



 **yavuzlar
grup**

Moliveys

Minero

 **Gödoğuş**

 **MASES
ENERJİ**

 **ORPİR**
ORMAN ÜRÜNLERİ



Olive, as a gift to mankind, is still a discoverable holly plant since nothing is to be prodigalized from leaf to wood, from fruit to oil, even the ashes.

Olive still contains some oil in the oil cake after being extrated the most water and oil of it at oil plants physically. But this oil is not be called as olive oil due to the physical change and conditions during olive paste process. So it is called as Olive Pomace Oil.

In our country, Olive Pomace Oil, used in making soap only for years, has been offered recently as Refined Olive Pomace Oil, regarding to the changes made in the relevant food regulations.

The most important speciality that differs from other vegetable oils are as follows;

Since Refined Olive Pomace Oil gets heating process, either during first production and during refining process, Ingrediants that cause burning of olive oil burn completely and decomposed. Because there is no substance to burn inside, it becomes an oil enduring higher heats. That is, we may describe it as the most healthy oil at frying foods.

The other speciality is not to be classified as olive oil even though it has olive oil specialities basically. For that reason the price is lower than olive oil, and when comparing to other vegetable oils, it becomes more attractive than olive oil in our countries conditions. It is an essential oil in frying foods especially in Japan, USA, and most of the European countries.

Refined Pomace Olive Oil not only prevents environmental pollution but has an important role for development in olive industry also.

Olive Paste Factories not only give waste product back to the economy, but also they change olive paste to olive cake as a solid fuel which can be used at home and in industry, by removing oil in it, which might make environmental pollution. The resulting value reaches to olive producers and final consumers.

As a result; Refined Pomace Olive Oil is not an opponent, but it proves its superiority for healt to the other vegetable oils (corn, sunflower, cotton, soybean, canola etc...).

Refined Pomace Olive Oil is an olive originally oil; which might be a good alternative for Riviera type Olive Oils, but will never be called as Olive Oil.





ABOUT US

Yavuzlar Group is a family company, covering DOGUS and ORPIR Olive Cake factories in addition to Olive Pomace Refinery, Estating, and Electrical Household Appliances' Trading Companies.

DOGUS PIRINA A.S. at Ayvalik has the processing capacity of 550 tons/day pomace olive. We produce 200 - 220 tons/day dry olive cake and 20 - 25 tons/day Olive Pomace Oil at DOGUS.

ORPIR PIRINA A.S. at Ovacik/Bergama processing capacity of 700 tons/day pomace olive. We produce 250-280 tons/day dry olive cake and 20 - 25 tons/day olive pomace oil at ORPIR.

Both factories are the Turkey's biggest olive paste processing establishments at Ayvalik and Bergama with the 1250 tons/day olive cake processing capacity. Totally 110 tons olive pomace oil has been refined daily at Ovacik/Bergama; chemically 50 tons and physically 60 tons.

Refined olive pomace oil is the most efficacious especially for fryings. Triglyceride content of refined olive pomace oil resists oxidations and disruption of frying temperatures due to it's olive originality. Although agricultural origin of all seed oils has risk for GMO (Genetically Modified Organism) there is no risk at pomace olive oil due to it's olive originality. Yet all seed oils are imported, pomace olive oil is domestic though. We think refined pomace olive oil is a better selection than other seed oils with those specialites.

Our prime goal is to reach to deserved value for olive pomace oil in both nationally and internationally with our brands Moliveys, Minero, Emseoil, Yaoil and Emirserra.

We are in the activity retail trading of white goods with YAVUZLAR Electrical Household in Balikesir. Our company is Balikesir BOSCH Central Dealer. We conduct our constructive activities with Yavuzlar Const. A.S.

Our priority is to respect our natural habitats by efective use of clean and renewable energy sources. So, we decide to produce "Electrical Energy" by using "olive cake" which will be the first in Turkish Energy Sector. First plant's installed power will be 11.6 MW, so, the second will be same.





ABOUT OLIVE PASTE

Olive Cake

It is the least processed of olive paste. Olive paste becomes solid fuel through this process with %3 ash, % 10 humid (appx.) and less than %1 oil in after having been dried and removed oil with hexan solution. Olive Cake is generally sold by poured or in 10 – 35 kg bags. It can be used additioanal fuel in almost all kind of charcoal heating boiler. There are some self-feeding olive cake boilers too. Olive Cake has the same heat degree like oak and coniferous plants; but provides cleaner combustion due to the least humidity. It is proper for dry solid fuel burning furnace; no harm to burning pot, and no block the feeding spirals.

Olive Cake Stone

Olive paste has seperated from each other by 4mm sieve; olive cake and cake stone. As, olive cake is used for olive cake pellete; olive cake stone, consisting of core fractures, has been bagged and sold as solid fuel,too. The speciality of olive cake stone is to be totally dust free and clean fuel. Olive Cake Stone has less humidity regarding olive cake. Humidity is generally %5-7. It is very efficient fuel with the 5.000 kCal/kg heating level. Ash is less than %2, which means less than 20 kgs ash remains from 1.000kgs olive cake stone. It can be used in all kind of solid fuel furnaces and stoves, seperately or by mixing with other fuels. 4-6m³ air is needed for 1 kg olive cake stone's burning, on the other hand, 1kg lignite uses approximately 20 m³ air. So, olive cake stone is one of the most clean and efficient fuel type for heating.

Olive Cake Pellete

Olive cake has been processed in different shaped pelletes by pellete machine. It is generally produced cylindrical shaped in 1-3 cm length and 6 – 10 mm diameter. It has less humid, and well-matched to solid fuel heating systems regarding olive cake. Due to the evaporation of some combustible gas inside, Olive Cake's heating productivity decreases, when used in charcoal designed furnaces, since it's volatile substance percentage is high. It is advisable to use low burning rated Olive Cake Pellete, if it is not used secondary combustion chamber (systems, igniting volatile gases again in second chamber). Although it is not widespread in Turkey, Olive Cake can be used in briquette-shape in fireplaces as fuel by mixing with other different biomasses in Italy and Spain. 1 kg Olive Cake briquette may burn efficiently for 1 hour.



DOGUS PIRINA A.S.

DOGUS PIRINA A.S.; established by 40 Bay Region Olive Producers in 1980 for the aim of benefiting own products; had performed activations at the same area until 1996. Our company's start-up goal was to use own olive paste. Although our company's shareholders diminished due to the capital increase after 1996, we continued our investments regarding to the technological developments.

We have been processed approximately 200 - 220 tons/day olive cake and 20 - 25 tons/day pomace olive oil from 550 tons of olive pomace paste in 77.000 m² area, located at Nikita Region in Ayvalik on the Canakkale - Izmir highway.

We have 33.000 m² open concrete storage areas.





ORPIR PIRINA A.S.

Due to the special requirements; after buying an establishment at Bergama / Ovacik, we began to produce in 29.000 m² area including 10.000 m² closed area at that facility through additional investments.

We have been processed approximately 280 tons olive cake and 25 -30 tons pomace olive oil from 700 tons of olive pomace paste daily.

We have 35.000 m² open concrete storage areas.





ORPIR REFINERY

We have been refining chemically 50tons/day, physically 60 tons/day and totally 110 tons/day refined olive pomace oil in our refinery at Bergama/Ovacik from the olive cake; produced in our both companies, DOGUS (Ayvalik) and ORPIR (Bergama).

Refined olive pomace oil is the most efficacious especially for fryings. Triglyceride ingredient of refined olive pomace oil endures oxidations and disruption of frying temperatures due to it's olive originality. Although agricultural origin of all seed oils have risk for GMO (Genetically Modified Organism) there is no risk at pomace olive oil due to it's olive originality. Yet all seed oils are imported, pomace olive oil is domestic though. We think refined pomace oil is a better selection than other seed oils due to above specialites.

Our prime goal is to reach to deserved value for olive pomace oil in both nationally and internationally with our brands Moliveys, Minero, Emseoil, Yaoil and Emirsera.





MASES ENERGY

Our priority is respecting our natural habitats by effective use of clean and renewable energy sources. So, we decide to produce “Electrical Energy” by using “olive cake” which will be the first in Turkish energy sector. First plant’s installed power will be 11.6 MW, so, the second will be same.





PRODUCTS

Olive Cake (BIOMASS)

It is an ecological fuel, low ash and no cinders or clinkers. It is not necessary to stir up to get ash. It gives very high yield at industrial and stokered furnaces.



Olive Cake (BIOMASS)

Specialities:

Low Heating Value : 3845 KCAL/KG. (Dryed 4507 KCAL / KG.)

High Heating Value : 4142 KCAL/KG. (Dryed 4762 KCAL / KG.)

Humidity % : 10 (MAX. 15)

Oil % : 1 (MAX. 1,5)

Ash % : 3



PRODUCTS

Olive Cake Stone

It covers the seedy section of olive after removing pulpy parts of olive paste by electing and removing the pulpy parts of olive cake.

Olive Cake Stone is an ecological fuel and it has higher calorie, less humidity and ash than olive cake.



Olive Cake Stone

Specialities:

Low Heating Value : 4850 KCAL/KG. (Dryed 5000 KCAL / KG.)

High Heating Value : 5200 KCAL/KG. (Dryed 5500 KCAL / KG.)

Humidity % : 10 (MAX. 15)

Oil % : 0,7 (MAX. 1,5)

Ash % : 3



PRODUCTS

Olive Cake Pellete

It is produced by squeezing and pressing olive cake at special machines. It is 6 or 10 mm diameter cylindrical. It has less humidity than olive cake, and no dust.



Olive Cake Pellete

Specialities:

Low Heating Value : 4300 KCAL/KG. (Dried 5000 KCAL / KG.)

High Heating Value : 4700 KCAL/KG. (Dried 5500 KCAL / KG.)

Humidity % : 10 (MAX. 15)

Oil % : 1,2 (MAX. 1,5)

Ash % : 4

We produce crude olive pomace oil for refineries in order to make soap and oil.





REFINED OLIVE POMACE OIL

Nutrition Facts

Serving size 1 tbsp (15 ml)

Amount per Serving

% Daily
Values (*)

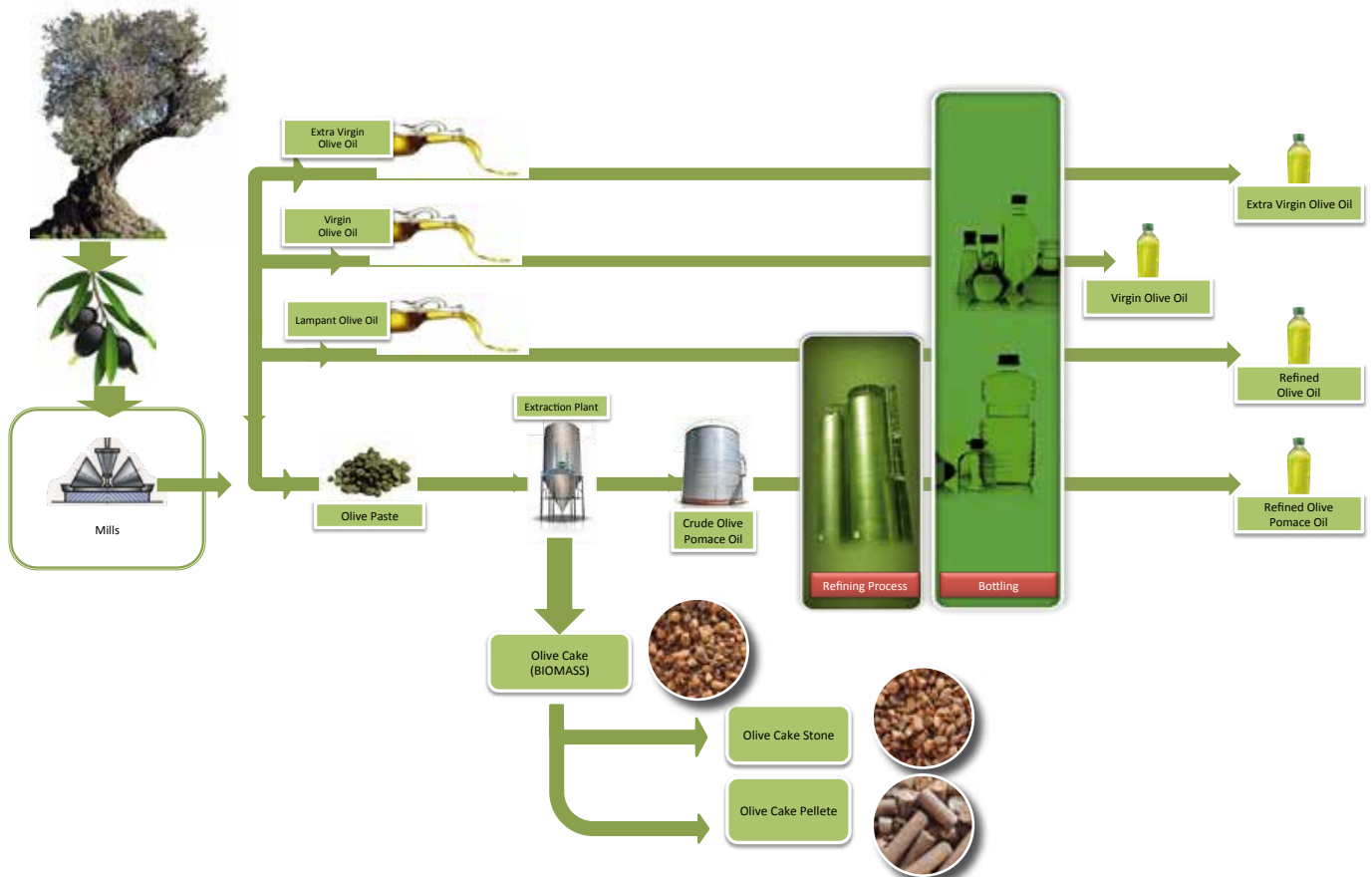
Energy	124	kcal	
Total Fat	14	g	22%
Saturated Fat	2	g	10%
Monounsaturated Fat	10	g	
Polyunsaturated Fat	2	g	
Trans Fat	0	g	
Cholesterol	0	mg	
Carbohydrate	0	g	
Dietary Fiber	0	g	
Protein	0	g	
Sodium	0	mg	

Not a significant source of sugars, starch, salt, vitamin A, vitamin C and minerals.





PRODUCTION PROCESS



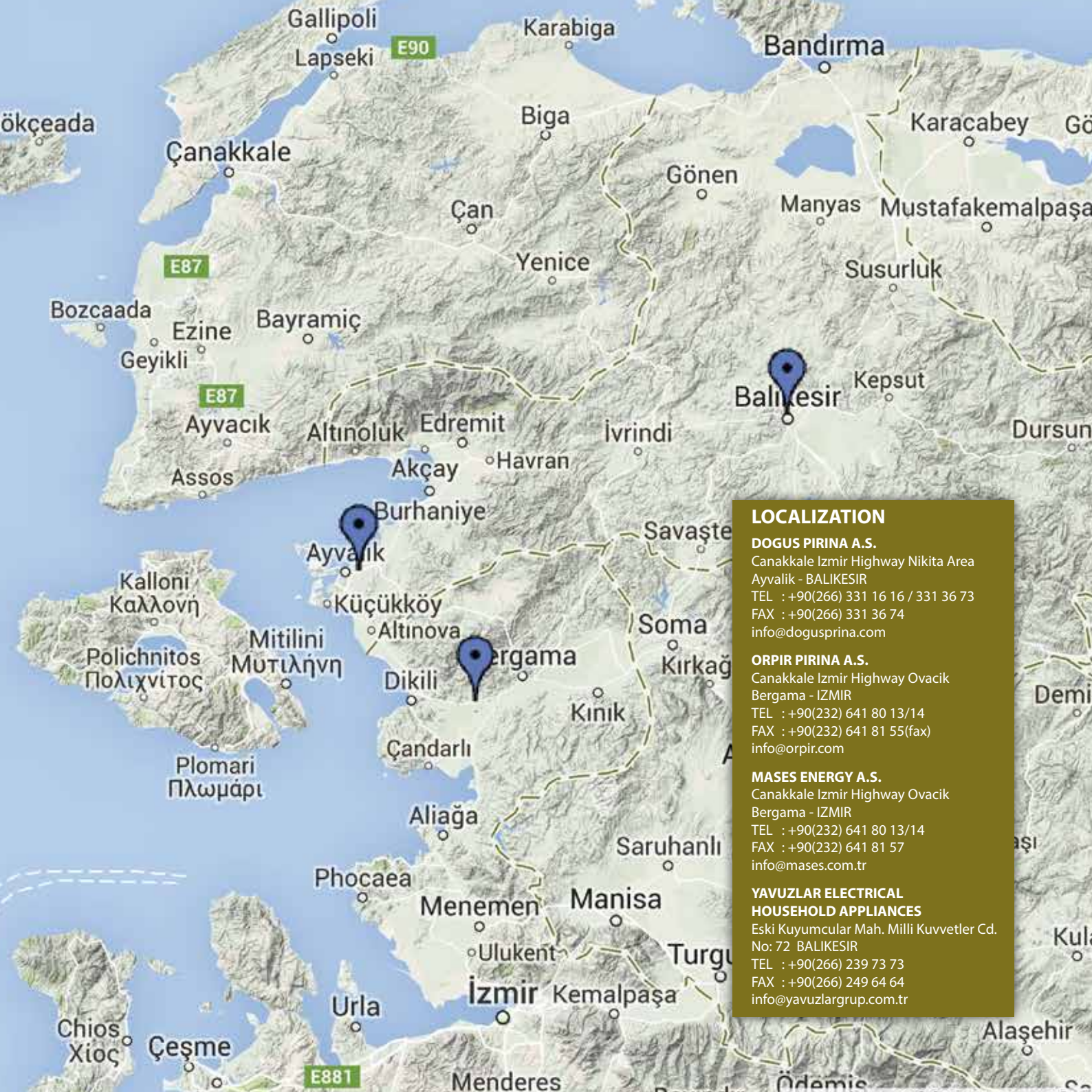


COMPARISON OF DIFFERENT FUELS FOR 1000 KCAL ENERGY REQUIREMENT FOR HOUSES

(Tax included unit price at 4 March 2015)



No	Fuel Type		Company	Fuel Low Heat Value	Unit Price (04.03.2015)	Productivity (appx.)	TL/1000 kcal	Fuel Cost Index (regarding cheapest)		Unit Price (28.03.2015)	04.03.2015 28.03.2015	
											Unit Price Change	Change Order
1		Olive Cake	DOGUS-ORPIR	4000 Kcal/kg	0,240000 TL/Kg	87%	0,240000 X 1000 4.000 X 0,87	0,068 96	66	0,200 TL/Kg	15,0	
2		Olive Cake Pellete	DOGUS-ORPIR	4500 Kcal/kg	0,260000 TL/Kg	87%	0,260000 x 1000 4500 x 0,87	0,066 411	66	0,230 TL/Kg	13,0	
3		Olive Cake Stone	DOGUS-ORPIR	5000 Kcal/kg	0,320000 TL/Kg	87%	0,320000 x 1000 5000 x 0,87	0,073 563	73	0,270 TL/Kg	18,0	
4	(CE)	Natural Gas House	Eskisehir ESGAZ	8250 kcal/m³	1,09782008 TL/m³	107%	1,097820 x 1000 8250 x 1,07	0,124 364	100	1,012939 TL/m³	8,4%	8
5	(CE)	Natural Gas House	Bursa BURSAGAZ	8250 kcal/m³	1,114089 TL/m³	107%	1,114089 x 1000 8250 x 1,07	0,126 207	101	1,114089 x 1000 8250 x 1,07 TL/m³	9,0%	10
6	(CE)	Natural Gas House	Kocaeli IZGAZ GDF SUEZ	8250 kcal/m³	1,16272008 TL/m³	107%	1,162720 x 1000 8250 x 1,07	0,131 716	106	1,077425 TL/m³	7,9%	6
7	(CE)	Natural Gas House	Istanbul IGDAŞ	8250 kcal/m³	1,1818113 TL/m³	107%	1,181811 x 1000 8250 x 1,07	0,133 878	108	1,094255 TL/m³	8,0%	7
8	(CE)	Natural Gas House	Ankara BASKENTGAZ	8250 kcal/m³	1,186481 TL/m³	107%	1,186481 x 1000 8250 x 1,07	0,134 407	108	1,092508 TL/m³	8,6%	9
9		Domestic Lignite +18 mm washed/bagged	Soma Kırakdere Manisa - ELI	4731 kcal/kg	0,52156 TL/kg	65%	0,521560 x 1000 4731 x 0,65	0,169 605	136	0,46374 TL/kg	12,5%	12
10		Domestic Lignite +20 mm washed/bagged	Soma Kırakdere Manisa - ELI	5046 kcal/kg	0,586755 TL/kg	65%	0,586755 x 1000 5046 x 0,65	0,178 894	144	0,51212 TL/kg	14,6%	13
11		Imported Siberian Coal Orange Shaped	Istanbul HAKAN COAL	7000 kcal/kg	0,840000 TL/kg	65%	0,840000 x 1000 7.000 x 0,65	0,184 615	148	0,840000 TL/kg	0,0%	5
12		Fuel-oil No: 4 Heater Fuel	Istanbul European SHELL TURKEY	9875 kcal/kg	2,160000 TL/kg	80%	2,160000 x 1000 9.875 x 0,80	0,273 418	220	2,870000 TL/kg	-24,7%	1
13	(CE)	Bulk Gas House LPG - Propan	Istanbul IPRAGAZ-AYGAZ	11100 kcal/kg	5,504187TL/kg	106%	5,504187 x 1000 11.100 x 1,06	0,467 804	376	5,925942 TL/kg	-7,1%	4
14		Electricity House	Turkey TEDAS	860 kcal/kWh	0,404635 TL/kWh	99%	0,404635 x 1000 860 x 0,99	0,475 258	382	0,371263 TL/kWh	9,0%	10
15		Electricity Commercial	Turkey TEDAS	11100 kcal/kg	0,408043 TL/kg	99%	0,408043 x 1000 860 x 0,99	0,479 261	385	0,373586 TL/kWh	9,2%	11
16		Diesel	Istanbul European SHELL TURKEY	11100 kcal/kg	4,532544379 TL/kg	84%	4,532544 x 1000 10.256 x 0,84	0,526 120	423	5,230769 TL/kg	-13,3%	2
17		Bulk Gas House LPG - Propan	Istanbul IPRAGAZ-AYGAZ	10256 kcal/kg	5,504187 TL/kg	92%	5,504187 x 1000 11.100 x 0,92	0,538 992	433	5,925942 TL/kg	-7,1%	4
18		LPG 12 kg House Istanbul	Istanbul IPRAGAZ-AYGAZ	11000 kcal/kg	5,7916667 TL/kg	90%	5,791667 x 1000 11.000 x 0,90	0,585 017	470	6,333334 TL/kg	-8,6%	3
Not: (CE) For condensed equipments.				T.C. Central Bank Efektive Sales Price							YEARLY CHANGE RATE	
EXCHANGE RATE				4 MARCH 2015			4 MARCH 2014					
USD				2,5493 TL			2,2192 TL					
EURO				2,8392 TL			3,0541 TL					



LOCALIZATION

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