limit Values of Air Emissions from Combustion Plants, “Official Gazette of FBiH”, No. 3/13);*
- *Wastewater sampling and quality testing (monitoring) was performed in accordance with applicable legislation;*
- *Performed sampling of wastewater from HPP “Grabovica” at the point of discharge on the right bank and according to applicable legislation, all measured indicators were within the permitted limits for discharge of wastewater into the environment, i.e., natural recipient;*
- *For the acceptance and treatment of wastewater from the HPP “Salakovac”, a standard biological wastewater treatment plant was built, which was placed on a free surface in front of the machine room (dam) on the left bank of the Neretva river;*
- *Activities have been initiated on regular servicing of the wastewater treatment plants in the HPP “Salakovac”, in order to eliminate faults that lead to insufficient wastewater treatment;*



Elektrodistributivne podružnice

ED Tuzla

- pribavljena građevinska dozvola i objavljen tender za nabavku usluge izgradnje novog centralnog skladišta za opasni i neopasni otpad;
- nabavljene dodatne kante za prikupljanje otpada, prema potrebama na terenu;
- kontinuirano se ugovara usluga zbrinjavanja opasnog otpada i prodaje sekundarnih sirovina i otpadnih materijala;
- izvršeno ispitivanje kvaliteta vode na izlazu iz dva separatora u poslovnom krugu podružnice;
- izvršeno poribljavanje hidroakumulacije Sniježnica;
- izvršena nabavka i ugradnja krakmetara i seizmografa na objektu brana Sniježnica;
- okončana izrada Idejnog i Glavnog projekta sanacije klizišta na desnom boku brane Sniježnica; u toku je nabavka usluge za vanjsku reviziju Glavnog projekta;
- izvršen nadzorni audit Sistema okolišnog upravljanja BAS EN ISO 14001.

ED Sarajevo

- urađen Glavni projekt rekonstrukcije skladišta za privremeno skladištenje otpada na lokalitetu TS Azot 1 Vitkovići, općina Goražde;
- potpisani ugovori za prodaju sekundarnih sirovina i otpadnih materijala, kao i zbrinjavanja opasnog otpada;
- izvršena predaja odbačene električne i elektronske opreme ovlaštenom operatoru, radi njene daljnje prerade i zbrinjavanja;
- izvršeno redovno čišćenje korita rijeke Osanica i održavanje vodozahvata;
- poštuju se svi uslovi iz Okolišne dozvole za mHE Osanica 1 u Goraždu

- *Measurement of noise levels generated during the operation of HPP “Jablanica”, HPP “Grabovica” and HPP “Salakovac” was performed, in accordance with applicable laws and bylaws; all measured indicators meet the criteria for environmentally friendly operation of HPP “Jablanica”, HPP “Grabovac” and HPP “Salakovac”, in terms of noise emissions during the day and night operation of the plant;*
- *The Integrated Management System (ISU) Improvement Program was developed, on the basis of which the activities were carried out to improve all environmental aspects and set environmental protection goals.*

Electricity Distribution Subsidiaries

ED Tuzla

- *A building permit was obtained and a tender for the procurement of the service of construction of a new central storage for hazardous and non-hazardous waste was announced;*
- *Procured additional waste collection bins, according to on-site needs;*
- *The service of hazardous waste disposal and sale of secondary raw materials and waste materials is continuously contracted;*
- *The water quality was tested at the outlet of the two separators in the business circle of the Branch;*
- *The restocking of the Sniježnica water reservoir was carried out;*
- *Procurement and installation of arm meters and seismographs on the “Sniježnica” dam facility was performed;*
- *The development of the Preliminary and Main Design of landslide rehabilitation on the right side of the Sniježnica Dam has been completed, procurement of the service for external revision of the Main Design is ongoing;*
- *Performed supervisory audit of the Environmental Management System BAS EN ISO 14001.*

ED Sarajevo

- *The Main Design for the reconstruction of the temporary waste storage at the site of TS Azot 1 Vitkovići, Municipality of Goražde was prepared;*
- *Contracts have been signed for the sale of secondary raw materials and waste materials, as well as the disposal of hazardous waste;*
- *Discarded electrical and electronic equipment handed over to the authorized operator, for its further processing and disposal;*
- *Performed regular cleaning of the Osanica riverbed and maintenance of water intake;*
- *All conditions from the Environmental Permit for SHPP Osanica 1 in Goražde are observed (environmentally acceptable flow) and environmental*



- (ekološki prihvatljiv protok) i provode mjere zaštite okoliša;
- vrši se kontinuirano godišnje poribljavanje rijeke Osanica u Goraždu.

ED Bihać

- Federalno ministarstvo okoliša i turizma je izdalo Okolišnu dozvolu za objekat HE „Una Kostela“, Bihać, sa rokom važenja od pet (5) godina;
- pokrenut je postupak nabavke usluge - Izrada Glavnog projekta sa revizijom za izgradnju skladišta za privremeno skladištenje otpada na lokalitetu Centralnog skladišta Vedro Polje;
- realizirano je redovno godišnje poribljavanje sliva rijeka Une i Krušnice;
- kontinuirano je vršena prodaja sekundarnih sirovina i opasnog otpada, kao i predaja odbačene električne i elektronske opreme ovlaštenom operatoru.

ED Zenica

- izvršena je i usluga održavanja, odnosno prokres-sječa šume ispod trase elektrodistributivne mreže, a sve u cilju povećanja pouzdanosti trase i smanjenja broja ispada na elektroenergetskim objektima;
- realiziran je postupak prodaje sekundarnih sirovina i otpadnih materijala;
- izvršena je predaja odbačene električne i elektronske opreme ovlaštenom operatoru.

ED Mostar

- kontinuirano se vrši nadzor nad ispravnošću uljnih jama u zidanim TS-cama 35/10 kV i 20(10)/04 kV i po potrebi se interveniše na njima;
- realiziran je postupak prodaje sekundarnih sirovina i otpadnih materijala.

protection measures are implemented;

- Continuous annual restocking of the river Osanica in Goražde is carried out.

ED Bihać

- The Federal Ministry of Environment and Tourism issued an Environmental Permit for the facility of HPP „Una Kostela“, Bihać, with a validity period of five (5) years;
- Initiated the service procurement procedure - Development of the Main Design with revision for the construction of temporary waste storage at the site of the Central Warehouse Vedro Polje;
- Carried out the regular annual fish stocking of Una and Krušnica River;
- The sale of secondary raw materials and hazardous waste was continuously performed, as well as the handover of discarded electrical and electronic equipment to an authorized operator.

ED Zenica

- The maintenance service, i.e., the cutting down the forest below the route of the electricity distribution network, was also performed, all with the aim of increasing the reliability of the route and reducing the number of outages at power facilities;
- The procedure of selling secondary raw materials and waste materials was realized;
- Discarded electrical and electronic equipment was handed over to the authorized operator.

ED Mostar

- The quality of oil pits in masonry 35/10 kV and 20(10)/04 kV TSs is continuously monitored and interventions are made if necessary;
- The procedure of selling secondary raw materials and waste materials was realized.

Oblast općih poslova

- realizirani ugovoreni poslovi pružanja usluga fizičko-tehničke zaštite i transporta novca u EPBiH;
- izvršeno ispitivanje aparata za početno gašenje požara, ispravnost i funkcioniranje ugrađenog sistema aktivne zaštite od požara, i ispravnost i funkcionalnost hidrantske mreže, kao i ispitivanje i funkcioniranje sistema vatrodojave;
- iz oblasti zaštite od požara pružana stručna pomoć podružnicama Društva;
- vršeni su periodični ljekarski pregledi zaposlenika na radnim mjestima sa posebnim uslovima rada;
- provedeno je djelomično ispitivanje fizičkih, hemijskih i bioloških štetnosti i mikroklimе u radnoj sredini i pregled strujnih krugova i gromobranskih instalacija u skladu sa zakonskom regulativom;
- kontinuirane aktivnosti – nadzor, održavanje i poboljšanje sistema upravljanja prema ISO 9001:2015 i ISO 45001:2018 u Direkciji Društva;
- učešće u postupku nabavke usluge recertificiranja integriranog sistema upravljanja (sistem upravljanja kvalitetom prema zahtjevima ISO 9001:2015 i sistem upravljanja zaštitom zdravlja i sigurnosti na radu prema zahtjevima ISO 45001:2018) Direkcije Društva i nabavke međunarodnih i evropskih standarda (ISO, IEC, IEE, DIN, EN itd.) i bosanskohercegovačkih standarda (BAS) za potrebe EPBiH;
- proveden recertifikacijski audit integriranog sistema upravljanja u Direkciji Društva od strane ovlaštene certifikacijske kuće i potvrđeno da je sistem upravljanja koji je primijenjen u organizaciji usklađen sa zahtjevima standarda ISO 9001:2015 i ISO 45001:2018 (dodijeljeni certifikati br. MS 2004119.00 i MS 2004219.00);
- kontinuirane aktivnosti praćenja ugovora (sukcesivna isporuka i ažuriranja međunarodnih i evropskih standarda (ISO, IEC, IEE, DIN, EN itd.) i bosanskohercegovačkih standarda od Instituta za standardizaciju BiH za potrebe EPBiH;
- završene aktivnosti na etažiranju PTZ EPBiH u svrhu regulisanja suvlasničkih odnosa sa Elektroprenosom a.d. Banja Luka, OP Sarajevo;
- učešće u izradi Izvedbenog projekta za sanaciju i adaptaciju Upravne zgrade „ED Bihać“ u Bosanskoj i Poslovnog objekta u Krupskoj bb, te njegova revizija – okončana izrada projektne dokumentacije;
- učešće u realizaciji ugovora izrade Idejnog i Izvedbenog projekta sanacije Centra za potrošače u PTZ JP „Elektrodistribucija“ Sarajevo; raspisan tender za izvođenje radova;
- učešće u aktivnostima eksproprijacije skladišta i zemljišta u Jablanici, vlasništvo HE na Neretvi, te dodjeli stanova EPBiH u skladu sa Pravilnikom o vraćanju, dodjeli i prodaji stanova;
- kontinuirane aktivnosti sa Agencijom za privatizaciju na regulisanju statusa

General Affairs

- *Implemented contracted activities of providing services of physical and technical protection and money transport in EPBiH;*
- *Conducted inspection of initial fire extinguishers, the correctness and functioning of the built-in active fire protection system, and the correctness and functionality of the hydrants network, as well as the testing and functioning of the fire alarm system;*
- *in the field of fire protection, professional assistance was provided to the Company's subsidiaries;*
- *Performed periodical medical examinations of employees working in special working conditions;*
- *Performed partial examination of physical, chemical and biological hazards and micro climate in the working environment, and inspection of circuits and lightning rods installations in accordance with legal regulations;*
- *Continuous activities - supervision, maintenance and improvement of the management system according to ISO 9001:2015 and ISO 45001:2018 in the Company's Directorate;*
- *Participation in the procurement procedure for recertification of the integrated management system (quality management system according to the requirements of ISO 9001:2015 and occupational health and safety management system according to the requirements of ISO 45001:2018) of the Company Directorate and procurement of international and European standards (ISO, IEC, IEE, DIN, EN, etc.) and Bosnia and Herzegovina standards (BAS) for the needs of EPBiH;*
- *Conducted recertification audit of the integrated management system in the Company's Directorate by an authorized certification body and confirmed that the management system applied in the organization complies with the requirements of ISO 9001:2015 and ISO 45001:2018 (certificates No. MS 2004119.00 and MS 2004219.00 awarded);*
- *Continuous contract monitoring activities (successive delivery and updating of international and European standards (ISO, IEC, IEE, DIN, EN, etc.) and Bosnia and Herzegovina standards from the Institute for Standardization of BiH for the needs of EPBiH;*
- *Completed activities related to apportioning of the EPBiH business and technical building (BTB) with the aim of regulating joint ownership with Elektroprenos a.d. Banja Luka, OP Sarajevo;*
- *Participation in the preparation of the Detailed Design for Rehabilitation and Adaptation of the Administrative Building "ED Bihać" in Bosanska and the Business Building in Krupska bb, and its revision - completed preparation of project documentation;*
- *Participation in the implementation of the contract for the development of the Preliminary and Detailed Design for the rehabilitation of the Consumer*

- i povratu imovine u RH upisane u Centralni registar pasivnog podbilansa, saradnja sa ZD rudnicima u vezi sa povratom i korištenjem imovine u inostranstvu u vlasništvu rudnika (Salines – Podgora);
- aktivnosti na rješavanju imovinsko-pravnih odnosa – utvrđivanje prava vlasništva nad imovinom EPBiH;
- učešće u upravnom postupku (žalbeni postupak) za rješavanje imovinsko-pravnih odnosa u vezi sa pristupnim putem, u vezi sa objektom Biograd na Moru, Republika Hrvatska, vlasništvo EPBiH.

Oblast IKT-a

- obezbjeđivanje operativne podrške za 47 poslovnih servisa koji su definirani Katalogom poslovnih IKT servisa, a čiji su korisnici različite djelatnosti unutar EPBiH;
- obezbjeđivanje IKT infrastrukturne i servisne osnove za uvođenje novih servisa, s ciljem podrške uspješnom vođenju, upravljanju i održavanju elektroenergetskog sistema i efikasnom provođenju svih poslovnih procesa i planiranju razvoja elektroenergetskog sistema;
- izgradnja IKT infrastrukture u skladu sa zakonskom regulativom i propisima Regulatorne agencije za komunikacije, te politikom sigurnosti IKT sistema;
- obezbjeđivanje integriteta informacije u IKT sistemu (jedinствен unos informacije i njena višestruka upotreba) kroz konsolidaciju tehničkog i poslovnog informacionog sistema;
- kontinuirano poboljšavanje sistema za upravljanje servisima;
- aktivno učešće u realizaciji razvojnih i kapitalnih projekata.



Centre in BTB of PE "Elektrodistribucija" Sarajevo; tender for execution of works announced;

- *Participation in the activities of expropriation of warehouses and land in Jablanica, property of HPPs on the river Neretva, and allocation of apartments of EPBiH in accordance with the Rulebook on return, allocation and sale of apartments;*
- *Continuous activities with the Agency for Privatization related to regulating status and restitution of property in the Republic of Croatia registered in the Central registry of passive sub-balance, cooperation with ZD mines related to the restitution and use of mines' property abroad (Salines – Podgora);*
- *Activities on resolving property-legal relations - determining the right of ownership over the property of EPBiH;*
- *Participation in the administrative procedure (appeal procedure) for resolving property-legal relations in connection with the access road, in connection with the facility Biograd na Moru, Republic of Croatia, owned by EPBiH.*

ICT

- *Ensuring operative support for 47 business services defined in the Catalogue of business ICT services, used in different activities within EPBiH;*
- *Providing ICT infrastructure and service basis for the introduction of new services, with the aim of supporting the successful management, administration and maintenance of the power system and efficient implementation of all business processes and planning the development of the power system;*
- *Construction of ICT infrastructure in accordance with laws and regulations of the Regulatory Agency for Communications and the ICT system safety policy;*
- *Ensuring information integrity in the ICT system (unique input of information and its multiple use) through consolidation of the technical and business information system;*
- *Continuous improvement of services management system;*
- *Active participation in implementation of development and capital projects.*

REALIZACIJA ELEKTROENERGETSKOG BILANSA

U 2019. godini ostvarena je ukupna proizvodnja električne energije u količini 6.033,8 GWh, što je za 957,9 GWh ili 13,7% manje od planirane proizvodnje, a za 1.211,6 GWh ili za 16,7% manje od ostvarene proizvodnje u 2018. godini.

Rad elektroenergetskog sistema EPBiH u 2019. godini karakteriziraju:

- ukupna proizvodnja električne energije manja za 13,7% od planirane, a za 16,7% manja od proizvodnje u 2018. godini;
- ukupno ostvareni prirodni dotoci vode bili veći od planiranih za 261,2 GWh ili za 12,1%, a za 9,1 GWh ili 0,4% veći od ostvarenih dotoka u 2018. godini;
- ukupne nabavke uglja manje od bilansom planiranih količina za 7,4%, a za 7,9% manje od nabavki u 2018. godini;
- ukupna potrošnja električne energije veća od planirane za 110,3 GWh ili za 2,2%, a za 92,0 GWh ili 1,8% veća od ukupno ostvarene potrošnje u 2018. godini;
- tržišna prodaja električne energije (uključujući kupoprodaju) veća je od bilansom planirane (gdje nije planirana količina za kupoprodaju) za 4,5 GWh, odnosno 0,2%, a za 708,3 GWh ili za 22,9% manja u odnosu na ostvarenu tržišnu prodaju u 2018. godini.

REALIZATION OF POWER BALANCE

In 2019, total generated electricity amounted to 6,033.8 GWh, which is 957.9 GWh or 13.7% less than planned, and 1,211.6 GWh or 16.7% less than generation in 2018.

Operations of the EPBiH energy system in 2019 are characterized by the following:

- *total generation was by 13.7% lower than planned, and by 16.7% higher than generation in 2018;*
- *the total realized natural water inflows were by 261,2 GWh or 12,1% higher than planned, and by 9,1 GWh or 0,4% higher than the realized inflows in 2018;*
- *total coal purchases by 7.4% lower than the quantities planned by balance sheet, and by 7.9% lower than the purchases in 2018;*
- *total electricity consumption is higher than the planned by 110,3 GWh or 2,2%, and by 92,0 GWh or 1.8% higher than the total consumption in 2018;*
- *the market sale of electricity (including purchase and sale) was by 4.5 GWh or 0.2% higher than planned (where no quantity is planned for sale), and by 708.3 GWh or 22.9% lower than the realized market sales in 2018.*

Sa aspekta količina i dinamike isporuke električne energije u 2019. godini:

- zadovoljene su u potpunosti sve potrebe krajnjih kupaca koje snabdijeva EPBiH u količini 4.807,6 GWh;
- realizirane su ugovorene obaveze za prodaju električne energije u količini 1.234,8 GWh;
- realizirana je ukupna prodaja električne energije vezane trgovine u količini 937,6 GWh;
- realizirana je prodaja po osnovu ugovora o poslovno-tehničkoj saradnji u količini 163,7 GWh;
- realizirana je prodaja električne energije po osnovu ostvarenog debalansa i regulacija u količini 42,0 GWh.

In terms of quantities and dynamics of electricity supply, 2019 saw:

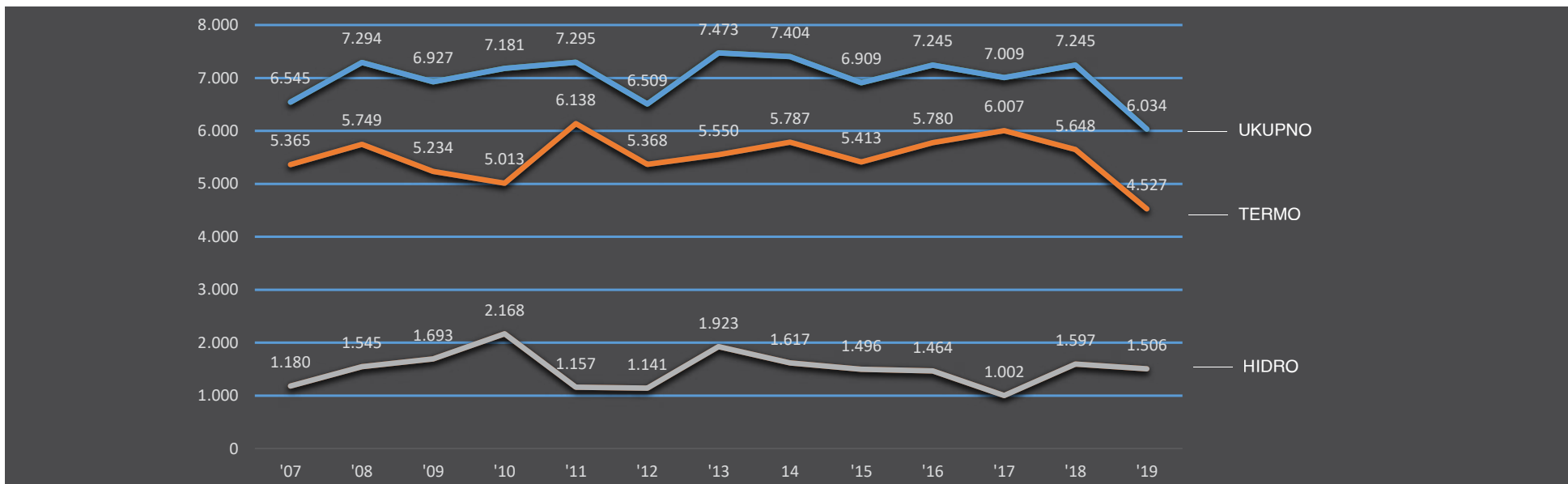
- *completely satisfied all the needs of end customers to which the EPBiH supplies 4,807.6 GWh;*
- *fulfilment of contractual obligations related to the sales of electricity in the amount of 1,234.8 GWh;*
- *realized total sales of electricity in countertrade in the amount of 937.6 GWh;*
- *realized sales on the basis of contracts on business and technical cooperation in the amount of 163.7 GWh;*
- *realized sales of electricity under realized imbalance and regulation in the amount of 42.0 GWh.*

Proizvodnja (u GWh)	2013.	2014.	2015.	2016.	2017.	2018.	2019.
HE	1.924	1.617	1.496	1.465	1.002	1.597	1.506
TE	5.549	5.787	5.413	5.780	6.007	5.648	4.527
Ukupno	7.473	7.404	6.909	7.245	7.009	7.245	6.034

TREND-Proizvodnja električne energije (GWh)

Generation (in GWh)	2013	2014	2015	2016	2017	2018	2019
HPPs	1.924	1.617	1.496	1.465	1.002	1.597	1.506
TPPs	5.549	5.787	5.413	5.780	6.007	5.648	4.527
Total	7.473	7.404	6.909	7.245	7.009	7.245	6.034

TREND – Electricity generation (GWh)



Hidroelektrane („Jablanica“, „Grabovica“, „Salakovac“ i male hidroelektrane u vlasništvu EPBiH) su proizvele 1.506,5 GWh, što je za 13,5 GWh ili za 0,9% više od plana te za 90,6 GWh ili za 5,7% manje od ostvarene proizvodnje u 2018. godini.

Termoelektrane „Tuzla“ i „Kakanj“ ostvarile su proizvodnju 4.527,3 GWh, što je za 931,4 GWh ili za 17,1% manje od plana, a za 1.121,0 GWh ili 19,8% manje u odnosu na proizvodnju TE u 2018. godini. U TE „Tuzla“ proizvodnja je realizirana ispod plana, sa procentom ostvarenja 85,4%, dok je u TE „Kakanj“ taj procenat iznosio 79,4%.

Od ukupne proizvodnje za 2019. godinu, 75,0% odnosi se na proizvodnju termoelektrana dok se 25,0% odnosi na proizvodnju hidroelektrana, što predstavlja povoljniji hidro-termo odnos u poređenju sa planom i nekoliko prethodnih godina.

Hydro power plants („Jablanica“, „Grabovica“, „Salakovac“ and small hydro power plants owned by EPBiH) generated 1,506.5 GWh, which is by 13.5 GWh or 0.9% more than defined in the Plan, and by 90.6 GWh or 5.7% less than the generation realized in 2018.

Thermal power plants „Tuzla“ and „Kakanj“ generated 4,527.3 GWh, which is by 931.4 GWh or 17.1% less than defined in the Plan, and by 1,121.0 GWh or 19.8% lower than generation in TPPs in 2018. In TPP „Tuzla“, generation was lower than defined in the Plan, with 85.4% of realization, while in TPP Kakanj this percentage was 79.4%.

Out of the total generation in 2019, 75.0% relates to generation in thermal power plants, while 25.0% relates to generation in hydro power plants, representing a more favourable hydro-thermal ratio compared to the ratio defined in the Plan and in several previous years.

PROIZVODNJA odnos (%)	2019.	Plan 2019.	2018.	2017.	2016.	2015.	2014.	2013.
HE	25,0%	21,4%	22,0%	14,3%	20,2%	21,7%	21,8%	25,7%
TE	75,0%	78,6%	78,0%	85,7%	79,8%	78,3%	78,2%	74,3%

Potrošnja

Ukupna potrošnja električne energije obuhvata bruto distributivnu potrošnju (bez neto potrošnje drugih snabdjevača) i potrošnju direktnih potrošača. U 2019. godini, ukupna potrošnja električne energije ostvarena je u količini 5.181,6 GWh, što je za 110,3 GWh ili 2,2% više od plana po EEB-u, a za 92,0 GWh ili za 1,8% više od potrošnje u 2018. godini.

U 2019. godini je iz elektroenergetskog sistema EPBiH isporučeno u saldu 853,7 GWh (prodato 2.378,1 GWh, kupljeno 1.524,4 GWh), a po drugim osnovama u saldu primljeno 1,5 GWh.

Ukupna količina tržišne prodaje iznosila je 2.378,1 GWh, što je za 4,5 GWh ili 0,2% više od planirane po EEB-u, a za 22,9% manje u odnosu na 2018. godinu.

U 2019. godini kupljena je električna energija u količini 1.524,4 GWh.

Proizvodnja sporednih proizvoda

Osim električne energije, u termoelektranama je ostvarena proizvodnja sporednih proizvoda i to:

- toplotne energije i tehnološke pare: ukupno 114,4 GWh u TE „Tuzla“,
- toplotne energije 19,8 GWh u TE „Kakanj“.

Nabavke uglja

Ukupne nabavke uglja za potrebe rada termoelektrana u 2019. godini iznosile su 5.351,5 hilj. tona, što je manje od bilansom planiranih količina za 428,5 hilj. tona ili 7,4%. U odnosu na 2018. godinu, ukupno nabavljene količine uglja bile su manje za 460,1 hilj. tona ili za 7,9%.

Ukupno ostvarene zalihe na depoima termoelektrana na kraju 2019. godine iznosile su 678,1 hilj. tona, što je za 245,1 hilj. tona više od plana.

Toplotna vrijednost utrošenog uglja iznosila je ukupno 11.846 (kJ/kg), što je za 70 (kJ/kg) ili za 0,6% lošije od bilansnog plana.

GENERATION ratio (%)	2019	Plan 2019	2018	2017	2016	2015	2014	2013
HPPs	25,0%	21,4%	22,0%	14,3%	20,2%	21,7%	21,8%	25,7%
TPPs	75,0%	78,6%	78,0%	85,7%	79,8%	78,3%	78,2%	74,3%

Consumption

Total electricity consumption includes gross distributive consumption (excluding net consumption of other suppliers) and consumption by direct customers. In 2019, total consumption of electricity was realized in the amount of 5,181.6 GWh, which is by 110.3 GWh or 2.2% more than planned in the EEB, and by 92.0 GWh or by 1.8% more than consumption in 2018.

In 2019, EPBiH power system supplied in balance 853.7 GWh (sold 2,378.1 GWh, and bought 1,524.4 GWh), while 1.5 GWh were received in balance bases.

The total volume of market sales amounted to 2,378.1 GWh, which is 4.5 GWh or 0.2% more than planned by the EEB, and 22.9% less than in 2018.

In 2019, 1,524.4 GWh of electricity was purchased.

Generation of by-products

In addition to electricity, the following by-products were generated in thermal power plants:

- thermal energy and process steam, in total 114.4 GWh in TPP “Tuzla”,
- thermal energy, 19.8 GWh in TPP “Kakanj”.

Purchases of coal

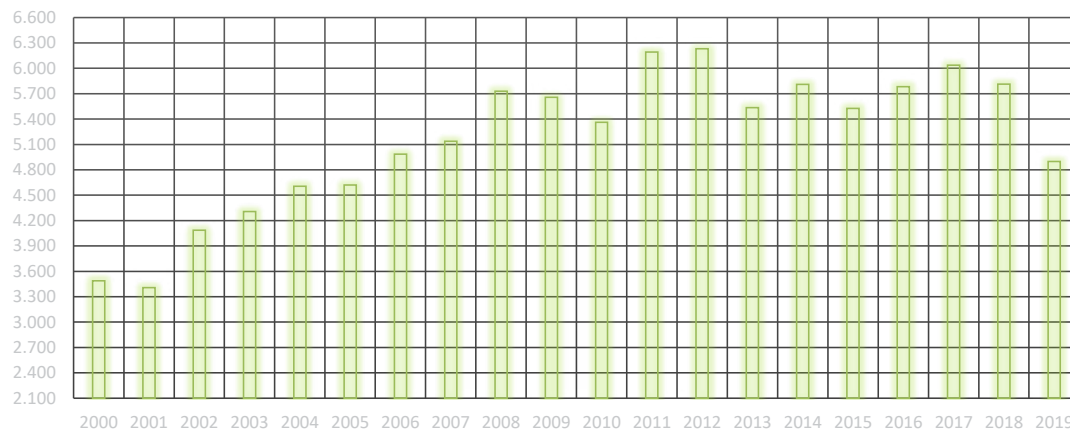
Total coal purchased for the needs of operation of thermal power plants in 2019 amounted to 5,351.5 thousand tons, which is by 428.5 thousand tons or 7.4% less than the quantities planned in the Balance. In comparison with 2018, total purchased coal quantities were by 460.1 thousand tons or 7.9% lower.

Total realized stock on thermal power plants depots at the end of 2019 amounted to 678.1 thousand tons, which is by 245.1 thousand tons more than defined in the Plan.

Thermal value of consumed coal amounted to 11,846 (kJ/kg), which is by 70 (kJ/kg) or 0.6% lower than the balance plan.

TREND NABAVKA UGLJA (u hilj. tona)

TREND COAL SUPPLY (in th. tons)



REALIZACIJA ELEKTROENERGETSKOG BILANSA ZA 2019. GODINU

REALIZATION OF THE POWER BALANCE FOR 2019

ELEMENTI BILANSA	Ostvarenje	Plan	Ostvarenje	U odnosu na Plan 2019.	U odnosu na 2018.
	2019.	2019.	2018.	Promjena	Promjena
	GWh	GWh	GWh	%	%
1. PROIZVODNJA	6.033,8	6.991,7	7.245,4	-13,7	-16,7
Hidroelektrane	1.506,5	1.493,0	1.597,1	0,9	-5,7
- HE na Neretvi	1.444,0	1.411,5	1.533,6	2,3	-5,8
- male HE	62,5	81,4	63,5	-23,2	-1,5
Vjetroelektrane	0,0	40,0	0,0	-100,0	
Termoelektrane	4.527,3	5.458,7	5.648,3	-17,1	-19,8
- TE "Tuzla"	2.758,9	3.231,5	3.196,0	-14,6	-13,7
- TE "Kakanj"	1.768,4	2.227,2	2.452,3	-20,6	-27,9
2. PRIJEM, kupovina i korekcija	1.556,0	466,2	991,2	233,8	57,0
3. UKUPNO RASPOLOŽIVO (1+2)	7.589,8	7.457,8	8.236,6	1,8	-7,9
4. POTROŠNJA	5.181,6	5.071,3	5.089,6	2,2	1,8
Bruto distributivna potrošnja	4.688,3	4.597,6	4.625,3	2,0	1,4
Direktni potrošači	493,3	473,7	464,3	4,1	6,2
5. PRODAJA- isporuka i korekcija	2.408,2	2.386,5	3.147,0	0,9	-23,5
6. UKUPNE POTREBE (4+5)	7.589,8	7.457,8	8.236,6	1,8	-7,9

BALANCE ELEMENTS	Realization	Plan	Realization	In comparison with 2019 Plan	In comparison with 2018
	2019	2019	2018	Change	Change
	GWh	GWh	GWh	%	%
1. GENERATION	6.033,8	6.991,7	7.245,4	-13,7	-16,7
Hydro power plants	1.506,5	1.493,0	1.597,1	0,9	-5,7
- HPPs on the Neretva River	1.444,0	1.411,5	1.533,6	2,3	-5,8
- small HPPs	62,5	81,4	63,5	-23,2	-1,5
Wind power plants	0,0	40,0	0,0	-100,0	
Thermal power plants	4.527,3	5.458,7	5.648,3	-17,1	-19,8
- TPP „Tuzla“	2.758,9	3.231,5	3.196,0	-14,6	-13,7
- TPP „Kakanj“	1.768,4	2.227,2	2.452,3	-20,6	-27,9
2. ADMISSION, purchase and correction	1.556,0	466,2	991,2	233,8	57,0
3. TOTAL AVAILABLE (1+2)	7.589,8	7.457,8	8.236,6	1,8	-7,9
4. CONSUMPTION	5.181,6	5.071,3	5.089,6	2,2	1,8
Gross distribution consumption	4.688,3	4.597,6	4.625,3	2,0	1,4
Direct consumers	493,3	473,7	464,3	4,1	6,2
5. SALES - supply and correction	2.408,2	2.386,5	3.147,0	0,9	-23,5
6. TOTAL NEEDS (4+5)	7.589,8	7.457,8	8.236,6	1,8	-7,9

REZULTAT POSLOVANJA JP ELEKTROPRIVREDA BIH ZA 2019. GODINU

EPBiH BUSINESS OPERATION RESULT FOR 2019

UKUPNI PRIHODI u hiljadama KM		2019.	Plan 2019.	2018.	Index 19/pl	Index 19/18
1.	Prihodi od prod. električne energije i pomoćnih usluga	995,058	990,593	997,217	100.5	99.8
	- prihod od prodaje krajnjim kupcima EPBiH	719,697	710,430	695,243	101.3	103.5
	- kupci na 110 kV	57,093	54,355	50,411	105.0	113.3
	- kupci na 35 kV *	36,352	36,663	36,428	99.2	99.8
	- kupci na 10 kV *	128,170	124,718	121,352	102.8	105.6
	- kupci na 0,4 kV domaćinstva	311,969	310,326	307,962	100.5	101.3
	- kupci na 0,4 kV * ostala potrošnja	170,714	169,532	164,704	100.7	103.6
	- kupci na 0,4 kV javna rasvjeta	14,928	14,402	13,852	103.7	107.8
	- neovlaštena potrošnja (svi naponi na distributivnoj mreži)	471	434	533	108.4	88.2
	- prihod od nefakturisane električne energije	0	0	0		0.0
	- prihod po osnovu UPTS-a (energija+mrežarina)	17,736	17,597	17,552	100.8	101.0
	- prihod od prodaje iz obnovljivih izvora	5,865	0	0		
	- prihod od prodaje drugim kupcima u BiH	217,431	228,968	219,765	95.0	98.9
	- prihod od izvoza električne energije	21,151	18,134	27,431	116.6	77.1
	- prihod od pomoćnih usluga uključujući i el. energ. u vezi sa pomoćnim uslugama	13,178	15,464	37,226	85.2	35.4
2.	Prihod od prod. tehn. pare i topl. energije	14,243	16,107	14,670	88.4	97.1
	-prihod od tehnološke pare	3,248	3,094	3,141	105.0	103.4
	- prihod od toplotne energije	9,514	11,509	9,945	82.7	95.7
	- prihod od prodaje ostalih spor. i nus proizvoda	1,480	1,504	1,585	98.4	93.4
3.	Prihodi od prodaje materijala i usluga	26,910	26,908	27,052	100.0	99.5
	- prihod od naknada priključenja	17,860	17,466	17,033	102.3	104.9
	- ostali prihodi od prodaje materijala i usluga	9,020	9,442	10,019	95.8	90.3
4.	Prihod od finansiranja	6,136	3,512	6,498	174.7	94.4
5.	Ostali prihodi	20,042	11,607	15,239	172.7	131.5
	UKUPNO (1 do 5)	1,062,389	1,048,726	1,060,676	101.3	100.2

TOTAL REVENUES in thousands BAM		2019.	plan 2019.	2018.	index 19/pl	index 19/18
1.	Revenues from sales of electricity and auxiliary services	995,058	990,593	997,217	100.5	99.8
	- revenues from sales to end-customers of EPBiH	719,697	710,430	695,243	101.3	103.5
	- customers at 110 kV	57,093	54,355	50,411	105.0	113.3
	- customers at 35 kV *	36,352	36,663	36,428	99.2	99.8
	- customers at 10 kV *	128,170	124,718	121,352	102.8	105.6
	- customers at 0.4 kV households	311,969	310,326	307,962	100.5	101.3
	- customers at 0.4 kV * other consumption	170,714	169,532	164,704	100.7	103.6
	- customers at 0.4 kV public lighting	14,928	14,402	13,852	103.7	107.8
	- unauthorized consumption (all voltages in the distributive network)	471	434	533	108.4	88.2
	- revenues from uninvoiced electricity	0	0	0		0.0
	- revenues based on CBTCs (power+network fee)	17,736	17,597	17,552	100.8	101.0
	- revenue from sales from renewable sources	5,865	0	0		
	- revenue from sales to other customers in BiH	217,431	228,968	219,765	95.0	98.9
	- revenues from export of electricity	21,151	18,134	27,431	116.6	77.1
	- revenues from auxiliary services, including electricity related to auxiliary services	13,178	15,464	37,226	85.2	35.4
2.	Revenues from sales of process steam and thermal energy	14,243	16,107	14,670	88.4	97.1
	- revenues from process steam	3,248	3,094	3,141	105.0	103.4
	- revenues from thermal energy	9,514	11,509	9,945	82.7	95.7
	- revenues from sales of secondary products and by-products	1,480	1,504	1,585	98.4	93.4
3.	Revenues from sales of materials and services	26,910	26,908	27,052	100.0	99.5
	- revenues from connection fees	17,860	17,466	17,033	102.3	104.9
	- other revenues from sales of materials and services	9,020	9,442	10,019	95.8	90.3
4.	Revenues from financing	6,136	3,512	6,498	174.7	94.4
5.	Other revenues	20,042	11,607	15,239	172.7	131.5
	TOTAL (1 through 5)	1,062,389	1,048,726	1,060,676	101.3	100.2

6.	Materijal za proizvodnju električne energije	296,237	343,322	348,046	86.3	85.1
7.	Materijal za održavanje	10,666	12,784	10,584	83.4	100.8
8.	Ostali troškovi materijala (el. energija, kancel. mat. HTZ, gorivo, mazivo)	5,574	6,483	5,301	86.0	105.2
9.	Troškovi prijevoza uglja	22,687	27,304	27,144	83.1	83.6
10.	Usluge održavanja	16,448	18,034	14,795	91.2	111.2
11.	Troškovi nabavke električne energije i pomoćnih usluga	176,372	97,165	107,253	181.5	164.4
12.	Premije osiguranja	2,120	2,405	2,171	88.1	97.6
13.	Drugi troškovi usluga	10,414	12,306	9,691	84.6	107.5
14.	Troškovi amortizacije	148,030	157,998	150,258	93.7	98.5
15.	Troškovi mrežarina i naknada za NOS	50,858	50,347	49,812	101.0	94.9
16.	Plate i naknade plata	154,577	154,910	151,717	99.8	101.9
17.	Drugi troškovi rada	23,969	22,519	21,156	106.4	113.3
18.	Vodoprivredne naknade	26,393	26,427	28,055	99.9	94.1
19.	Razne dažbine, naknade i članarine	18,170	22,134	22,438	82.1	81.0
20.	Drugi troškovi poslovanja	7,140	9,171	7,154	77.8	99.8
21.	Finansijski troškovi i rashodi	4,880	5,977	5,644	81.6	86.5
22.	Drugi rashodi (otpis potraživa., gubici od umanjan. vrijed. troš. iz ranij. god.)	48,705	7,747	18,885	628.7	257.9
23.	Troškovi rezervisanja	14,810	5,761	19,150	257.1	77.3
UKUPNI TROŠKOVI I RASHODI (6 do 23)		1,038,050	982,794	999,253	105.6	103.9
DOBIT PRIJE POREZA		24,339	65,932	61,423	36.9	39.6
NETO DOBIT PERIODA		20,124		52,383		

* uključujući distributivnu mrežarinu krajnjih kupaca drugih snabdjevača i vlastitu potrošnju koja se preuzima sa 10kV i 0,4kV.

6.	Materials for electricity production	296,237	343,322	348,046	86.3	85.1
7.	Materials for maintenance	10,666	12,784	10,584	83.4	100.8
8.	Other costs of materials (electricity, office supplies, PPK, fuel, grease)	5,574	6,483	5,301	86.0	105.2
9.	Coal transport costs	22,687	27,304	27,144	83.1	83.6
10.	Maintenance services	16,448	18,034	14,795	91.2	111.2
11.	Electricity procurements and auxiliary services costs	176,372	97,165	107,253	181.5	164.4
12.	Insurance premiums	2,120	2,405	2,171	88.1	97.6
13.	Other services costs	10,414	12,306	9,691	84.6	107.5
14.	Amortisation costs	148,030	157,998	150,258	93.7	98.5
15.	Network fee costs and IOS fee	50,858	50,347	49,812	101.0	94.9
16.	Salaries and remunerations	154,577	154,910	151,717	99.8	101.9
17.	Other labour costs	23,969	22,519	21,156	106.4	113.3
18.	Water utility fees	26,393	26,427	28,055	99.9	94.1
19.	Charges, fees and membership fees	18,170	22,134	22,438	82.1	81.0
20.	Other business operation costs	7,140	9,171	7,154	77.8	99.8
21.	Financial costs and expenditures	4,880	5,977	5,644	81.6	86.5
22.	Other expenditures (receivables write-off, losses from costs value depreciation from previous years)	48,705	7,747	18,885	628.7	257.9
23.	Provision costs	14,810	5,761	19,150	257.1	77.3
TOTAL COSTS AND EXPENDITURES (6 through 23)		1,038,050	982,794	999,253	105.6	103.9
PROFIT BEFORE TAX		24,339	65,932	61,423	36.9	39.6
NET PROFIT OF THE PERIOD		20,124		52,383		

* including the distribution network of end-customers of other suppliers and own consumption which is taken over from 10kV and 0.4kV.



Prihodi

U 2019. godini EPBiH je nastavila sa pozitivnim, likvidnim i stabilnim poslovanjem, uz redovno izmirivanje obaveza prema dobavljačima, državnim organima i institucijama, zaposlenicima i kreditorima.

Ukupno ostvareni prihod EPBiH za 2019. godinu iznosi 1.062,39 mil. KM i veći je od planiranog za 13,66 mil. KM ili 1,3%, a za 0,2% veći od ostvarenog prihoda u 2018. godini.

Prihod od prodaje električne energije i pomoćnih usluga

U strukturi ukupnog ostvarenog prihoda najveći dio čini prihod od prodaje električne energije i pomoćnih usluga u iznosu 995,06 mil. KM ili 93,7% ukupnih prihoda Društva za 2019. godinu.

Ovi prihodi odnose se na prihod od:

- prodaje krajnjim kupcima EPBiH u iznosu 719,70 mil. KM,
- prodaje drugim kupcima u BiH u iznosu 217,43 mil. KM,
- izvoza električne energije u iznosu 21,15 mil. KM,
- prodaje po osnovu ugovora o poslovno-tehničkoj saradnji (UPTS) u iznosu 17,74 mil. KM,
- pomoćnih usluga u iznosu 13,18 mil. KM (energija i kapaciteti),
- prodaje energije iz obnovljivih izvora u iznosu 5,86 mil. KM.

Iznosi, učešća i pokazatelji posmatrano po distributivnim podružnicama, a u vezi sa ostvarenjem prihoda od krajnjih kupaca na distributivnoj mreži (podaci ne uključuju prihod od neovlaštene potrošnje kao ni prihod po osnovu mrežarine kupcima drugih snabdjevača):

Podružnica / Pokazatelji	ED Bihać	ED Mostar	ED Sarajevo	ED Tuzla	ED Zenica	Ukupno
Iznos prihoda (mil. KM)	72,22	36,28	211,83	179,86	160,11	660,31
Učešće prihod distr. kupci (%)	10,9	5,5	32,1	27,2	24,3	100,0
Prodana količina (GWh)	457,8	232,1	1.376,1	1.210,1	1.036,5	4.312,5
Prosječna cijena (F/kWh)	15,78	15,63	15,39	14,86	15,45	15,31

Revenues

In 2019, EPBiH continued with positive, liquid and stable business operations, with regular settlement of obligations toward suppliers, state authorities and institutions, employees and creditors.

Total realized revenue of EPBiH in 2019 amounts to 1,062.39 million BAM, which is by 13.66 million BAM or 1.3% more than planned, and by 0.2% more than revenue realized in 2018.

Revenue from sales of electricity and auxiliary services

In the structure of total realized revenue, the biggest portion pertains to income from sales of electricity and auxiliary services in the amount of 995.06 million BAM or 93.7% of total revenues of the Company for 2019.

These revenues pertain to revenue from:

- sales to EPBiH end-customers in the amount of 719.70 million BAM,
- sales to other customers in BiH in the amount of 217.43 million BAM,
- export of electricity in the amount of 21.15 million BAM,
- sales on the basis of contracts on business and technical cooperation (CBTS) in the amount of 17.74 million BAM,
- auxiliary services in the amount of 13.18 million BAM (energy and capacities),
- sales of energy from renewable sources in the amount of 5.86 million BAM.

Amounts, participations and indicators observed by distribution branches, in connection with the realization of income from end customers in the distribution network (data do not include revenue from unauthorized consumption as well as revenue from network charges to customers of other suppliers):

Subsidiary / Indicators	ED Bihać	ED Mostar	ED Sarajevo	ED Tuzla	ED Zenica	Total
Revenue amount (mil. BAM)	72,22	36,28	211,83	179,86	160,11	660,31
Share income from distribution to customers (%)	10,9	5,5	32,1	27,2	24,3	100,0
Quantity sold (GWh)	457,8	232,1	1.376,1	1.210,1	1.036,5	4.312,5
Average price (F/kWh)	15,78	15,63	15,39	14,86	15,45	15,31

Pregled strukture prodaje krajnjim kupcima razložen na energiju i mrežarinu (prihod i prosječna cijena uključuju i dio koji se odnosi na tarifni element Mjerno mjesto)

STRUKTURA PRODAJE	Ostv. 2019.			Ostv. 2018.			Ostv. 2017.			Ostv. 2016.			Ostv. 2015.		
	Energija	Cijena	Prihod	Energija	Cijena	Prihod	Energija	Cijena	Prihod	Energija	Cijena	Prihod	Energija	Cijena	Prihod
ENERGIJA	GWh	F/kWh	mil.KM	GWh	F/kWh	mil.KM	GWh	F/kWh	mil. KM	GWh	F/kWh	mil. KM	GWh	F/kWh	mil. KM
<i>Krajnji kupci</i>															
- kupci na 110 kV	493,3	10,14	50,0	464,3	9,49	44,1	485,3	8,20	39,8	458,0	8,62	39,5	449,6	9,05	40,7
- kupci na 35 kV	296,6	9,83	29,1	303,9	9,61	29,2	286,7	8,71	25,0	274,8	8,77	24,1	274,5	8,86	24,3
- kupci na 10 kV	887,1	10,90	96,7	860,0	10,49	90,2	830,1	9,61	79,7	790,4	10,65	84,2	827,4	11,29	93,4
- domaćinstva	2.143,1	7,44	159,5	2.110,7	7,46	157,5	2.141,8	7,44	159,4	2.132,4	7,44	158,7	2.121,2	7,40	156,9
- ostali 0,4 kV	904,5	11,03	99,7	893,7	10,58	94,6	885,0	10,50	93,0	856,2	10,88	93,1	829,5	11,07	91,8
- javna rasvjeta	83,2	10,11	8,4	81,9	9,08	7,4	81,2	7,46	6,1	80,4	7,44	6,0	77,4	8,62	6,7
Ukupno krajnji kupci (SNB)	4.807,6	9,22	443,5	4.714,4	8,97	422,9	4.710,1	8,56	403,0	4.592,3	8,83	405,6	4.579,5	9,04	413,8

Overview of the structure of sales to end customers broken down into energy and network charges (revenue and average price include the part related to the tariff element Measuring point)

STRUCTURE OF SALES	2019 Real.			2018 Real.			2017 Real.			2016 Real.			2015 Real.		
	Energy	Price	Revenue	Energy	Price	Revenue	Energy	Price	Revenue	Energy	Price	Revenue	Energy	Price	Revenue
ENERGY	GWh	F/kWh	mill. BAM	GWh	F/kWh	mill. BAM	GWh	F/kWh	mill. BAM	GWh	F/kWh	mill. BAM	GWh	F/kWh	mill. BAM
<i>End customers</i>															
- customers at 110 kV	493,3	10,14	50,0	464,3	9,49	44,1	485,3	8,20	39,8	458,0	8,62	39,5	449,6	9,05	40,7
- customers at 35 kV	296,6	9,83	29,1	303,9	9,61	29,2	286,7	8,71	25,0	274,8	8,77	24,1	274,5	8,86	24,3
- customers at 10 kV	887,1	10,90	96,7	860,0	10,49	90,2	830,1	9,61	79,7	790,4	10,65	84,2	827,4	11,29	93,4
- households	2.143,1	7,44	159,5	2.110,7	7,46	157,5	2.141,8	7,44	159,4	2.132,4	7,44	158,7	2.121,2	7,40	156,9
- others at 0.4 kV	904,5	11,03	99,7	893,7	10,58	94,6	885,0	10,50	93,0	856,2	10,88	93,1	829,5	11,07	91,8
- public lighting	83,2	10,11	8,4	81,9	9,08	7,4	81,2	7,46	6,1	80,4	7,44	6,0	77,4	8,62	6,7
Total end customers (SNB)	4.807,6	9,22	443,5	4.714,4	8,97	422,9	4.710,1	8,56	403,0	4.592,3	8,83	405,6	4.579,5	9,04	413,8

STRUKTURA PRODAJE	Ostv. 2019.			Ostv. 2018.			Ostv. 2017.			Ostv. 2016.			Ostv. 2015.		
	Energija	Cijena	Prihod	Energija	Cijena	Prihod	Energija	Cijena	Prihod	Energija	Cijena	Prihod	Energija	Cijena	Prihod
MREŽARINA	GWh	F/kWh	mil.KM	GWh	F/kWh	mil.KM	GWh	F/kWh	mil. KM	GWh	F/kWh	mil. KM	GWh	F/kWh	mil. KM
<i>Krajnji kupci</i>															
- kupci na 110 kV	493,3	1,43	7,1	464,3	1,34	6,2	485,3	1,35	6,6	458,0	1,38	6,3	449,6	1,49	6,7
- kupci na 35 kV	296,6	2,32	6,9	303,9	2,28	6,9	286,7	2,34	6,7	274,8	2,32	6,4	274,5	2,41	6,6
- kupci na 10 kV	887,1	3,42	30,3	860,0	3,37	29,0	830,1	3,36	27,9	790,4	3,39	26,8	827,4	3,39	28,0
- domaćinstva	2.143,1	7,12	152,5	2.110,7	7,13	150,5	2.141,8	7,13	152,6	2.132,4	7,13	152,0	2.121,2	7,13	151,2
- ostali 0,4 kV	904,5	7,84	70,9	893,7	7,85	70,1	885,0	7,91	70,0	856,2	7,94	68,0	829,5	7,95	66,0
- javna rasvjeta	83,2	7,84	6,5	81,9	7,84	6,4	81,2	7,84	6,4	80,4	7,83	6,3	77,4	7,82	6,1
Ukupno krajnji kupci (SNB)	4.807,6	5,70	274,2	4.714,4	5,71	269,2	4.710,1	5,74	270,1	4.592,3	5,79	265,8	4.579,5	5,78	264,6

STRUCTURE OF SALES	2019 Real.			2018 Real.			2017 Real.			2016 Real.			2015 Real.		
	Energy	Price	Revenue	Energy	Price	Revenue	Energy	Price	Revenue	Energy	Price	Revenue	Energy	Price	Revenue
NETWORK FEE	GWh	F/kWh	mill. BAM	GWh	F/kWh	mill. BAM	GWh	F/kWh	mill. BAM	GWh	F/kWh	mill. BAM	GWh	F/kWh	mill. BAM
<i>End customers</i>															
- customers at 110 kV	493,3	1,43	7,1	464,3	1,34	6,2	485,3	1,35	6,6	458,0	1,38	6,3	449,6	1,49	6,7
- customers at 35 kV	296,6	2,32	6,9	303,9	2,28	6,9	286,7	2,34	6,7	274,8	2,32	6,4	274,5	2,41	6,6
- customers at 10 kV	887,1	3,42	30,3	860,0	3,37	29,0	830,1	3,36	27,9	790,4	3,39	26,8	827,4	3,39	28,0
- households	2.143,1	7,12	152,5	2.110,7	7,13	150,5	2.141,8	7,13	152,6	2.132,4	7,13	152,0	2.121,2	7,13	151,2
- others at 0.4 kV	904,5	7,84	70,9	893,7	7,85	70,1	885,0	7,91	70,0	856,2	7,94	68,0	829,5	7,95	66,0
- public lighting	83,2	7,84	6,5	81,9	7,84	6,4	81,2	7,84	6,4	80,4	7,83	6,3	77,4	7,82	6,1
Total end customers (SNB)	4.807,6	5,70	274,2	4.714,4	5,71	269,2	4.710,1	5,74	270,1	4.592,3	5,79	265,8	4.579,5	5,78	264,6

Prihod od prodaje električne energije na tržištu

Prihod od prodaje električne energije na tržištu, realiziran kroz djelatnost Trgovine, ostvaren je u zbirnom iznosu 256,32 mil. KM i manji je od planiranog za 8,38 mil. KM ili za 3,3%. Pri tome je ostvarena količina prodaje bila za 8,4% manja od planirane pretežno zbog manje proizvodnje u TE.

Posmatrano po državi kupca, ostvareni prihod u iznosu 235,17 mil. KM odnosi se na kupce iz BiH (uključujući prihod od prodaje energije po osnovu UPTS-a), dok se preostalih 21,15 mil. KM odnosi na izvoznu prodaju električne energije kupcima sa sjedištem izvan BiH.

Ako se energija prodana kroz djelatnost Trgovine posmatra po vrsti prodaje, onda je struktura ostvarenog prihoda sljedeća:

- prihod od dugoročne prodaje 114,57 mil. KM,
- prihod od kratkoročne prodaje vlastite energije 18,59 mil. KM,
- prihod po osnovu UPTS-a 17,74 mil. KM (uključujući i mrežarinu u iznosu 2,73 mil. KM),
- prihod po osnovu kupoprodaje (također kratkoročnog karaktera) 105,42 mil. KM.

Prosječna prodajna cijena po osnovu dugoročne prodaje iznosi 10,75 F/kWh i manja je u odnosu na planiranu (10,81 F/kWh) za 0,5%, dok je za 22,7% viša u odnosu na prosječnu cijenu dugoročne prodaje u 2018. godini.

Prosječna prodajna cijena po osnovu kratkoročne prodaje vlastite proizvedene energije iznosi 10,95 F/kWh i viša je, kako u odnosu na planiranu (9,88 F/kWh), tako i u odnosu na prosječnu cijenu kratkoročne prodaje postignutu u 2018. godini (9,91 F/kWh). Ostvareni prihod je daleko manji u odnosu na Plan i realizaciju u 2018. godini, zbog velikog odstupanja (na niže) u količini prodane električne energije.

Po osnovu ugovora o poslovno-tehničkoj saradnji (UPTS) ostvaren je nešto manji obim prodaje u odnosu na planirani, ali veći u odnosu na 2018. godinu.

Prihod po osnovu kupoprodaje energije je ostvaren u iznosu 105,42 mil. KM za prodaju 937,6 GWh kupljene energije. Prihodi, troškovi i pozitivni efekti po osnovu kupoprodaje električne energije su bili značajno veći od planiranih, gdje je ostvarena prosječna prodajna cijena za 19,7% veća od prosječne nabavne cijene, te je ostvaren pozitivan efekat više od 17,3 mil. KM. I obim kupoprodaje, izraženo u energiji, bio je za 158,4% veći nego u 2018. godini, te je i ostvareni pozitivni efekat same kupoprodaje bio mnogo veći u odnosu na efekat od prethodne godine (6,5 mil. KM).

Income from electricity market sales

Income from the sale of electricity in the market, realized through the Trade activity, was realized in a total amount of 256.32 million BAM, which is by 8.38 million BAM or 3.3% lower than planned. At the same time, the realized sales volume was 8.4% lower than planned, mainly due to lower production in TPPs.

Observed by the country of the customer, the realized income in the amount of 235.17 million BAM pertains to customers from BiH (including income from energy sales based on UPTS), while the remaining 21.15 million BAM pertains to export sales of electricity to customers located outside BiH.

If the energy sold through the Trade activity is observed by the type of sales, then the structure of the realized income is as follows:

- *income from long-term sales 114.57 million BAM,*
- *income from short-term sales of own energy 18.59 million BAM,*
- *income from UPTS 17.74 million BAM (including network fees in the amount of 2.73 million BAM),*
- *income from buying and selling (also of short-term nature) 105.42 million BAM.*

The average selling price based on long-term sales is 10.75 F/kWh and is lower than planned (10.81 F/kWh) by 0.5%, while it is 22.7% higher than the average long-term selling price in 2018.

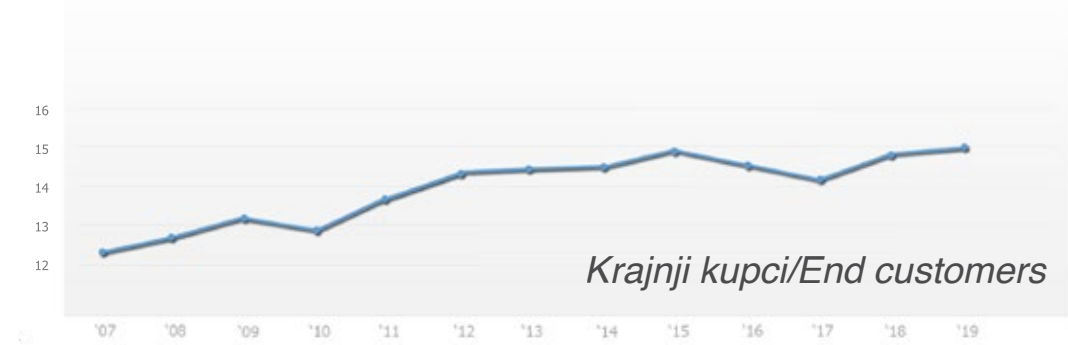
The average selling price based on short-term sales of own produced energy is 10.95 F/kWh and is higher, both compared to the planned (9.88 F/kWh) and compared to the average short-term selling price achieved in 2018 (9.91 F/kWh). The realized income is far lower in relation to the Plan and realization in 2018, due to the large deviation (downward) in the amount of sold electricity.

Based on the business-technical cooperation agreement (UPTS), the sales volume was slightly lower than planned, but higher compared to 2018.

Revenue from the purchase and sale of energy was realized in the amount of 105.42 million BAM for the sale of 937.6 GWh of purchased energy. Income, costs and positive effects based on the purchase and sale of electricity were significantly higher than planned, where the average selling price was 19.7% higher than the average purchase price, and a positive effect was achieved of more than 17.3 million BAM. The volume of sales, expressed in energy, was 158.4% higher than in 2018, and the achieved positive effect of the sale itself was much higher compared to the effect of the previous year (6.5 million BAM).



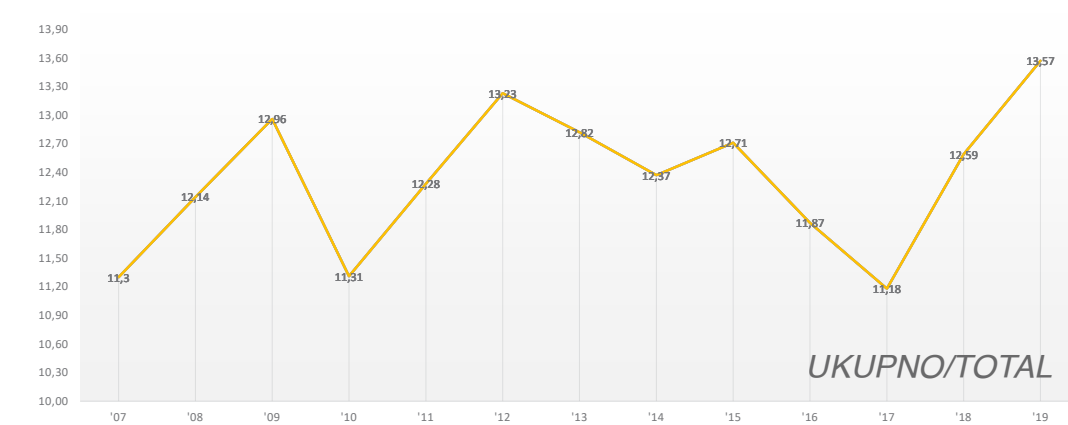
Trend- Prosječne cijene (F/kWh)/ Trend - Average prices (F/kWh)



Trend- Prosječne cijene (F/kWh)/ Trend - Average prices (F/kWh)



Trend- Prosječne cijene (F/kWh)/ Trend - Average prices (F/kWh)



Struktura prodaje električne energije (uključena je prodaja kroz djelatnosti Snabdijevanja i Trgovine)

STRUKTURA PRODAJE	Ostv. 2019.				Plan 2019.				Ostv. 2018.			
	Energija	Cijena	Prihod	Udio	Energija	Cijena	Prihod	Udio	Energija	Cijena	Prihod	Udio
vrsta prodaje	GWh	F/kWh	mil.KM	%	GWh	F/kWh	mil. KM	%	GWh	F/kWh	mil. KM	%
Krajnji kupci												
- kupci na 110 kV	493,3	11,57	57,1	6%	473,7	11,48	54,4	6%	464,3	10,83	50,3	5%
- kupci na 35 kV	296,6	12,15	36,0	4%	303,5	12,00	36,4	4%	303,9	11,89	36,1	4%
- kupci na 10 kV	887,1	14,31	127,0	13%	869,9	14,12	122,8	13%	860,0	13,85	119,2	12%
- domaćinstva	2.143,1	14,56	312,0	32%	2.123,4	14,61	310,3	32%	2.110,7	14,59	308,0	31%
- ostali 0,4 kV	904,5	18,87	170,7	17%	878,2	19,12	167,9	17%	893,7	18,43	164,7	17%
- javna rasvjeta	83,2	17,95	14,9	2%	80,3	17,93	14,4	1%	81,9	16,92	13,9	1%
Ukupno krajnji kupci (SNB)	4.807,6	14,93	717,7	73%	4.729,0	14,93	706,3	73%	4.714,4	14,68	692,1	70%
Tržišna prodaja												
Dugoročna prodaja	1.065,5	10,75	114,6	12%	1.302,4	10,81	140,7	14%	1.440,2	8,77	126,2	13%
Kratkoročna prodaja	169,8	10,95	18,6	2%	843,7	9,88	83,3	9%	832,5	9,91	82,5	8%
Prodaja po osnovu UPTS	163,7	9,17	15,0	2%	164,5	9,17	15,1	2%	161,2	9,17	14,8	2%
Kupoprodaja	937,6	11,24	105,4	11%	240,0	9,60	23,0	2%	362,9	10,59	38,4	4%
Prodaja u vezi sa pom. uslugama	42,0	9,55	4,0	0%	55,8	7,31	4,1	0%	290,4	9,79	28,4	3%
Prodaja operateru za OIEIK	53,9	10,88	5,9	1%								
Ukupno tržišna prodaja (TRG)	2.432,4	10,83	263,5	27%	2.606,4	10,22	266,3	27%	3.087,1	9,41	290,4	30%
Ukupno prodaja električne energije*	7.240,0	13,55	981,1	100%	7.335,4	13,26	972,5	100%	7.801,5	12,59	982,5	100%

* nisu obuhvaćeni prihodi po osnovu neovlaštene potrošnje, te prihodi od distributivne mrežarine za kupce drugih snabdjevača

Structure of electricity sales (sales through Supply and Trade business are included)

SALES STRUCTURE	2019 Real.				2019 Plan				2018 Real.			
	Energy	Price	Revenue	Share	Energy	Price	Revenue	Share	Energy	Price	Revenue	Share
Sales type	GWh	F/kWh	Mil. BAM	%	GWh	F/kWh	Mil. BAM	%	GWh	F/kWh	Mil. BAM	%
End-customers												
- customers at 110 kV	493,3	11,57	57,1	6%	473,7	11,48	54,4	6%	464,3	10,83	50,3	5%
- customers at 35 kV	296,6	12,15	36,0	4%	303,5	12,00	36,4	4%	303,9	11,89	36,1	4%
- customers at 10 kV	887,1	14,31	127,0	13%	869,9	14,12	122,8	13%	860,0	13,85	119,2	12%
- households	2.143,1	14,56	312,0	32%	2.123,4	14,61	310,3	32%	2.110,7	14,59	308,0	31%
- others at 0.4 kV	904,5	18,87	170,7	17%	878,2	19,12	167,9	17%	893,7	18,43	164,7	17%
- public lighting	83,2	17,95	14,9	2%	80,3	17,93	14,4	1%	81,9	16,92	13,9	1%
Total end-customers (SNB)	4.807,6	14,93	717,7	73%	4.729,0	14,93	706,3	73%	4.714,4	14,68	692,1	70%
Market sales												
Long-term sales	1.065,5	10,75	114,6	12%	1.302,4	10,81	140,7	14%	1.440,2	8,77	126,2	13%
Short-term sales	169,8	10,95	18,6	2%	843,7	9,88	83,3	9%	832,5	9,91	82,5	8%
CBTC sales	163,7	9,17	15,0	2%	164,5	9,17	15,1	2%	161,2	9,17	14,8	2%
Buying and selling	937,6	11,24	105,4	11%	240,0	9,60	23,0	2%	362,9	10,59	38,4	4%
Sales related to aux. services	42,0	9,55	4,0	0%	55,8	7,31	4,1	0%	290,4	9,79	28,4	3%
Sales to RES&C operator	53,9	10,88	5,9	1%								
Total market sales (TRG)	2.432,4	10,83	263,5	27%	2.606,4	10,22	266,3	27%	3.087,1	9,41	290,4	30%
Total sales of electricity*	7.240,0	13,55	981,1	100%	7.335,4	13,26	972,5	100%	7.801,5	12,59	982,5	100%

* Revenues from unauthorized consumption, and revenues from distribution network fees for customers of other suppliers are excluded.

Troškovi i rashodi

Ukupno ostvareni troškovi i rashodi za 2019. godinu iznose 1.038,05 mil. KM, što je više od planiranih za 55,26 mil. KM ili 5,6%, prvenstveno zbog većih drugih rashoda i troškova nabavke električne energije. U odnosu na 2018. godinu, troškovi i rashodi su veći za 38,80 mil. KM ili 3,9%.

Troškovi materijala za proizvodnju i prijevoza uglja

Troškovi materijala za proizvodnju električne energije iznose 296,24 mil. KM, dok troškovi prijevoza uglja iznose 22,69 mil. KM i oni zajedno čine 30,7% ukupnih troškova i rashoda.

Troškovi amortizacije

Troškovi amortizacije iznose 148,03 mil. KM, što čini 14,3% ukupnih troškova i rashoda Društva za 2019. godinu. Ostvareni troškovi amortizacije su manji od planiranih za 9,97 mil. KM ili 6,3%, jer su planirana veća ulaganja i kolaudacije pred kraj 2018. i tokom 2019. godine, pa se očekivalo da efekti tih kolaudacija na trošak amortizacije budu značajno veći. Najveći trošak amortizacije odnosi se na amortizaciju građevinskih objekata u iznosu 68,85 mil. KM i amortizaciju postrojenja i opreme u iznosu 61,31 mil. KM.

Troškovi mrežarina i naknada za NOS

Ovi troškovi su ostvareni u iznosu 50,86. KM i odnose se na:

- troškove prijenosa električne energije (43,31 mil. KM), gdje se 38,66 mil. KM odnosi na isporuke krajnjim kupcima na distributivnoj mreži, a 4,65 mil. KM na isporuke kupcima na mreži prijenosa,
- troškove naknada za rad NOS-a BiH u iznosu 2,62 mil. KM,
- troškove korištenja mreže za krajnje kupce u iznosu 4,66 mil. KM gdje se evidentiraju troškovi mrežarine kod kupovine energije od drugih elektroprivreda u BiH po osnovu isporuka na SN mreži iz UPTS-a.

Costs and expenses

Total realized costs and expenses for 2019 amount to 1,038.05 million BAM, which is by 55.26 million BAM or 5.6% higher than planned, primarily due to higher other expenses and costs of electricity supply. Compared to 2018, cost and expenditures are by 38.80 million BAM or 3.9% higher.

Costs of materials for production and transport of coal

Costs of materials for electricity production amount to 296.24 million BAM, while costs of coal transport amount to 22.69 million BAM and they together make up 30.7% of total costs and expenses.

Amortisation costs

Amortisation costs amount to 148.03 million BAM, which is 14.3% of total costs and expenditures of the Company for 2019. Realized amortisation costs are by 9.97 million BAM or 6.3% lower than planned, because larger investments and commissioning are planned before the end of 2018 and during 2019, so it was expected that the effects of these commissionings on the amortisation cost will be significantly higher. The highest amortisation cost relates to amortization of buildings in the amount of 68.85 million BAM and amortization of plants and equipment in the amount of 61.31 million BAM.

Network fee costs and IOS fee

These costs were realized in the amount of 50.86 BAM and relate to:

- electricity transmission costs (43.31 million BAM), where 38.66 million BAM refers to deliveries to end customers on the distribution network, and 4.65 million BAM to supply to customers in the transmission network,
- costs of IOS BiH fees in the amount of 2.62 million BAM,
- costs of using the network for end customers in the amount of 4.66 million BAM, where the costs of network charges for the purchase of energy from other power companies in BiH based on deliveries on the MV network from UPTS are recorded.

Troškovi dažbina

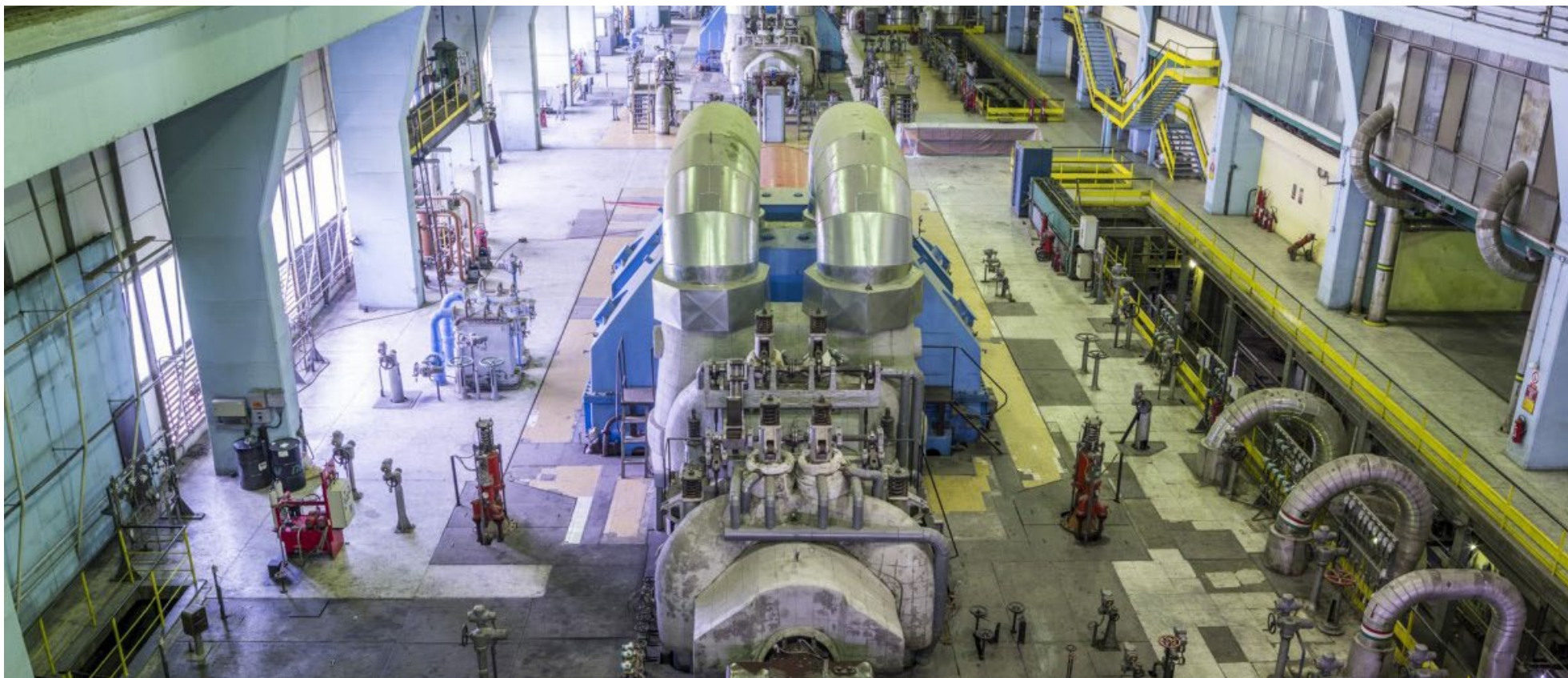
Vodoprivredne naknade u iznosu 26,39 mil. KM odnose se na troškove vodnog doprinosa, naknade za zaštitu voda, doprinosa za korištenje hidroakumulacionih objekata, te troškove kantonalne naknade od posebnog značaja za HNK. Ovi troškovi su ostvareni u nivou planiranih, gdje je ostvarena proizvodnja hidroelektrana bila veća za 0,9% od planirane proizvodnje.

Razne dažbine, naknade i članarine obuhvataju troškove raznih naknada (naknade za korištenje građevinskog zemljišta i komunalne naknade, članarine privrednim komorama, naknada za zagađenje zraka, naknade za NOS, FERK, RAK i dr.), gdje su troškovi ostvareni u iznosu 18,17 mil. KM, pri čemu su manji od planiranih troškova za 3,96 mil. KM ili 17,9%. Značajnije odstupanje imaju troškovi u vezi sa naknadom, za zagađenje zraka (4,58 mil. KM), kao i naknadom po Zakonu o izdvajanju i usmjeravanju dijela prihoda ostvarenih radom termoelektrana (7,17 mil. KM) koje su ostvarene ispod planiranih jer je i proizvodnja termoelektrana ostvarena sa procentom 82,9% planirane proizvodnje.

Costs of utilities

Water utility fees in the amount of 26.39 million BAM relate to costs of water contribution, water protection fee, contribution for usage of hydro accumulation facilities, and costs of Cantonal fee of special importance for Herzegovina-Neretva Canton. These costs were realized at the planned level, where the realized production of hydro power plants was higher by 0.9% than the planned production.

Various charges, fees and membership fees include the costs of various charges (fees for the usage of construction land and utility fees, fees for membership in chambers of commerce, fees for air pollution, fees for IOS, FERK, RAK, etc.), where the costs were realized in the amount of 18.17 million BAM, while they are by 3.96 million BAM or 17.9% lower than the planned costs. There are significant deviations in costs related to the fee for air pollution (4.58 million BAM), as well as the fee under the Law on the allocation and direction of part of the income generated by the operation of thermal power plants (7.17 million BAM) which were realized below the planned because the production of thermal power plants was realized with a percentage of 82.9% of the planned production.



POKAZATELJI BILANSA USPJEHA	Ostvarenje 2019.	Plan 2019.	Ostvarenje 2018.
Proizvodnja električne energije (GWh)	6,033.8	6,991.7	7,245.4
Operativni prihod (hilj. KM)	1,036,324.2	1,033,706.5	1,039,078.8
Prihod od prodaje električne energije i pomoćnih usluga	995,057.9	990,592.9	997,217.5
Prihod od prodaje sporednih proizvoda, materijala i usluga	41,266.3	43,113.6	41,861.3
Gotovinski operativni troškovi (hilj. KM)	836,503.2	812,111.1	824,744.9
- troškovi mat. za proiz. el. energije i prijevoz uglja	318,924.0	370,625.8	375,189.7
- materijal i usluge održavanja	27,114.1	30,818.3	25,378.6
- plate i drugi troškovi rada	178,545.7	177,429.1	172,873.5
- zavisni troškovi prodaje *	227,229.8	147,511.9	157,065.5
- troškovi dažbina	44,563.7	48,561.2	50,492.7
- ostali operativni troškovi	40,126.0	37,164.8	43,745.0
EBITDA (hilj. KM)	199,821.1	221,595.5	214,333.9
Prihod od donacija (amort. doniranih sredstava)	6,732.2	7,219.7	6,969.5
Amortizacija (hilj. KM)	148,029.5	157,997.7	150,257.6
EBIT (hilj. KM)	58,523.7	70,817.4	71,045.7
Operativni koeficijent (op. trošk. + amort.)/op. prihod	0.944	0.932	0.932
Racio ekonomičnosti (ukupni prihodi /ukupni troš. i ras.)	1.023	1.067	1.061
Radni koeficijent (operativni troškovi /operativni prihod)	0.807	0.786	0.794
Troškovi zaposlenih po radniku	40.12	39.78	38.93
Proizvodnja po radniku	1.36	1.57	1.63
Učešće troškova i rashoda u ukupnom prihodu	97.71	93.71	94.21
Prosječan broj zaposlenih (stanje kraj mjeseca / 12)	4,450	4,460	4,441
Trošak proizvodnje/operativni prihod	30.8%	35.9%	36.1%
Trošak mat. i usluga održavanja/operativni prihod	2.6%	3.0%	2.4%
Trošak rada/operativni prihod	17.2%	17.2%	16.6%
Zavisni troškovi prodaje/operativni prihod	21.9%	14.3%	15.1%
Troškovi dažbina/operativni prihod	4.3%	4.7%	4.9%
Ostali troškovi/operativni prihod	3.9%	3.6%	4.2%

* Zavisni troškovi nabavke obuhvataju troškove nabavke električne energije, troškove prijenosa električne energije, troškove pomoćnih usluga (sistemska i ostale usluge) i naknade za NOS.

INCOME STATEMENT FINANCIAL INDICATORS	2019 Realization	2019 Plan	2018 Realization
Electricity generation (GWh)	6,033.8	6,991.7	7,245.4
Operating revenues (thousands of BAM)	1,036,324.2	1,033,706.5	1,039,078.8
Revenues from sales of electricity and auxiliary services	995,057.9	990,592.9	997,217.5
Revenues from sales of by-products, materials and services	41,266.3	43,113.6	41,861.3
Cash operating costs (thousands of BAM)	836,503.2	812,111.1	824,744.9
- costs of materials for electricity generation and coal transport	318,924.0	370,625.8	375,189.7
- maintenance materials and services	27,114.1	30,818.3	25,378.6
- salaries and other operative costs	178,545.7	177,429.1	172,873.5
- dependent sales costs *	227,229.8	147,511.9	157,065.5
- charges	44,563.7	48,561.2	50,492.7
- other operating costs	40,126.0	37,164.8	43,745.0
EBITDA (thousands of BAM)	199,821.1	221,595.5	214,333.9
Revenues from donations (amortisation of donated funds)	6,732.2	7,219.7	6,969.5
Amortization (thousands of BAM)	148,029.5	157,997.7	150,257.6
EBIT (thousands of BAM)	58,523.7	70,817.4	71,045.7
Operating coefficient (operating costs + amortisation) / operating revenues	0.944	0.932	0.932
Cost effectiveness ratio (total revenues/total costs and expenditures)	1.023	1.067	1.061
Operating coefficient (operating costs/operating revenues)	0.807	0.786	0.794
Costs of employees per employee	40.12	39.78	38.93
Generation per employee	1.36	1.57	1.63
Share of costs and expenditures in total revenues	97.71	93.71	94.21
Average number of employees (balance of end-month/12)	4,450	4,460	4,441
Generation costs/operating revenues	30.8%	35.9%	36.1%
Costs of maintenance materials and services/operating revenues	2.6%	3.0%	2.4%
Operative costs/operating revenues	17.2%	17.2%	16.6%
Dependent sales costs/operating revenues	21.9%	14.3%	15.1%
Charges/operating revenues	4.3%	4.7%	4.9%
Other costs/operating revenues	3.9%	3.6%	4.2%

* Dependent costs of procurement include costs of electricity procurement, costs of electricity transmission, costs of auxiliary services (system and other services) and IOS fees.

REALIZACIJA PLANA ULAGANJA

Investicijska ulaganja EPBiH u 2019. godini iznose 127,1 miliona KM, što je manje za 74,1% u odnosu na plan (ne uključujući ulaganja u dokapitalizaciju zavisnih društava), odnosno više za 118,4% u odnosu na realizaciju ulaganja u 2018. godini.

Glavni razlozi koji su onemogućili realizaciju plana ulaganja su: striktna primjena Zakona o javnim nabavkama – ponavljanje tenderskih postupaka uslijed nedovoljnog broja prijavljenih ponuđača, dugotrajni procesi obezbjeđivanja neophodnih dozvola i saglasnosti za realizaciju projekata i kašnjenje u realizaciji projekata izgradnje Bloka 7 u TE „Tuzla“ i HE „Vranduk“, gdje su bila planirana značajno veća ulaganja.

U zavisna društva rudnike uglja u toku 2019. godine uloženo je 21,9 mil. KM, što je za 61% više nego u 2018. godini.

REALIZACIJA PLANA ULAGANJA PO PODRUŽNICAMA / DJELATNOSTIMA U 2019. (u mil. KM)

Nivo ulaganja	Ostvareno 2018.	Plan za 2019.*	Ostvareno 2019.	Struktura unutar djelatnosti	U odnosu na ukupna ulaganja
Djelatnost Proizvodnje					
TE „Tuzla“	3,9	12,2	10,7	66,8%	8,4%
TE „Kakanj“	2,6	5,2	4,0	24,8%	3,1%
HE na Neretvi	1,8	3,0	0,8	5,1%	0,6%
mHE	0,1	0,9	0,2	1,2%	0,2%
IKT za djel. Proizvodnje	0,3	0,4	0,3	1,9%	0,2%
Ukupno djelatnost Proizvodnje	8,7	21,7	15,9	100,0%	12,6%
Djelatnost Distribucije					
ED Bihać	8,0	12,7	8,5	17,3%	6,7%
ED Mostar	5,0	5,8	5,2	10,6%	4,1%
ED Sarajevo	12,4	18,6	11,2	22,8%	8,8%
ED Tuzla	7,6	17,0	12,0	24,4%	9,4%
ED Zenica	8,7	17,6	11,6	23,6%	9,1%
IKT za djel. Distribucije	0,8	1,9	0,7	1,3%	0,5%
Ukupno djelatnost Distribucije	42,5	73,6	49,1	100,0%	38,6%
Djelatnost Snabd. i trg.					
Sve podružnice	0,02	1,2	0,03	33,2%	0,0%
IKT za djel. Snabd. i trg.	0,2	0,8	0,06	66,8%	0,0%
Ukupno djelatnosti Snabd. i trg.	0,2	2,0	0,09	100,0%	0,1%
Ulaganja sa nivoa Društva					
Ulaganja u kapitalne projekte	6,3	389,3	60,5	97,7%	47,6%
Zajednički projekti	0,01	1,1	0,4	0,6%	0,3%
IKT	0,5	2,7	1,1	1,7%	0,8%
Ukupno sa nivoa Društva	6,8	393,1	61,9	100,0%	48,8%
Ukupno ulaganje EPBiH	58,2	490,4	127,1	-	100,0%

* - prema Revidiranom planu 2019. - 2021. godine, usvojenom 10. 1. 2019. godine

REALIZATION OF THE INVESTMENT PLAN

In EPBiH, total investments in 2019 amount to 127.1 million BAM, which is by 74.1% less than defined in the plan (excluding investments in recapitalization of subsidiary companies), i.e. by 118.4% more in comparison with investments realized in 2018.

The main reasons that prevented the implementation of the investment plan are: strict application of the Law on Public Procurement - repetition of tender procedures due to insufficient number of registered bidders, lengthy processes of obtaining the necessary permits and approvals for project implementation and delays in construction of Unit 7 in TPP "Tuzla" and HPP "Vranduk", where significantly larger investments were planned.

In 2019, 21.9 million BAM was invested in subsidiary companies - coal mines, which is 61% more than in 2018.

REALIZATION OF THE INVESTMENT PLAN PER SUBSIDIARIES / ACTIVITIES IN 2019 (in million BAM)

Investment Level	2018 Realization	Plan for 2019*	2019 Realization	Structure within business	In comparison with total investments
Generation business					
TPP „Tuzla“	3.9	12.2	10.7	66.8%	8.4%
TPP „Kakanj“	2.6	5.2	4.0	24.8%	3.1%
HPPs on the Neretva River	1.8	3.0	0.8	5.1%	0.6%
SHPPs	0.1	0.9	0.2	1.2%	0.2%
ICT for Generation business	0.3	0.4	0.3	1.9%	0.2%
Total Generation business	8.7	21.7	15.9	100.0%	12.6%
Distribution business					
ED Bihać	8.0	12.7	8.5	17.3%	6.7%
ED Mostar	5.0	5.8	5.2	10.6%	4.1%
ED Sarajevo	12.4	18.6	11.2	22.8%	8.8%
ED Tuzla	7.6	17.0	12.0	24.4%	9.4%
ED Zenica	8.7	17.6	11.6	23.6%	9.1%
ICT for Distribution business	0.8	1.9	0.7	1.3%	0.5%
Total Distribution business	42.5	73.6	49.1	100.0%	38.6%
Supply and Trade business					
All Subsidiaries	0.02	1.2	0.03	33.2%	0.0%
ICT for Supply and Trade business	0.2	0.8	0.06	66.8%	0.0%
Total Supply and Trade business	0.2	2.0	0.09	100.0%	0.1%
Investments from the Company level					
Investments in capital projects	6.3	389.3	60.5	97.7%	47.6%
Joint projects	0.01	1.1	0.4	0.6%	0.3%
ICT	0.5	2.7	1.1	1.7%	0.8%
Total from Company Level	6.8	393.1	61.9	100.0%	48.8%
Total investment of EPBiH	58.2	490.4	127.1	-	100.0%

* - according to the Revised Plan 2019 - 2021, adopted on 10 January 2019

Ulaganja u djelatnost Proizvodnje

Planom poslovanja za period 2019. - 2021. godine za djelatnost Proizvodnje predviđeno je ukupno ulaganje 21,7 miliona KM u 2019. godini, a ukupno je realizirano 15,9 miliona KM ili 73,3%.

Najznačajniji realizirani projekti investicionog i tekućeg održavanja u djelatnosti Proizvodnje su:

TE „Tuzla“

- nabavka navalnog vatrogasnog vozila;
- izrada GP brane za odlagalište šljake i pepela Jezero;
- sanacija bazena RT2 i završni radovi na zatvorenom ciklusu i tretmanu otpadnih voda;
- izgradnja odlagališta šljake i pepela Jezero;
- zamjena operatorskih stanica za upravljanje 220, 110 i 35 kV postrojenjima;
- zamjena 0,4 kV postrojenja i razdjelnika RW4A i RW4B na DU III i IV etape;

TE „Kakanj“

- rekonstrukcija kosog mosta transportera u rejonu MZ Čatići u cilju smanjenja buke;
- nastavak nasipanja šljake i pepela na zapadnu kosinu;
- produženje kolektora Slapničkog potoka;
- nabavka i ugradnja el. zaštite na dalekovodnim poljima 123 kV;
- nabavka cirkulacionih pumpi lokalnog grijanja;
- rekonstrukcija vrelovoda za zagrijavanje grada Kakanja;
- nabavka vatrogasne cisterne;

HE na Neretvi:

- zamjena sistema generatorskih zaštita agregata 1, 2 i 3 u pogonu HE „Salakovac“;
- ugovorena obnova porušenog mosta preko Neretve (zaostale obaveze HE „Grabovica“ po urbanističko-tehničkim uslovima) – realizacija planirana u 2020. godini;
- ugovorena nabavka zaštite od zatajenja prekidača u pogonu HE „Jablanica“ realizacija planirana u 2020. godini;
- ugovorena sanacija izolacije na agregatu broj 3 u pogonu HE „Jablanica“ – realizacija planirana u 2020. godini.

Investments in Generation business

The Business Plan for the period 2019-2021 envisages a total investment of 21.7 million BAM in 2019 for the Generation business, and a total of 15.9 million BAM or 73.3% was realized.

The most significant realized investment and current maintenance projects in the Generation activity were:

TPP „Tuzla“

- procurement of a fire engine;
- construction of GP dam for slag and ash dump Jezero;
- rehabilitation of the RT2 basin and final works on the closed cycle and wastewater treatment;
- construction of a slag and ash dump Jezero;
- replacement of operator stations for operating of 220, 110 and 35 kV plants;
- replacement of 0.4 kV plant and RW4A and RW4B distributors on DU III and IV stages;

TPP „Kakanj“

- reconstruction of the slanted conveyor bridge in the area of local community MZ Čatići in order to reduce noise;
- continued dumping of slag and ash on the western slope;
- extension of the Slapnički potok collector;
- procurement and installation of el. protection on 123 kV transmission line bays;
- procurement of local heating circulation pumps;
- reconstruction of the hot water pipeline for heating the town of Kakanj;
- procurement of a fire tank;

HPPs on the Neretva River:

- replacement of the generator protection system of units 1, 2 and 3 in the HPP „Salakovac“ plant;
- contracted reconstruction of the destroyed bridge over the river Neretva (outstanding obligations of HPP „Grabovica“ according to urban and technical conditions) realization planned in 2020;
- contracted procurement of protection against circuit breaker failure in HPP „Jablanica“ - realization planned in 2020;
- contracted repair of insulation on unit number 3 in the plant of HPP „Jablanica“ realization planned in 2020.

Sredstva nisu realizirana u punom obimu iz sljedećih razloga:

- od realizacije određenih planiranih investicionih projekata se odustalo nakon preispitivanja potrebe njihove realizacije, a sve radi obezbjeđivanja dodatnih sredstava za potrebe izgradnje novih proizvodnih objekata;
- realizirana su minimalna ulaganja (koja omogućavaju siguran i pouzdan rad) u pojedine postojeće proizvodne jedinice koje će prema važećim planskim dokumentima (NERP) u narednom periodu raditi smanjeni broj sati;
- određeni projekti su realizirani u planiranom obimu za manji iznos od vrijednosti ulaganja odobrenog investicionim odlukama;
- primjena Zakona o javnim nabavkama - nedovoljan broj ponuđača, te prigovori i žalbe ponuđača.

Ulaganja u djelatnost Distribucije

Planom ulaganja u djelatnost Distribucije za 2019. godinu predviđena su ukupna investiciona ulaganja u iznosu 73,6 miliona KM, od čega se na projekte iz distributivne djelatnosti odnosi 71,7 miliona KM, a za sistemske IKT projekte predviđen je iznos 1,9 miliona KM.

Tokom 2019. godine ostvaren je nivo investicionih ulaganja u projekte djelatnosti Distribucije u iznosu 49,1 miliona KM, što je 66,7% u odnosu na Revidirani plan ulaganja za 2019. godinu i 115,5% u odnosu na realizaciju investicija u 2018. godini.

Uzroci nepotpune realizacije Plana ulaganja su:

- dugotrajna i kompleksna procedura obezbjeđivanja neophodnih dozvola i saglasnosti za realizaciju investicionih projekata;
- kompleksna procedura rješavanja imovinsko-pravnih odnosa zbog neažuriranih zemljišnih knjiga, koje nisu usaglašene sa katastrom;
- dugotrajna i kompleksna procedura nabavki roba / radova / usluga;
- kredit Evropske investicione banke za proširenje AMM sistema nije postao operativan.

Pregled najznačajnijih projekata realiziranih u 2019. godini:

- izgradnja 75 TS 10(20)/0,4 kV i izgradnja distributivne mreže u dužini 633,7 km, od toga 92,9 km srednjonaponske distributivne mreže i 540,8 km niskonaponske distributivne mreže;
- rekonstrukcija 15 TS 10(20)/0,4 kV i rekonstrukcija distributivne mreže u dužini 112 km, od toga 27,8 km srednjonaponske distributivne mreže i 84,2 km niskonaponske distributivne mreže;
- povećanje broja mjernih mjesta u AMM sistemu za 6.125.

The funds were not fully realized for the following reasons:

- *The implementation of certain planned investment projects was abandoned after a review of the need for their implementation, all with the aim of ensuring additional funds for construction of new generation facilities;*
- *Minimal investments (enabling safe and reliable operation) were made in some existing generation units, which will operate in the following period with reduced number of hours in accordance with the applicable planning documents (NERP),*
- *Certain projects were implemented in the planned volume, with smaller investment value than approved in investment decisions;*
- *Implementation of the Law on Public Procurement - insufficient number of bidders and bidders' objections and complaints.*

Investments in Distribution business

The 2019 Distribution business Investment Plan envisages total investment in the amount of 73.6 million BAM, of which 71.7 million BAM pertains to projects in distribution activities, and 1.9 million BAM pertains to system ICT projects

During 2019, the realised investments in the Distribution business projects amounted to 49.1 million BAM, which is 66.7% in comparison with the Revised Investment Plan for 2019, and 115.5% compared to the realization of the investments in 2018.

The reasons of incomplete realization of the Investment Plan are as follows:

- *a long-lasting and complex procedure of obtaining necessary permits and approvals for implementation of investment projects;*
- *a complex procedure of solving property-legal relations due to lack of up-to-date land registers, which are incompatible with cadastre;*
- *a long-term and complex procedure for procurement of goods / works / services;*
- *The European Investment Bank's loan for extension of the AMM system did not become operational.*

Overview of the most significant projects implemented in 2019:

- *Construction of 75 TS 10(20)/0.4 kV and construction of a 633.7 km long distribution network, of which 92.9 km of medium-voltage distribution network and 540.8 km of low-voltage distribution network;*
- *Reconstruction of 15 TS 10(20)/0.4 kV and reconstruction of a 112 km long distribution network, of which 27.8 km of medium-voltage distribution network and 84.2 km of low-voltage distribution network;*
- *increase in the number of measuring points in the AMM system by 6,125.*

Realizacija zajedničkih projekata

Realizirane su planirane aktivnosti na implementaciji Projekta SCADA/DMS/OMS i pripadajućih telekomunikacija na distributivnom nivou, koji se realizira iz kreditnih sredstava i sredstava granta Njemačke razvojne banke i dijelom iz vlastitih sredstava EPBiH. Realizacija Projekta počela je 30. 3. 2016. godine.

Ulaganja u djelatnost Snabdijevanja

U djelatnost Snabdijevanja za 2019. godinu planirana su ukupna investiciona ulaganja u iznosu 2,0 miliona KM, od čega se na projekte iz djelatnosti Snabdijevanja odnosi 1,2 miliona KM, a za sistemske IKT projekte iz ove djelatnosti 0,8 mil. KM.

Tokom 2019. godine ostvaren je nivo investicionih ulaganja na projekte iz djelatnosti Snabdijevanja u iznosu 31,1 hiljada KM, što je 2,6% u odnosu na planom predviđena sredstva namijenjena za projekte djelatnosti Snabdijevanja, dok je za sistemske IKT projekte iz ove djelatnosti realizirano 62,5 hiljada KM ulaganja.

Realizacija plana ulaganja sa nivoa Društva

Kapitalne investicije

U toku 2019. godine kapitalna ulaganja su realizirana u iznosu 60,5 od planiranih 389,4 miliona KM. Realizirane su aktivnosti na pripremi izgradnje termoelektrana, hidroelektrana i malih elektrana iz obnovljivih i alternativnih izvora energije, a obuhvatale su: izvođenje radova, investitorski nadzor, izradu investiciono-tehničke dokumentacije, ispitivanja i istraživanja, pribavljanje potrebnih dozvola i saglasnosti, vođenje postupaka za eksproprijacije nekretnina, zatvaranje finansijske konstrukcije, pripremu tenderske dokumentacije za izbor isporučilaca opreme te izvođača za usluge i radove.

Blok 7 - 450 MW u TE „Tuzla“

Završena je kompletna tenderska procedura za odabir projektnog partnera, kao i pregovori za zatvaranje konstrukcije finansiranja; potpisani su ugovori i prikupljene neophodne saglasnosti.

Implementation of joint projects

Implemented activities in implementation of the SCADA/DMS/OMS Project and associated telecommunications at the distribution level, which is implemented from the loan funds and grant funds of the German Development Bank and partly from the own resources of the EPBiH. Implementation of the Project started on 30 March 2016.

Investments in Supply business

In 2019, in the Supply business Investment Plan, the total planned investments amounted to 2.0 million BAM, of which 1.2 million BAM pertain to the projects in the Supply business, and 0.8 million BAM to the system ICT projects in this business.

In 2019, the achieved investments in projects in the Supply business amounted to 31.1 thousand BAM, which is 2.6% of the planned funds for the projects of the Supply business, while the realised investments for the system ICT projects of this business amounted to 62.5 thousand BAM.

Realization of Investment Plan from the level of the Company

Capital investments

In 2019, realized capital investments amounted to 60.5 million BAM from planned 389.4 million BAM. The activities were realized in the preparation of construction of thermal power plants, hydro power plants and small power plants from renewable and alternative energy sources, and included: construction works, investment supervision, preparation of investment-technical documents, testing and investigation, obtaining necessary permits and approvals, conducting procedures for real estate expropriation, finalisation of financial structure, preparation of tender documents for selection of equipment suppliers and contractors for services and works.

Unit 7 - 450 MW in TPP “Tuzla”

The entire tender procedure for the selection of the project partner has been completed, as well as negotiations for the closure of the financing structure; contracts were signed and necessary approvals were collected.



The Export-Import Bank of China je 5. 12. 2019. godine, nakon što je EPBiH dostavila zahtijevane dokumente, izdala Obavijest o efektivnosti Sporazuma o kreditnoj liniji (Notice of effectiveness of the Facility Agreement, što je omogućilo da EPBiH 25. 12. 2019. godine izda Obavijest o efektivnosti EPC Ugovora.

U 2019. godini pribavljene su nove i obnovljene ranije izdate dozvole neophodne za izgradnju Bloka 7 i to: prethodna vodna saglasnost, vodna saglasnost, urbanistička saglasnost, načelno odobrenje za građenje složene energetske građevine - Bloka 7 u TE „Tuzla“ i energetska dozvola.

Za pripremne radove na uređenju gradilišta urađena je dokumentacija na nivou glavnih i izvedbenih projekta, urađena je tenderska dokumentacija, proveden postupak javne nabavke i ugovoreno je: čišćenje, nasipanje i nivelacija terena; izrada vanjske ograde i ulaznih kapija; izmještanje podzemnih instalacija i nadzemnih objekata; produžetak glavnog kolektora i izmještanje obodnog kanala; rasvjeta i videonadzor na lokaciji izgradnje Bloka 7; napajanje gradilišta električnom energijom na lokaciji izgradnje Bloka 7; izmještanje dalekovoda 220 kV u krugu TE „Tuzla“ radi izgradnje Bloka 7.

Pripremni radovi su započeli 1. 11. 2019. godine, rok završetka je 12 mjeseci, a realizacija izmještanja dalekovoda do 15. 7. 2021. godine.

Blok 8 - 300 MW u TE „Kakanj“

Na osnovu projektnog zadatka pripravljena je tenderska dokumentacija i izabran je izvođač za inoviranje Investiciono-tehničke i okolišne dokumentacije (rađene 2010.g.). Inovirana dokumentacija će sadržiti sve potrebne elemente koji omogućavaju izgradnju Bloka 8, u skladu sa najboljim raspoloživim tehnikama za postrojenja za sagorijevanje – LCP BAT (Best Available Techniques) kao i u skladu sa dijelom Direktive 2010/75/EU o industrijskim emisijama (IED) koji se odnosi na postrojenja za sagorijevanje (Poglavlje III, Annex V).

Ugovor je potpisan 9. 12. 2019. godine, rok za realizaciju je 10 mjeseci od potpisivanja Ugovora.

Vrelodov za snabdijevanje toplotnom energijom iz TE „Kakanj“ područja do/i Sarajeva

Pripremljen je i dostavljen nacrt Idejnog projekta. Slijedi revizija nacrta i izrada finalne verzije Idejnog projekta.

Izgradnja Hidroelektrane „Vranduk“

- u februaru 2019. godine završeni su radovi po nalogu vodnog inspektora (Rješenje Federalne uprave za inspeksijske poslove) - Hitna zaštita desne obale rijeke Bosne od erozije koja se desila zbog lokalnog ubrzanja matice rijeke u uslovima povišenih proljetnih vodostaja i

On 5 December 2019, after EPBiH submitted the required documents, The Export-Import Bank of China issued a Notice of the effectiveness of the Facility Agreement, which enabled EPBiH to issue a Notice on the effectiveness of the EPC Contract on 25 December 2019.

In 2019, new and renewed previously issued permits necessary for the construction of Unit 7 were obtained, namely: preliminary water approval, water approval, urban approval, approval in principle for the construction of a complex energy structure - Unit 7 in TPP “Tuzla” and energy permit.

For the preliminary works on the construction site, documentation was prepared at the level of main and detailed designs, tender documentation was prepared, a public procurement procedure was carried out and the following was agreed: cleaning, backfilling and levelling of the terrain; construction of external fence and entrance gates; relocation of underground installations and above-ground facilities; extension of the main collector and relocation of the circumferential channel; lighting and video surveillance at the construction site of Unit 7; supply of the construction site with electricity at the construction site of Unit 7; relocation of the 220 kV transmission line in the area of TPP “Tuzla” for the construction of Unit 7.

Preliminary works began on 1 November 2019, the completion time is 12 months, and the realization of the relocation of the transmission line by 15 July 2021.

Unit 8 - 300 MW in TPP “Kakanj”

Based on the Terms of Reference, tender documents were prepared and the contractor was selected for the innovation of the investment-technical and environmental documents (prepared in 2010). Innovated documents will contain all the necessary elements that enable the construction of Unit 8 in accordance with the Best Available Techniques for Combustion Plants - LCP BAT and in accordance with part of the Industrial Emissions Directive 2010/75/EU (IED) that refers to combustion plants (Chapter III, Annex V).

The Contract was signed on 9 December 2019, the deadline for implementation is 10 months from the signing of the Contract.

Hot-water pipeline for heating energy supply of Area to/ including Sarajevo from TPP “Kakanj”

A draft Preliminary Design has been prepared and submitted. This will be followed by a revision of the draft and preparation of the final version of the Preliminary Design.

Construction of Hydro power plant “Vranduk”

- *In February 2019, works were carried out on the order of the water inspector (Decision of the Federal Administration for Inspection Affairs) - Emergency*

- prisustva zagata brane u koritu rijeke;
- izvođač radova JV Strabag-KET je okončao proces uklanjanja dobara sa gradilišta – tzv. demobilizaciju gradilišta;
- otkazani su krediti EBRD i EIB za izgradnju;
- sporazumno su raskinuti konsultantski ugovori za HE „Vranduk“;
- pripremljena je neophodna dokumentacija za potrebe arbitražnog procesa;
- pokrenute su aktivnosti za obnavljanje dozvola i drugih upravnih akata za izgradnju HE „Vranduk“;
- pokrenuta je izrada tenderske dokumentacije i provođenje novog postupka nabavke izvođača za izgradnju HE „Vranduk“.

HE „Janjići“ - 15,75 MW na rijeci Bosni, Zenica

- provedeni pregovori sa predstavnicima Gradske uprave Grada Zenice i usaglašena lista prioritarnih projekata koji će se realizirati kroz program prijateljskog okruženja;
- objavljen javni poziv, od strane KfW-a, za podnošenje aplikacija u procesu pretkvalifikacija, za izbor projektanta za izradu Glavnog projekta za HE „Janjići“;
- Federalno ministarstvo prostornog uređenja, na zahtjev EPBiH, izdalo je načelno odobrenje za građenje složene građevine HE „Janjići“.

HE „Una Kostela“, nastavak rekonstrukcije i proširenje - 13,7 MW na rijeci Uni, Bihać

- pokrenut upravni postupak za sticanje urbanističke saglasnosti za projekt nastavka rekonstrukcije i proširenje HE „Una Kostela“;
- finalizirana izrada i revizija Modela i provođenje hidrauličkih modelskih ispitivanja za ulaznu građevinu i prag u koritu rijeke za HE „Una Kostela“ – rekonstrukcije i proširenje;
- Agencija za vodno područje rijeke Save izdala je Rješenje o prethodnoj vodnoj saglasnosti za nastavak rekonstrukcije i proširenje HE „Una Kostela“.

HE „Ustikolina“ - 60,48 MW na rijeci Drini, Foča-Ustikolina i Goražde

- u martu 2019. godine, Gradsko vijeće Grada Goražda, a u augustu 2019.g. Općinsko vijeće Općine Foča – Ustikolina donijela su odluke o davanju pozitivnog mišljenja za izvođenje prethodnih istražnih radova za izgradnju HE „Ustikolina“;
- 20. 6. 2019. godine donesena je Odluka o investicionom ulaganju u pripremne aktivnosti za realizaciju projekta izgradnje HE „Ustikolina“ (finansiranje istražnih radova u cilju kompletiranja Idejnog projekta HE „Ustikolina“);
- 12. 9. 2019. godine Agencija za vodno područje rijeke Save izdala Rješenje o prethodnoj vodnoj saglasnosti;

primary protection of the right bank of the Bosna river from the erosion that occurred due to local acceleration of the river main current under conditions of elevated spring water levels and the presence of cofferdam in the river bed;

- *the contractor JV Strabag-KET has completed the process of removing goods from the construction site - the so-called construction site demobilization;*
- *EBRD and EIB loans for construction were cancelled;*
- *the consulting contracts for HPP “Vranduk” were terminated by mutual agreement;*
- *the necessary documentation has been prepared for the purposes of the arbitration process;*
- *activities have been initiated for the renewal of permits and other administrative acts for the construction of HPP “Vranduk”;*
- *the preparation of tender documentation and the implementation of a new procurement procedure for the construction of HPP “Vranduk” was initiated.*

HPP “Janjići” - 15.75 MW on the Bosna river, Zenica

- *conducted negotiations with representatives of the City Administration of the City of Zenica and agreed on a list of priority projects that will be implemented through a friendly environment program;*
- *published public call, by KfW, for submission of applications in the pre-qualification process, for selection of the designer for the development of the Main Design for HPP “Janjići”;*
- *At the request of EPBiH, the Federal Ministry of Physical Planning issued an approval in principle for the construction of the complex building of HPP “Janjići”.*

HPP “Una Kostela”, continuation of reconstruction and extension - 13.7 MW on the Una River, Bihać

- *initiated an administrative procedure for obtaining urban approval for the project of continuing the reconstruction and expansion of HPP “Una Kostela”;*
- *Completed preparation and revision of Model and implementation of hydraulic model tests for the intake structure and threshold in the river bed for HPP “Una Kostela” - reconstruction and expansion;*
- *The Sava River Watershed Agency has issued a Decision on prior water approval for the continuation of the reconstruction and expansion of HPP “Una Kostela”.*

HPP “Ustikolina” - 60.48 MW on the Drina River, Foča-Ustikolina and Goražde

- *In March 2019, the City Council of the City of Goražde, and in August 2019 The Municipal Council of the Municipality of Foča - Ustikolina made decisions on giving a positive opinion for the conduct of preliminary*

- 1. 10. 2019. godine FMOiT donijelo Rješenje o okolišnoj dozvoli za projekt izgradnje HE „Ustikolina“;
- pripremljen i otvoren postupak nabavke i odabir izvođača za izvođenje geoloških-geomehaničkih i seizmoloških istražnih radova, laboratorijsko ispitivanje i izradu elaborata o izvedenim istraživanjima za HE „Ustikolina“.

HE „Kovanići“ - 9,1 MW na rijeci Bosni, Zenica i Žepče

- potpisan je Ugovor za izradu Idejnog projekta i Ugovor za reviziju, obavljena je revizija podloga za izradu Idejnog projekta;
- potpisan Ugovor za izradu Studije utjecaja na okoliš.

HE „Babino Selo“ – 6,17 MW na rijeci Vrbas, Donji Vakuf

- urađena je i odobrena finalna verzija Studije izvodljivosti HE „Babino Selo“;
- urađena je finalna verzija Studije utjecaja na okoliš sa uvrštenim rezultatima od „Procjene kritičnih staništa“.

SHE na gornjem toku rijeke Neretve: HE „Glavatičevo“, HE „Bjelimići“ i HE „Bjelimići“

- podnesen ponovljeni Prijedlog za dodjelu koncesije za Sistem hidroelektrana na gornjem toku rijeke Neretve, putem samoinicijativne ponude.

Priprema i izgradnja MHE „Kakanj“ na slivu rijeke Bosne

- izabran projektant za izradu Idejnog projekta za MHE „Kakanj“;
- Ugovor za izradu Idejnog projekta je potpisan 3. 6. 2019. godine, a stupio na snagu 3. 10. 2019. godine.



investigation works for the construction of HPP “Ustikolina”;

- *On 20 June 2019, the Decision on investment in preliminary activities for the implementation of the construction project of HPP “Ustikolina” (financing of investigation works in order to complete the Preliminary Design of HPP “Ustikolina”) was made;*
- *On 12 September 2019, the Sava River Watershed Agency issued a Decision on Preliminary Water Approval;*
- *On 1 October 2019, FMOET issued a Decision on Environmental Permit for the construction project of HPP “Ustikolina”;*
- *Prepared and opened the procurement procedure and selection of contractors for geological-geomechanical and seismological investigation works, laboratory testing and preparation of studies on the performed investigations for HPP “Ustikolina”.*

HPP “Kovanići” - 9.1 MW on the Bosna river, Zenica and Žepče

- *The Contract for the preparation of the Preliminary Design and the Contract for the Audit were signed, the basic data for the preparation of the Preliminary Design were revised;*
- *The Contract for the preparation of the Environmental Impact Study was signed.*

HPP “Babino Selo” - 6.17 MW on the Vrbas River, Donji Vakuf

- *Prepared and approved final version of the Feasibility Study for HPP “Babino Selo”;*
- *The final version of the Environmental Impact Study was made with the results from the “Critical Habitat Assessment” included.*

SHPPs in the upper flow of the Neretva River: HPP “Glavatičevo”, HPP “Bjelimići” and PHPP “Bjelimići”

- *Repeated Proposal for concession for the Hydro Power Plants System in the upper flow of the Neretva River through uninvited bid was submitted.*

Preparation and construction of SHPP “Kakanj” on the Bosna River basin

- *Selected designer for the development of the Preliminary Design for SHPP “Kakanj”;*
- *The Contract for the development of the Preliminary Design was signed on 3 June 2019, and entered into force on 3 October 2019.*

MHE na slivu rijeke Neretvice - Priprema i izgradnja

- tri puta je poništavan tender za opremu IA faza projekta (2 mHE „Srijanski most“ i mHE „Gorovnik ušće“), a koji je prvi put objavljen u maju 2018. godine;
- ponudbena garancija je produžena do kraja januara 2020. godine od strane odabranog izvođača za tender građevinskih radova IA faza projekta (2 mHE „Srijanski most“ i mHE „Gorovnik ušće“);
- završena evaluacija ponuda dostavljenih na tender za opremu IA faza projekta (2 mHE „Srijanski most“ i mHE „Gorovnik ušće“) i odabran izvođač;
- pripremljeni su ugovori za IA fazu projekta (2 mHE „Srijanski most“ i mHE „Gorovnik ušće“) i to Ugovor za izvođenje građevinskih radova sa izgradnjom cjevovoda i Ugovor za nabavku opreme.

Priprema i izgradnja Vjetroelektrane „Podveležje 1“, Mostar

- tokom 2019. godine nastavljene su aktivnosti na pripremi izgradnje VE „Podveležje 1“ (faza I i faza II projekta);
- odobreno je prolongiranje roka za realizaciju, novi rok je 31. 12. 2020. godine;
- 26. 2. 2019. godine zaključen je TSA ugovor - isporuka i montaža 15 vjetroagregata sa temeljima i LTSA ugovor, čime je okončano potpisivanje ugovora sa odabranim izvođačima na sve tri komponente projekta (LOT 1, LOT 2 i LOT 3);
- aktivnosti na realizaciji aktivnosti u vezi sa LOT 1 odvijaju se u skladu sa ugovorenim rokovima;
- realizacija ugovora o izgradnji transformatorske stanice 110/30kV i interne 30kV kablovske i fiberoptičke mreže (LOT 2 komponenta) je u toku, ne očekuje se kašnjenje u realizaciji u odnosu na ugovoreni rok, finaliziranje radova na LOT-u 2 uslovljeno je okončanjem radova na LOT-u 1;
- izgradnja pristupnih puteva, servisnih saobraćajnica i montažnih platoa za kranove (LOT 3 komponenta), projekt je završen 20. 8. 2018. godine, u skladu sa ugovorenim rokom, tehnički pregled je izvršen i Ministarstvo građenja i prostornog uređenja HNK izdalo je upotrebnu dozvolu.

Informaciono-komunikacione tehnologije – IKT

U 2019. godini u realizaciju investicionih projekata iz oblasti IKT uloženo je 2,1 milion KM za zajedničke projekte i projekte djelatnosti.

SHPP on the Neretvica River basin - Preparation and construction

- *The tender for the equipment of the IA phase of the project (2 SHPPs “Srijanski most” and SHPP “Gorovnik ušće”), which was first announced in May 2018, was cancelled three times;*
- *The bid security was extended until the end of January 2020 by the selected contractor for the tender for construction works of IA phase of the project (2 SHPPs “Srijanski most” and SHPP “Gorovnik ušće”);*
- *Completed evaluation of bids submitted to the tender for equipment of IA phase of the project (2 SHPPs “Srijanski most” and SHPP “Gorovnik ušće”) and selected contractor;*
- *Contracts were prepared for the IA phase of the project (2 SHPPs “Srijanski most” and SHPP “Gorovnik ušće”), namely the Contract for construction works with the construction of the pipeline and the Contract for the procurement of equipment.*

Preparation and construction of the Wind Power Plant “Podveležje 1”, Mostar

- *During 2019, activities continued on the preparation of the construction of WPP “Podveležje 1” (phase I and phase II of the project);*
- *The extension of the deadline for implementation was approved, the new deadline is 31 December 2020;*
- *On 26 February 2019, the TSA contract was concluded - delivery and installation of 15 wind turbines with foundations and LTSA contract, which ended the signing of contracts with selected contractors on all three components of the project (LOT 1, LOT 2 and LOT 3);*
- *Activities on the implementation of activities related to LOT 1 are carried out in accordance with the agreed deadlines;*
- *Realization of the contract on construction of 110/30kV transformer station and internal 30kV cable and fibre optic network (LOT 2 component) is in progress, no delay in realization is expected in relation to the agreed deadline, finalization of works on LOT 2 is conditioned by completion of works on LOT 1;*
- *Construction of access roads, service roads and prefabricated plateaus for cranes (LOT 3 component), the project was completed on 20 August 2018, in accordance with the agreed deadline, the technical inspection was performed and the Ministry of Construction and Physical Planning of the Herzegovina-Neretva Canton issued a use permit.*

Information and Communication Technologies - ICT

In 2019, the amount of 2.1 million BAM was invested in implementation of ICT projects, i.e. in joint projects and activity projects.

Planirana i realizirana ulaganja po djelatnostima

Ulaganja po tačkama plana - IKT	Plan za 2019.	Ostvareno I - XII 2019.	Procenat realizacije
IKT Proizvodnja	0,38	0,31	81,58%
IKT Distribucija	1,88	0,656	34,89%
IKT Snabdijevanje i trgovina	0,799	0,0625	7,82%
IKT Zajednički	2,69	1,07	39,78%
IKT ukupno	5,75	2,10	36,50%

U toku 2019. godine, Sektor za IKT aktivno je učestvovao u planiranju, realizaciji i davanju tehničke podrške za SCADA/DMS/OMS projekt, te na projektima kapitalnih investicija (novi proizvodni EEO), na EIB projektu proširenja AMM sistema u djelatnosti distribucije i na pilot-projektu sistema elektromobilnosti. Implementirani su brojni projekti u oblastima: optičkog kablovskog sistema, telefonske mreže, telekomunikacione opreme, sistema besprekidnog napajanja, sistema govornih radioveza i dr.

Zajednički projekti – Opći poslovi

U dijelu općih poslova, u toku 2018. godine, od planiranih 1,1 milion KM realizirano je 356 hiljada KM ili 32,5%. Realizirani zajednički projekti sa nivoa Društva odnose se na nabavku vozila na električni pogon za djelatnost Distribucije, punionice za električna vozila za elektrodistributivne podružnice te uređenje parking prostora električne punionice ispred PTZ-a.

Realizacija plana ulaganja u zavisna društva rudnike uglja

Za dokapitalizaciju sedam zavisnih društava rudnika uglja, u 2019. godini, Planom je predviđeno ulaganje u iznosu 56,7 miliona KM, dok je za taj period realizirano 21,9 miliona KM ili 38,6% plana.

Ulaganja u rudnike tokom 2019. godine su iznosila:

- Rudnici uglja „Kreka“ d.o.o. Tuzla 6,9 miliona KM
- Rudnik mrkog uglja „Đurdevik“ d.o.o. Đurdevik 14,0 miliona KM
- Rudnik mrkog uglja „Kakanj“ d.o.o. Kakanj nije bilo ulaganja
- Rudnik mrkog uglja „Breza“ d.o.o. Breza 0,7 miliona KM
- Rudnik mrkog uglja „Zenica“ d.o.o. Zenica 0,1 milion KM
- Rudnik uglja „Gračanica“ d.o.o. Gornji Vakuf nije bilo ulaganja
- Rudnik mrkog uglja „Abid Lolić“ d.o.o. Travnik 0,2 miliona KM

Najznačajnije investicije u zavisna društva rudnike uglja tokom 2019. godine

Planned and realized investments by activities

Investments per plan items - ICT	Plan for 2019	Realised I - XII 2019	Realisation percentage
ICT Generation	0,38	0,31	81,58%
ICT Distribution	1,88	0,656	34,89%
ICT Supply and Trade	0,799	0,0625	7,82%
ICT Joint Projects	2,69	1,07	39,78%
ICT Total	5,75	2,10	36,50%

During 2019, the ICT Sector actively participated in the planning, implementation and provision of technical support for the SCADA/DMS/OMS project, as well as in capital investment projects (new production EEO), the EIB AMM system expansion project in the distribution industry and pilot project of the electromobility system. Numerous projects have been implemented in the areas of: optical cable system, telephone network, telecommunication equipment, uninterruptible power supply system, voice radio system, etc.

Joint projects - General Affairs

In the part of general affairs, during 2018, out of the planned 1.1 million BAM, 356 thousand BAM or 32.5% were realized. Implemented joint projects from the level of the Company relate to the procurement of electric vehicles for the Distribution business, charging stations for electric vehicles for electricity distribution branches and arranging the parking space of the electric charging station in front of BTB.

Realization of investment plan in subsidiary companies - coal mines

For recapitalization of seven subsidiary companies - coal mines in 2019, the Plan envisaged investments in the amount of 56.7 million BAM, while 21.9 million BAM or 38.6% of the plan was realized for this period.

Investments in coal mines during 2019 amounted to:

- Coal mines „Kreka“ d.o.o. Tuzla 6.9 million BAM
- Brown coal mine „Đurdevik“ d.o.o. Đurdevik 14.0 million BAM
- Brown coal mine „Kakanj“ d.o.o. Kakanj there were no investments
- Brown coal mine „Breza“ d.o.o. Breza 0.7 million BAM
- Brown coal mine „Zenica“ d.o.o. Zenica 0.1 million BAM
- Coal mine „Gračanica“ d.o.o. Gornji Vakuf there were no investments
- Brown coal mine „Abid Lolić“ d.o.o. Travnik 0.2 million BAM

The most significant investments in subsidiary companies-coal mines during 2019 are as follows:

Rudnici uglja „Kreka“ d.o.o. Tuzla

• Eksproprijacija zemljišta PK Dubrave i PK Šikulje	0,9 miliona KM
• Elektrohidraulički bager	2,2 miliona KM
• Utovarivač	0,4 miliona KM
• Dizel hidraulična lokomotiva sa tri transportne grede	0,8 miliona KM
• Revitalizacija BTO i BTK kompleksa	2,6 miliona KM

Rudnik mrkog uglja „Đurdevik“ d.o.o. Đurdevik

• Elektrohidraulički bager	8,9 miliona KM
• Zglobni damperi	2,1 milion KM
• Damperi 130 - 140 t	2,2 miliona KM
• Bušača garnitura	0,8 miliona KM

Rudnik mrkog uglja „Kakanj“ d.o.o. Kakanj

- Nije bilo ulaganja.

Rudnik mrkog uglja „Breza“ d.o.o. Breza

• Izrada i rekonstrukcija rudarskih prostorija	0,7 miliona KM
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Rudnik mrkog uglja „Zenica“ d.o.o. Zenica

• Digitalni tahograf	0,1 milion KM
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Rudnik uglja „Gračanica“ d.o.o. Gornji Vakuf

- Nije bilo ulaganja

Rudnik mrkog uglja „Abid Lolić“ d.o.o. Travnik

• Istražna bušenja	76 hiljada KM
• Jamska trafostanica	72 hiljade KM
• Srednjonaponski prekidači	62 hiljade KM

Glavni razlozi koji su onemogućili realizaciju plana ulaganja u ZD rudnike su striktna primjena Zakona o javnim nabavkama, što onemogućava dovoljno efikasnu realizaciju ulaganja, i nedovoljna pripremljenost rudnika da realiziraju investiciona ulaganja (nedostatak investiciono-tehničke dokumentacije, organizaciona nepripremljenost, nedostatak kadrova i sl.).

Coal mines „Kreka“ d.o.o. Tuzla

• Expropriation of land Open cut mining (OCM) “Dubrave” and OCM “Šikulje”	0.9 million BAM
• Electrohydraulic excavator	2.2 million BAM
• Loader	0.4 million BAM
• Diesel hydraulic locomotive with three transport beams	0.8 million BAM
• Revitalization of BTO and BTK complex	2.6 million BAM

Brown coal mine „Đurdevik“ d.o.o. Đurdevik

• Electrohydraulic excavator	8.9 million BAM
• Articulated dumpers	2,1 million BAM
• Dumpers 130 - 140 t	2.2 million BAM
• Drilling set	0.8 million BAM

Brown coal mine „Kakanj“ d.o.o. Kakanj

- There was no investment.

Brown coal mine „Breza“ d.o.o. Breza

• Construction and reconstruction of mining facilities	0.7 million BAM
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Brown coal mine „Zenica“ d.o.o. Zenica

• Digital tachograph	0.1 million BAM
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Coal mine „Gračanica“ d.o.o. Gornji Vakuf

- There was no investment

Brown coal mine „Abid Lolić“ d.o.o. Travnik

• Exploratory drilling	76 thousand BAM
• Pit transformer substation	72 thousand BAM
• Medium voltage switches	62 thousand BAM

The main reasons that prevented the realization of investment plan in subsidiary companies-mines are the strict application of the Law on Public Procurement which disables sufficiently efficient investment realization, and insufficient preparedness of mines to realize investments (lack of investment-technical documents, lack of organizational preparedness, lack of staff, etc.).

REALIZACIJA PLANA LJUDSKIH RESURSA

Na dan 31. 12. 2019. godine, broj zaposlenih u EPBiH bio je 4.421, od čega 4.325 na neodređeno vrijeme, 4 radnika na određeno vrijeme, te 9 radnika sa statusom mirovanja ili na neplaćenom odsustvu, dok je u statusu pripravnika bilo 75 osoba. Ovo su kategorije koje su fiksno utvrđene planovima.

Zapošljavanje novih radnika u 2019. godini vršeno je u skladu sa Odlukom o utvrđivanju načina realizacije zapošljavanja novih radnika i pripravnika u JP Elektroprivreda Bosne i Hercegovine d.d. - Sarajevo, a prema planom utvrđenom broju.

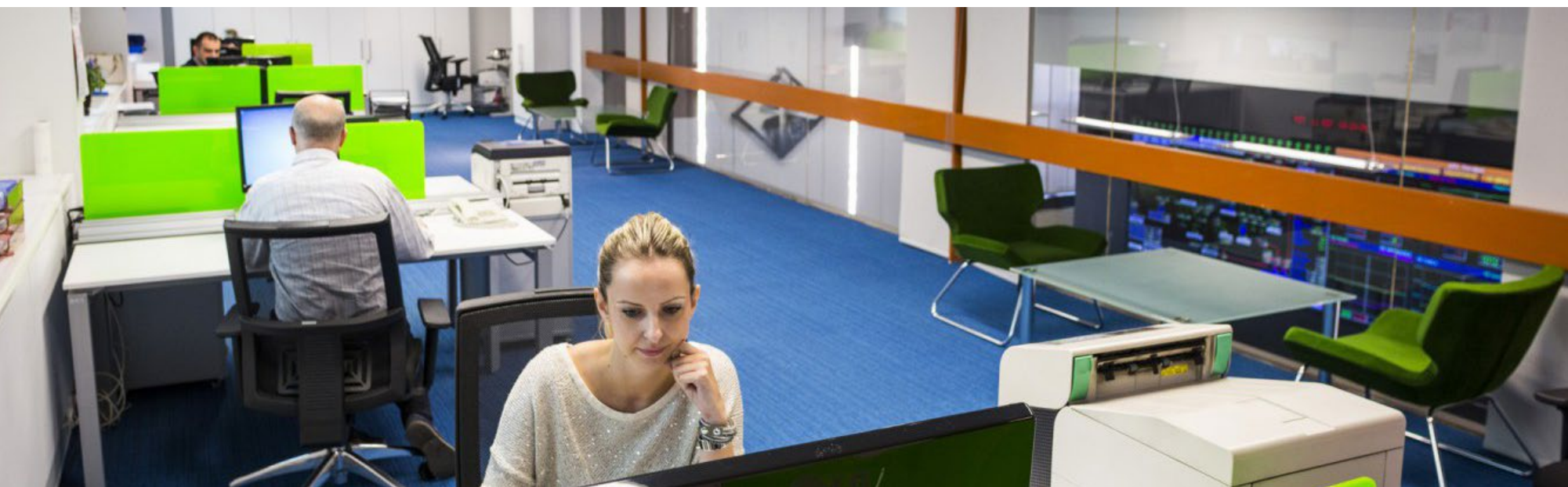
NK	PK	KV	SS	VK	VŠ	VS	MR	DR
20	79	532	1.083	1.419	116	941	114	21

REALIZATION OF THE HUMAN RESOURCES PLAN

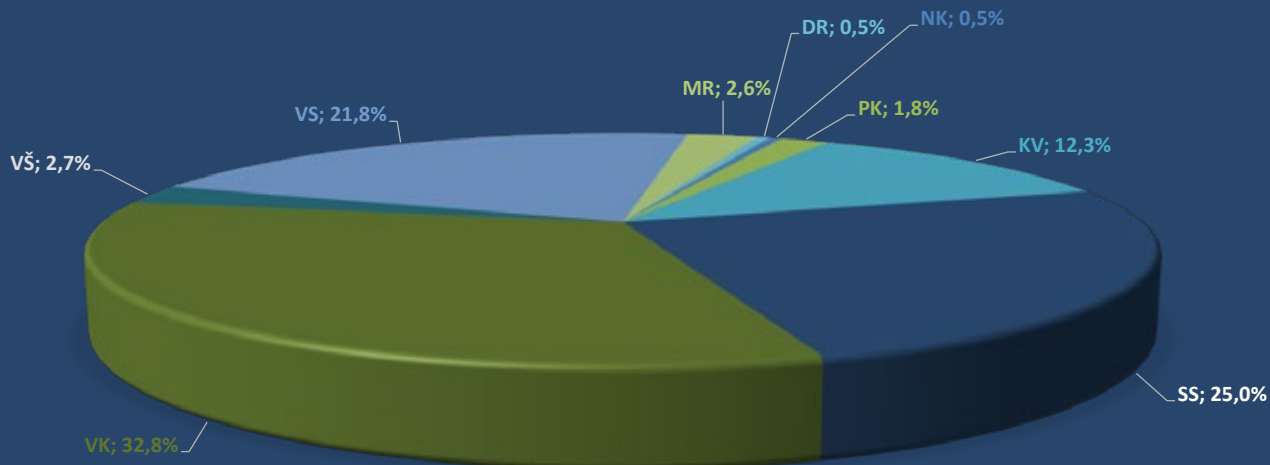
As of 31 December 2019, the number of employees in EPBiH was 4,421, of which 4,325 were permanently employed, 4 employees with a fixed-term contract, and 9 employees whose status was suspended or who were on an unpaid leave, while there were 75 trainees. These are categories that are fixed in the plans.

Employment of new employees in 2019 was performed in accordance with the Decision on determining the method of realization of employment of new employees and engagement of trainees in JP Elektroprivreda Bosne i Hercegovine d.d. - Sarajevo, and in accordance with the numbers defined in the Plan.

Unqualified employees (NK)	Semi-qualified employees (PK)	Qualified employees (KV)	Employees with secondary school education (SS)	Highly qualified employees (VK)	Employees with non-university degree (VŠ)	Employees with university degree (VS)	MSc (MR)	PhD (DR)
20	79	532	1.083	1.419	116	941	114	21

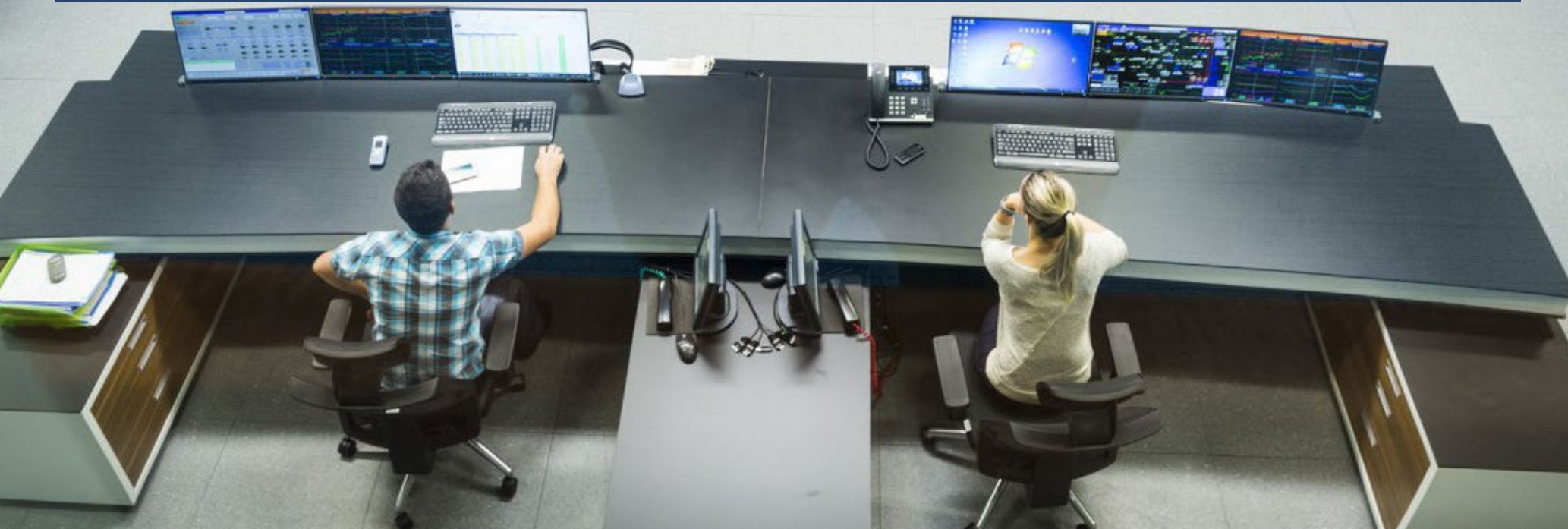


Kvalifikaciona struktura zaposlenih na neodređeno vrijeme / Qualification structure of permanent employees



Donošenjem Odluke o načinu izbora, postupku i kriterijima za izbor novih radnika i pripravnika u Društvu, od 26. 4. 2019. godine, uspostavljen je novi sistem selekcije kadrova po osnovu javnog oglašavanja, u skladu sa Uredbom o postupku prijema u radni odnos u javnom sektoru u Federaciji BiH. U skladu sa navedenom odlukom, zapošljavanja novih radnika i pripravnika u pravilu se vrše provođenjem javnog oglašavanja, s ciljem da se obezbijedi jednak pristup i jednake mogućnosti zapošljavanja u Društvu, te da se izvrši izbor najkompetentnijih kandidata.

By adopting the Decision on the manner of selection, procedure and criteria for the selection of new employees and trainees in the Company, dated 26 April 2019, a new system of personnel selection based on public advertising was established, in accordance with the Decree on the procedure of employment in public sector in the Federation of BiH. In accordance with the aforementioned Decision, hiring of new employees and trainees is usually done by conducting public advertising, in order to ensure equal access and equal employment opportunities in the Company, and to select the most competent candidates.



Stanje zaposlenih u EPBiH na dan 31. 12. 2019.

Red. broj	Organizacioni dio	Stanje 31. 12. 2018.	Stanje na dan 31. 12. 2019.					Ukupno
			Neodređeno	Određeno	Ostalo	Zamjena / pripravnici	Ukupno	
1	Uprava i org. jedinice uz Upravu	117	112		1	113		113
2	Sektor za proizvodnju	10	9			9	1	10
3	Sektor za rudarstvo	8	8		1	9		9
4	Sektor za distribuciju	12	15			15	1	16
5	Sektor za upravljanje i trgovinu	24	23		1	24	1	25
6	Sektor za snabdijevanje	15	14			14		14
7	Ekonomski poslovi	35	35			35		35
8	Pravni i kad. poslovi	19	19			19		19
9	Kapitalne investicije	31	31			31		31
10	Razvoj u Društvu	26	22			22		22
11	Opći poslovi	36	41			41		41
12	Ured sekretara Društva	4	4			4		4
13	Odjel za internu reviziju	11	9			9		9
DIREKCIJA UKUPNO		348	342	0	3	345	3	348
1	HE na Neretvi	344	341			341	8	349
2	TE „Kakanj“	596	587		1	588	19	607
3	TE „Tuzla“	640	632	3		635	5	640
4	ED Bihać	388	379		1	380	7	387
5	ED Mostar	209	210		1	211	3	214
6	ED Sarajevo	581	557	1	1	559	15	574
7	ED Tuzla	579	574		1	575	10	585
8	ED Zenica	693	703		1	704	13	717
EPBiH Ukupno		4.378	4.325	4	9	4.338	83	4.421

Status of employees in EPBiH as of 31 Dec. 2019

S/N	Organizational part	As of 31 Dec. 2018	As of 31 Dec. 2019					Total
			Permanent employment	Fixed-term contract	Other	Replacement / trainees	Total	
1	Management and Management related organisational units	117	112		1	113		113
2	Department for generation	10	9			9	1	10
3	Department for mining	8	8		1	9		9
4	Department for distribution	12	15			15	1	16
5	Department for management and trade	24	23		1	24	1	25
6	Department for supply	15	14			14		14
7	Economic affairs	35	35			35		35
8	Legal affairs and human resources	19	19			19		19
9	Capital investments	31	31			31		31
10	Development in the Company	26	22			22		22
11	General affairs	36	41			41		41
12	Company Secretary Office	4	4			4		4
13	Internal audit unit	11	9			9		9
TOTAL in the DIRECTORATE		348	342	0	3	345	3	348
1	HPPs on the Neretva River	344	341			341	8	349
2	TPP „Kakanj“	596	587		1	588	19	607
3	TPP „Tuzla“	640	632	3		635	5	640
4	ED Bihać	388	379		1	380	7	387
5	ED Mostar	209	210		1	211	3	214
6	ED Sarajevo	581	557	1	1	559	15	574
7	ED Tuzla	579	574		1	575	10	585
8	ED Zenica	693	703		1	704	13	717
Total EPBiH		4.378	4.325	4	9	4.338	83	4.421

IZVJEŠTAJ O NABAVKAMA

Ukupna vrijednost ugovora koje je u toku 2019. godine zaključila EPBiH je 542.737.532 KM, od čega su:

- ugovori zaključeni za potrebe EPBiH u iznosu 531.538.505 KM,
- ugovori zaključeni za potrebe zavisnih društava rudnika po osnovu odluka o dokapitalizaciji rudnika u iznosu 11.199.027 KM.

PROCUREMENT REPORT

The total value of the contracts concluded by EPBiH in 2019 amounted to 542,737,532 BAM, of which:

- contracts concluded for the needs of EPBiH in the amount of 531,538,505 BAM,
- contracts concluded for the needs of subsidiary companies - coal mines on the basis of decisions on recapitalization of the mines in the amount of 11,199,027 BAM.

Pregled zaključenih ugovora o nabavkama u 2019. godini za EPBiH

Vrsta postupka	Broj postupaka	Vrijednost u KM	% vrijednosti
Direktni sporazum	1.574	1.798.262	0,34%
Konkurentski postupak sa objavom	294	2.536.310	0,48%
Pregovarački postupak sa objavom	4	5.874.172	1,11%
Pregovarački postupak bez objave	39	87.707.630	16,50%
Otvoreni postupak	1.426	98.311.052	18,50%
Ograničeni postupak sa pretkvalifikacijom	0	0	0 %
Ugovori koji se dodjeljuju po posebnom režimu	22	1.387.186	0,26%
Nabavka od zavisnih društava	127	333.684.166	62,78%
Izuzete od primjene ZJN-a	532	239.727	0,045%
UKUPNO:	4.018	531.538.505	100,0%

Overview of concluded procurement contracts in 2019 for EPBiH

Procedure type	Number of procedures	Value in BAM	% of value
Direct agreement	1.574	1.798.262	0,34%
Competitive procedure with procurement notice	294	2.536.310	0,48%
Negotiated procedure with procurement notice	4	5.874.172	1,11%
Negotiated procedure without procurement notice	39	87.707.630	16,50%
Open procedure	1.426	98.311.052	18,50%
Restricted procedure with pre-qualification	0	0	0 %
Contracts awarded under special regime	22	1.387.186	0,26%
Procurement from subsidiary companies	127	333.684.166	62,78%
Excluded from the application of the PPL	532	239.727	0,045%
TOTAL:	4.018	531.538.505	100,0%

EPBiH je putem otvorenog postupka (1.426 postupaka) zaključila ugovore u iznosu 98.31 hilj. KM, što čini 18,5% vrijednosti ukupno zaključenih ugovora u 2019. godini. Broj i vrijednost otvorenih postupaka povećan je u odnosu na 2018. godinu.

Za nabavke od zavisnih društava provedeno je 127 postupaka, što čini 62,78% ukupne nabavke EPBiH, s tim da se većina vrijednosti, 315,88 mil. KM, odnosi na ugovore o nabavci uglja od 6 rudnika u sastavu Koncerna EPBiH. Nabavka uglja čini 59,43% ukupne vrijednosti svih zaključenih ugovora na nivou EPBiH.

Vrijednost ugovora zaključenih sa ostalim zavisnim društvima:

- TTU Energetik d.o.o. Tuzla – 2.018.962 KM
- Iskraemeco d.o.o. Sarajevo – 9.004.773 KM
- Eldis-tehnika d.o.o. Sarajevo – 6.778.092 KM

Pregled zaključenih ugovora o nabavkama u 2019. godini za ZD rudnike

Vrsta postupka	Broj postupaka	Vrijednost u KM	% vrijednosti
Otvoreni postupak	17	8.841.988	78,95%
Pregovarački postupak sa objavom obavještenja	1	312.459	2,79 %
Nabavka od ZD (TTU Energetik i Eldis-tehnika)	5	2.044.580	18,26%
UKUPNO:	23	11.199.027	100,0%

Through open procedure (1,426 procedures), EPBiH concluded contracts in the amount of 98.31 thousand KM, which makes 18.5% of the value of total concluded contracts in 2019. The number and value of open procedures has increased compared to 2018.

For procurements from subsidiaries, 127 procedures were performed, which makes 62.78% of the total procurement of EPBiH, with the majority of value, 315.88 million BAM, pertaining the contracts for coal supply from 6 coal mines within the EPBiH Concern. Procurement of coal makes 59.43% of the total value of all concluded contracts at the level of EPBiH.


Value of contracts concluded with other subsidiary companies:

- TTU Energetik d.o.o. Tuzla - 2,018,962 BAM
- Iskraemeco d.o.o. Sarajevo - 9,004,773 BAM
- Eldis-tehnika d.o.o. Sarajevo - 6,778,092 BAM

Overview of concluded procurement contracts in 2019 for subsidiary companies-coal mines

Procedure type	Number of procedures	Value in BAM	% of value
Open procedure	17	8.841.988	78,95%
Negotiation procedure with procurement notice	1	312.459	2,79 %
Procurement from subsidiary company (TTU Energetik and Eldis-tehnika)	5	2.044.580	18,26%
TOTAL:	23	11.199.027	100,0%





Putem EPBiH ugovarane su nabavke za potrebe zavisnih društava rudnika, a u vezi s odlukama o dokapitalizaciji rudnika iz sredstava Koncerna EPBiH. Vrijednost ovih nabavki je 11,199 mil. KM od čega je 8,84 mil. KM realizirano putem otvorenog postupka, zatim 2,04 mil. KM putem nabavke od zavisnih društava TTU Energetik d.o.o. Tuzla i Eldis-tehnika d.o.o. Sarajevo, a preostalih 0,31 mil. KM kroz pregovarački postupak sa objavom obavještenja.

Sve nabavke u EPBiH (centralizirane i decentralizirane) provode se putem „E-aukcije“, a što je u značajnoj mjeri dovelo do snižavanja cijena pojedinih roba / radova i usluga.

Broj pregovaračkih postupaka bez objave obavještenja sveden je na minimum, uz primjenu isključivo u situacijama definiranim Zakonom o javnim nabavkama. U ukupnom broju postupaka (4.018) na pregovarački postupak bez objave otpada svega 0,97%, ali u ukupnoj ugovorenoj vrijednosti iznosi 87,7 mil. KM ili 16,5% i to pretežno zbog velikih vrijednosti pregovaračkih postupaka za nabavku uglja sa RMU Banovići, nabavku uglja iz RU „Gračanica“ i prijevoz uglja željeznicom.

Stalnom kontrolom i revizijom svrsishodnosti nabavki, kontinuiranom kontrolom stanja zaliha na skladištima znatno je smanjen broj nesvrshodnih nabavki u toku 2019. godine.

Procurement for the needs of subsidiaries - coal mines was contracted through EPBiH, in connection with decisions on recapitalization of coal mines from the funds of the EPBiH Concern. The value of these procurements was 11.199 million BAM, of which 8.84 million BAM was realized through open procedure, followed by 2.04 million BAM through procurement from subsidiaries TTU Energetik d.o.o. Tuzla and Eldis-tehnika d.o.o. Sarajevo, and the remaining 0.31 million BAM through negotiation procedure with procurement notice.

All procurements in the EPBiH (centralized and decentralized) are performed exclusively through the “E-Auction”, which has significantly reduced the prices of certain goods / works and services.

The number of negotiated procedures without procurement notice was minimized, and performed exclusively in circumstances stipulated by the Public Procurement Law. In the total number of procedures (4,018), only 0.97% are under the negotiated procedure without procurement notice, but in the total contracted value it amounts to 87.7 million BAM or 16.5%, mainly due to the high value of negotiated procedures for the procurement of coal with RMU Banovići, the procurement of coal from RU “Gračanica” and the transport of coal by rail.

Through permanent control and reviewing of the viability of procurements, continuous control of stocks in the warehouses, the number of unsatisfactory purchases was significantly decreased in 2019.

ZAŠTITA OKOLIŠA

EPBiH i njena zavisna društva odlučni su u nastojanju da odgovorno pristupe svim svojim poslovnim aktivnostima, uzimajući u obzir utjecaje na okoliš i poštovanje načela održivog razvoja. Težimo kontinuiranom napretku u smislu primjene standarda zaštite okoliša te, uporedo s razvojem poslovanja, nastojimo smanjiti negativan utjecaj na okoliš i na taj način ispuniti definirane poslovne ciljeve. Tokom 2019. godine nastavilo se s provođenjem planova zaštite okoliša i prirodnih resursa u okviru nadležnih službi u Direkciji Društva i podružnicama te stručnim timovima koji se formiraju prema nastaloj tekućoj problematici.

Praćenje međunarodne i domaće legislative

EPBiH kontinuirano prati međunarodnu i domaću legislativu i pravovremeno izvještava o nastalim obavezama. Aktivno učestvuje i u aktivnostima Energetske zajednice u pravnoj stečevini za pitanja zaštite okoliša, kroz članstvo u radnoj grupi za okoliš EnZ.

Okolišne i vodne dozvole

U 2019. godini nastavljene su aktivnosti naložene putem važećih okolišnih i vodnih dozvola u proizvodnim i distributivnim podružnicama Društva.

Razvojni projekti

Hidroelektrana „Babino Selo“

Urađena je finalna Studija o procjeni utjecaja na okoliš za HE „Babino Selo“ - Procjena kritičnih staništa na projektnom području rijeke Vrbas planiranom za izgradnju HE „Babino Selo“. Nastavljeno je sa kontinuiranim praćenjem nivoa podzemnih voda na instaliranim pijezometrima do 31. 6. 2019. godine.

Hidroelektrane „Janjići“ i „Kovanići“

Tokom 2019. godine nastavljeno je sa kontinuiranim praćenjem nivoa

ENVIRONMENTAL PROTECTION

EPBiH and its dependent companies are determined in their responsible approach to business operations, bearing in mind environmental impact and compliance with the sustainable development principles. We are keen to continuous progress in terms of implementing environmental protection standards and, in parallel to developing our business, we strive to minimize negative impact on environment and thus to achieve our business objectives in line with these principles. In 2019, we continued implementing environment and natural resources protection plan within the framework of operations of competent services in the Directorate of the Company and in the subsidiaries, as well as in expert teams established in accordance with current issues.

International and domestic legislation follow-up

EPBiH is continuously following-up on international and domestic legislation and prepares timely reports on new obligations. It actively participates in the activities of the Energy Community and in the acquis in view of environmental protection through its membership in the Environment Group of the Energy Community.

Environmental and water permits

In 2019, activities directed in applicable environmental and water permits in production and distribution subsidiaries of the Company were continued.

Development Projects

Hydro Power Plant “Babino Selo”

The final Environmental Impact Assessment Study for HPP “Babino Selo” was prepared - Assessment of critical habitats in the project area of the Vrbas River planned for construction of HPP “Babino Selo”. Continuous monitoring of underground water levels was continued on installed piezometers until 31 June 2019.

Hydro Power Plants “Janjići” and “Kovanići”

Continuous monitoring of underground water levels was continued on

podzemnih voda na instaliranim piježometrima.

Za HE „Kovanići“ potpisan je ugovor za izradu Studije o procjeni utjecaja na okoliš.

VE „Podveležje 1“

U okviru implementacije Projekta izgradnje „VP Podveležje 1“, za projektnu komponentu LOT2, u 2019. godini je završen i odobren Environmental and Social Management Plan (ESMP), za daljnje korištenje u implementaciji projektne komponente LOT2.

Vrelvod za snabdijevanje toplotnom energijom iz TE „Kakanj“ područja do/ Sarajeva

Urađena je investiciono-tehnička dokumentacija Idejnog projekta snabdijevanja toplotnom energijom iz TE „Kakanj“ područja do/ Sarajeva.

Izrada planskih i studijskih dokumenata

U segmentu planskih i studijskih dokumenata u 2019. godini realizirani su sljedeći projekti / studije:

Razvojni projekti

- Upgrade DH Projekt (Horizont 2020) - Pобољшanje energijske efikasnosti postojećih nedovoljno efikasnih sistema daljinskog grijanja u Evropi (učesće EPBiH kao nosioca demonstracijskog slučaja pobољшanja sistema daljinskog grijanja Tuzla, sa specifičnim ciljevima smanjenja utroška primarne energije za 20%, smanjenja emisije CO₂ od 20% i uvođenja OIE u SDG Tuzla s udjelom od 20%);
- BIOFIT Projekt (Horizont 2020) - Retrofit evropske industrije uvođenjem biogoriva (učesće EPBiH u demonstracijskom slučaju potpune konverzije na biomasu opt-out Bloka 5 TE „Kakanj“ (118 MWe) i demonstracijskom slučaju uvođenja co-firing s biomasom (0-30%) na Bloku 6 u TE „Tuzla“ (224 MWe));
- Projekt kampanje mjerenja vjetroptencijala i potencijala solarne energije (ispitivanje vjetroptencijala i potencijala solarne energije na nekoliko lokaliteta širom BiH u cilju utvrđivanja pogodnih lokacija za izgradnju proizvodnih objekata na te obnovljive resurse);
- Projekt VE „Bitovnja“ (priprema investiciono-tehničke dokumentacije, sa ispitivanjem nultog stanja faune ptica i šišmiša, kao i Studijom utjecaja buduće VE „Bitovnja“ na okoliš i društvo);
- ELEMEND projekt – nastavni programi iz oblasti pametnih mreža, koji uključuju posebno oblasti različitih tehnologija obnovljivih izvora energije, integracije obnovljivih izvora u elektroenergetsku mrežu, energetska efikasnost, energetski menadžment i dr. (učesće EPBiH kao industrijskog partnera koji treba osigurati da nastavni programi odgovaraju realnim potrebama industrije);
- Razvojni projekt elektromobilnosti u EPBiH – direktni doprinos smanjenju štetnih

installed piezometers during 2019.

For HPP „Kovanići“, a contract was signed for the preparation of the Environmental Impact Assessment Study.

WPP „Podveležje 1“

As part of the implementation of the WPP „Podveležje 1“ Construction Project, for the LOT2 project component, in 2019 the Environmental and Social Management Plan (ESMP) was completed and approved, for further use in the implementation of the LOT2 project component.

Hot-water pipeline for heating energy supply of Area to/including Sarajevo from TPP „Kakanj“

Investment and technical documentation of the „Preliminary Design of thermal energy supply from TPP Kakanj to/including Sarajevo, was prepared.

Preparation of Planning and Study Documents

In the segment of planning and study documents in 2019, the following projects/ studies were implemented:

Development Projects

- Upgrade DH Projekt (Horizont 2020) - Improving energy efficiency of existing under-efficient district heating systems in Europe (participation of EPBiH as the bearer of a demonstration case of improvement of district heating systems Tuzla, with specific goals of reducing primary energy consumption by 20%, reducing CO₂ emissions by 20% and the introduction of RES in DHS Tuzla with a share of 20%);
- BIOFIT Projekt (Horizont 2020) - Retrofit of the European industry by introducing biofuels (participation of EPBiH in the demonstration case of full conversion to biomass of opt-outed Unit 5 of TPP „Kakanj“ (118 MWe) and demonstration case of introducing co-firing with biomass (0-30%) on Unit 6 in TPP „Tuzla“ (224 MWe));
- Project of campaign for wind- and solar power potential measurement (examining wind power potential and solar power potential in several locations across Bosnia and Herzegovina with the aim of identifying suitable locations for the construction of production facilities on these renewable resources);
- The WPP „Bitovnja“ Project (preparation of investment and technical documentation, with Baseline study of bird and bat fauna, as well as the Study of Environmental and Social Impact of the future WPP „Bitovnja“);
- ELEMEND project - smart network curricula, which include special areas of different renewable energy technologies, integration of renewable sources into the power grid, energy efficiency, energy management, etc. (participation of EPBiH as an industrial partner to ensure that curricula match realistic needs of the industry);
- Electromobility Development Project in EPBiH - direct contribution

emisija u zrak uslijed korištenja električnih vozila umjesto vozila sa unutrašnjim sagorijevanjem, a za što je preduslov izgradnja infrastrukture za punjenje električnih vozila

Sistem upravljanja okolišem

TE „Tuzla“

Provedeni interni auditi IMS u 2019. godini pokazali su manju potrebu za korektivnim akcijama i poboljšanjima u pojedinim procesima.

Proveden je kontrolni audit Integriranog sistema poslovnog upravljanja kvalitetom i okolišem, a prema zahtjevima standarda ISO 9001:2015 i ISO 14001:2015.

TE „Kakanj“

Termoelektrana „Kakanj“ posjeduje važeći certifikat o usklađenosti Sistema upravljanja okolišem sa zahtjevima standarda BAS EN ISO 14001:2017.

Usklađivanje Sistema upravljanja okolišem sa zahtjevima novog standarda je podrazumijevalo izmjenu postojećih dokumenata Sistema upravljanja okolišem i održavanje i postizanje sljedećih principa:

- da se zaposlenici kontinuirano upoznavaju sa značajem ispunjavanja okolišnih zakonskih zahtjeva;
- da je definirana i objavljena okolišna politika;
- da su definirani i objavljeni okolišni ciljevi.

HE na Neretvi

U 2019. godini urađen je Program poboljšanja integriranog sistema upravljanja (ISU), na osnovu kojeg su provedene sljedeće aktivnosti:

- izvršeno je preispitivanje dokumenata ISU-a (Management review) od strane rukovodstva;
- proveden je Interni audit u svim pogonima i sektorima;
- izvršena je analiza okolišnih aspekata koji se odnose na proces proizvodnje električne energije u pogonima / sektorima;
- ocjena usklađenosti rada sa zakonskim i drugim okolišnim zahtjevima;
- urađeni su okolišni i ciljevi kvaliteta;
- urađen je Izvještaj 2. nadzornog audita Integriranog sistema upravljanja, a prema zahtjevima standarda ISO 9001:2015 i ISO 14001:2015.

to the reduction of harmful emissions into the air due to the use of electric vehicles instead of internal combustion vehicles, for which the precondition is the construction of infrastructure for charging electric vehicles

Environmental Management System

TPP „Tuzla“

IMS internal audits conducted in 2019 showed a smaller need for corrective actions and improvements in individual processes.

The control audit of the Integrated Quality and Environment Business Management System was carried out according to the requirements of ISO 9001:2015 and ISO 14001:2015.

TPP „Kakanj“

Thermal Power Plant „Kakanj“ has a valid certificate of compliance of the Environmental Management System with the requirements of BAS EN ISO 14001:2017.

Harmonization of the existing Environmental Management System with the requirements of the new standard implies the modification of existing documents of the Environmental Management System and maintenance and achievement of the following principles:

- *that the employees are constantly acquainted with the importance of meeting environmental legal requirements;*
- *that the environmental policy has been defined and published;*
- *that the environmental goals have been defined and published.*

HPPs on the r. Neretva

The Program to improve the Integrated Management System (IMS) was developed in 2019, on the basis of which the following activities were carried out:

- *the ISU documents (Management review) were reviewed by the management;*
- *Internal audit was carried out in all plants and sectors;*
- *performed analysis of environmental aspects related to the process of electricity generation in plants / sectors;*
- *assessment of conformity of work with legal and other environmental requirements;*
- *environmental goals and quality goals have been developed;*
- *The Report on 2nd Supervisory Audit of the Integrated Management System was produced, according to the requirements of ISO 9001:2015 and ISO 14001:2015.*

ED Tuzla

U 2019. godini izvršen je nadzorni audit Sistema upravljanja okolišem BAS EN ISO 14001, uz audit Sistema prema ISO 9001, koji zajedno čine Integrirani sistem upravljanja - ISU. Podružnica kontinuirano radi na poboljšanju odnosa prema okolišu, kroz sistemski pristup upravljanja otpadom, kontrolu okolišnih aspekata, identifikaciju i primjenu zakonske regulative, ispunjenje postavljenih okolišnih ciljeva, te korektivnim mjerama.

Upravljanje okolišem, koje je prepoznato kao zaseban proces, vrednovano je u smislu određivanja konteksta organizacije i potencijalnih rizika te su razmatrane mjere za identificirane rizike i prilike.

ED Tuzla

The Supervisory Audit of Environmental Management System BAS EN ISO 14001 was completed in 2019, with an audit of the System according to ISO 9001, which together constitute the Integrated Management System - IMS. The Subsidiary continuously works to improve the relationship with the environment, through a systematic approach to waste management, control of environmental aspects, identification and implementation of legal regulations, fulfilment of set environmental objectives, and corrective measures.

Environmental management that has been recognized as a separate process is valued in terms of determining the organization's context and possible risks, and the measures for identified risks and opportunities have been addressed.

REZIME

U 2019. godini EPBiH je ostvarila ukupan prihod u iznosu milijardu i 62 miliona KM i 24,34 miliona KM dobiti prije oporezivanja. Imajući u vidu ostvarenu dobit, urednost i pouzdanost u snabdijevanju kupaca električnom energijom i povećanje tržišnog udjela, poslovanje EPBiH u 2019. godini bilo je uspješno.

Najznačajnije odrednice poslovanja EPBiH u 2019. godini:

- veća proizvodnja hidroelektrana od planirane i veće učešće hidroenergije u ukupnoj proizvodnji električne energije;
- aktivno učešće na regionalnom tržištu električne energije i tržištu pomoćnih usluga u BiH, uz ostvarenje rekordnih pozitivnih efekata po osnovu kupoprodaje električne energije;
- povratak ranijih velikih kupaca električne energije na snabdijevanje od strane EPBiH;
- nastavak trenda smanjenja distributivnih gubitaka;
- veća potrošnja električne energije u odnosu na planiranu;
- likvidno poslovanje i podrška likvidnosti rudnika;
- početak fizičke realizacije projekta izgradnje Bloka 7 u TE „Tuzla“;
- nastavak izgradnje VE „Podveležje“.

SUMMARY

In 2019, EPBiH generated total revenue in the amount of 1 billion and 62 million KM and 24.34 million KM of income before tax. Having in mind the realized income, orderliness and reliability in supplying customers with electricity and increasing the market share, the business of EPBiH in 2019 was successful.

The most important characteristics of EPBiH's operating in 2019:

- *higher-than-planned production of hydropower plants and higher share of hydropower in total electricity production;*
- *active participation in the regional electricity market and the market of ancillary services in BiH, with the achievement of record positive effects based on the electricity purchase and sale;*
- *return of former large electricity customers to supply by EPBiH;*
- *continuation of the trend of reducing distribution losses;*
- *higher electricity consumption than planned;*
- *liquid operations and coal mines' liquidity support;*
- *the beginning of the physical implementation of the project for the construction of Unit 7 in TPP "Tuzla";*
- *continuation of construction of WPP "Podveležje".*



Povoljna okolnost poslovanja za EPBiH bila je tržišna situacija koju karakterizira porast prosječnih prodajnih cijena kod tržišnog snabdijevanja i djelatnosti Trgovine, te povećani efekti kupoprodaje električne energije.

Uprkos tome što nije u potpunosti realizirala planirane investicije, obimom realiziranih ulaganja u iznosu 127 miliona KM u vlastite djelatnosti i 22 miliona KM ulaganja u zavisna društva rudnike uglja, EPBiH je u 2019. godini zadržala poziciju jednog od najvećih investitora u Bosni i Hercegovini.

Pored ulaganja u djelatnostima Distribucije i Proizvodnje, realizirane su nove investicije putem dokapitalizacije u zavisna društva rudnike u sastavu Koncerna EPBiH. Značajan broj projekata je u fazi realizacije, gdje se očekuju isporuke i instalacije opreme u skladu sa zaključenim ugovorima. U zavisnim društvima rudnicima Koncerna EPBiH započeti su brojni postupci nabavke, te se može očekivati da u 2020. godini i narednih godina iznosi dokapitalizacije budu značajno veći.

Favourable business circumstance for EPBiH was the market situation characterized by an increase in average sales prices in the market supply and Trade activity, and increased effects of the electricity purchase and sale.

Despite the fact that it did not fully realize the planned investments, with the volume of realized investments in the amount of 127 million BAM in its own activities and 22 million KM of investments in subsidiaries - coal mines, EPBiH retained the position of one of the largest investors in Bosnia and Herzegovina in 2019.

In addition to investments in Distribution and Production activities, new investments were made through recapitalization in subsidiaries - coal mines within the EPBiH Concern. A significant number of projects are in the implementation phase, where deliveries and installation of equipment are expected in accordance with the concluded contracts. Numerous procurement procedures have been initiated in the subsidiaries - coal mines of the EPBiH Concern, and it can be expected that in 2020 and in the following years the amounts of recapitalization will be significantly higher.

2019



GODIŠNJI IZVJEŠTAJ O POSLOVANJU

ANNUAL BUSINESS REPORT

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