Investors’ Workshop: Development of Thermal Springs in Greece

Monday 26th February 2018, Athens, Greece

Investment Opportunities

With the friendly support of the German Embassy
Portfolio
Thermal Springs

Thermal Springs
- Xenia Hotel & Spa Kythnos - Cyclades islands
- Galini Hotel & Spa Kamena Vourla - Fthiotida
- Koniavitis Camping Kamena Vourla - Fthiotida
- Hotel & Spa Thermopylae - Fthiotida
- Hydrotherapy Center Aedipsos - Evia island
- Hotel & Spa Ypati - Fthiotida
- Hotel & Spa Platystomo - Fthiotida
- Lesvos Thermal Springs
  - Therma Healing water and spa
  - Eftalou Baths
  - Polichnitos Hot Springs
  - Agios Ioannis Hot Springs at Lisvori
Thermal Springs
Why thermal springs in Greece?

Greek thermal water composition provides a unique variety of healing properties
Hellenic natural resources spread all over Greece are recommended for both therapeutic and preventative purposes, having beneficial effect in several diseases related to musculo-skeletal system, rheumatism, gynecological ailments etc

Proximity to areas of great historical interest
Thermopylae monument of Leonidas, Byzantine Museum of Fthiotida, ancient ruins and castles

Proximity to exquisite natural sceneries
Both seaside and mountainous landscapes of unique natural beauty

Potential to grow into holistic wellness centers
Development of natural formulas/cosmetics from a rich variety of Greek herbs, in combination with Mediterranean diet

Potential for many complimentary outdoor activities
Skiing in Parnassos and Karpenisi ski areas, trekking, hiking etc
**Thermal Springs**

**Why thermal springs in Greece?**

**Rehabilitation enhanced with thalassotherapy**

The proximity of all Greek thermal springs to the sea offers the possibility of combining thermal healing methods with thalassotherapy.

**Easy extraction of thermal water**

The hot springs in Greece gush to the surface, allowing them to be easily exploited.

**Rehabilitation enhanced with climatotherapy**

Greece is one of the privileged countries that nature has endowed with rich scenery changes and Mediterranean climate, which is characterized by dry, warm-hot and sunny summers and mild and wet winter. Residence in this climate during the summer can have beneficial effect on asthma, allergies, tuberculosis, bronchitis, pneumonia, cardiovascular and neurological diseases patients.

**Greece is considered to be rich in geothermal resources,**

offering a promising potential for geothermal water utilization for heating applications alongside patients’ rehabilitation purposes.
Thermal Springs
Xenia Hotel & Spa Kythnos – Cyclades islands

• **History**
  It is said that the construction of the hydrotherapy center began between 1836 – 1845, motivated by the personal interest of Queen Amalia. Between 1871 – 1891 the building was modified / supplemented based on plans of the architect Ernst Ziller. The latest modifications and additions are considered to have taken place during 1964 – 1970.

• **Therapeutic Properties:**
  Recommended for treatment of musculoskeletal and nervous system diseases, skin and gynaecological ailments.

• **Temperature - Characteristics**
  Superheated 40.5 – 52.5 °C
  Cl - Na - K – Br – Sr2 – B – Li – F – CO2 - H2S
  Mineral – Supertonic Water

• The hot springs of Kythnos were among the first to have emerged in Greece, including the spring “Aghioi Anargyroi”, which is a saline hot spring and is situated in the hydrotherapy center, and the spring “Kakavos” which is situated 50 meters away from the first one.

• A complex containing one hotel with 46 rooms (96 beds), a hydrotherapy center with 14 baths, 1 hydromassage and auxiliary spaces is located inside the property.

• Access from mainland by ferry from the ports of Piraeus and Lavrion.
• **History**
  Popular Beach destination in the 60s & 70s in Greece.

• **Therapeutic Properties:**
  Recommended for treatment of musculoskeletal - nervous system - vascular diseases, skin ailments.

• **Temperature - Characteristics**
  Superheated 42 °C
  Cl – Na – B – Ca – HCO3 – CO2
  Mineral - Hypotonic Water

• **Beachfront property.**

• **Located at the foot of mountain Kallidromo, in proximity to areas of historical interest and natural beauty.**

• **In proximity to the city of Lamia (37 km) and at a distance of 166 km from Athens.**

• **Three hotels, two hydrotherapy centers (spa) and supporting facilities are located inside the property.**

• **Two hotels and one spa are characterized as listed.**

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**General Info**

<table>
<thead>
<tr>
<th>Prefecture</th>
<th>Fthiotida</th>
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</thead>
<tbody>
<tr>
<td>Municipality</td>
<td>Molos - Ag. Konstantinos</td>
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<tr>
<td>Landplot</td>
<td>474,827 sqm</td>
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<tr>
<td>Built area</td>
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<tr>
<td>Tentative development concept</td>
<td>Health &amp; Spa Resort – Wellness offers</td>
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Thermal Springs
Koniavitis Camping Kamena Vourla – Fthiotida

- **History**
  Popular Beach Destination in the 60s & 70s in Greece.

- **Therapeutic Properties:**
  Recommended for treatment of musculoskeletal and nervous system diseases, skin and gynecological ailments, venous diseases.

- **Temperature - Characteristics**
  Tepid 35°C
  Cl - Na – Ca – HCO3 – SiO2
  Sr – B – F-Li – H2S – C02
  Hypertonic Water

- **General Info**
  
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<td>Health &amp; Spa Resort – Golf, Recreation, Marina, Residential</td>
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- Beachfront property.
- Located at the foot of mountain Kallidromo, in proximity to areas of historical interest and natural beauty.
- In proximity to the city of Lamia (37 km) and at a distance of 166 km from Athens.
Thermal Springs
Hotel & Spa Thermopylae – Fthiotida

• **History**
  Area with great historical interest, where the famous battle of Thermopylae between the Greeks and Persians took place in 480 BC. According to Greek mythology, Hephaestus, at the request of goddess Athena, created springs for Hercules to wash and rest following the completion of his labors.

• **Therapeutic Properties:**
  Recommended for treatment of musculoskeletal and nervous system diseases, skin – gynecological - respiratory ailments.

• **Temperature - Characteristics**
  Superheated 41.1 °C
  Cl - Na - Ca - HCO3 - K
  SiO2 - Sr - B - Li - H2S - CO2
  Hypertonic Water

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<td>Municipality</td>
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<td>Tourism, Leisure,</td>
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<tr>
<td>concept</td>
<td>Historical, Thermal-</td>
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<td></td>
<td>Bath Resort, Health &amp; Recreation</td>
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• Located in an area of great natural beauty, at the foot of mountain Kallidromo, next to very important historical sites.

• In proximity to the city of Lamia (15 km) and at a distance of 185 km from Athens.

• Two hotels, one hydrotherapy center (spa) and numerous supporting facilities are located inside the property but, currently, are not operating.
Thermal Springs
Hydrotherapy Center Aedipsos – Evia island

• **History**
  The springs are known since the days of Aristotle and their use dates back to the 4th century BC. The springs were very famous during the Roman period. In modern Greek history, Queen Olga, the wife of King George A, was particularly fond of Aedipsos town and in 1907 stayed at the “Thermae Sylla” hotel owned by the Tombazi family.

• **Therapeutic Properties:**
  Recommended for treatment of rheumatism, arthritic deformations, ankylosing spondylitis, nervous disorders, sciatica, lumbago, post-traumatic deformations and gynecological ailments.

• **Temperature - Characteristics**
  Superheated 72 °C
  Cl – Ca – F -Na – Fe - K – Sr
  SiO2 - B - Li CO2 – H2S
  Mineral – Supertonic Water

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**General Info**

- **Prefecture:** Sterea Ellada & Evia
- **Municipality:** Istiea, Aedipsos
- **Landplot:** 22,113 sqm
- **Built area:** 9,396 sqm
- **Tentative Development concept:** Spa – Recreation, Modern Health Tourism

- Located in “Loutra of Aedipsos” area, Istiea - Aedipsos Municipality
- The old hydrotherapy center “Aghioi Anargyroi” (built before 1950), the new hydrotherapy center complex (1985), biological treatment facilities and other auxiliary buildings, exist inside the property.
- The old hydrotherapy center has been characterized as modern listed monument. There are 2 thermal springs in the property and 3 in neighboring areas.
- Access from mainland, either via Chalkida (191 km from Athens) or by ferry from the port of Arkitsa (156 km from Athens).
Thermal Springs
Hotel & Spa Ypati – Fthiotida

• **History**
The spring is known since ancient times and its therapeutic value is unique compared to other Greek springs.

• **Therapeutic Properties:**
Recommended for treatment of musculoskeletal - nervous system - cardiovascular diseases, skin and gynecological ailments.

• **Temperature - Characteristics**
Tepid 33.2 °C
Cl - HCO3 - Na - Ca - K -Sr
SiO2 - Br - B - Li- CO2 – H2S
Mineral – Hypertonic Water

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<td>Tentative Development concept</td>
<td>Tourism-Leisure, Healthcare buildings</td>
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• Located at the foot of Oiti mountain, within the homonymous town of Loutra Ypatis.

• Three listed hotel buildings, one hydrotherapy center (spa) and numerous supporting facilities included.

• In proximity to the city of Lamia (18 km) and at a distance of 230km from Athens.
Thermal Springs
Hotel & Spa Platystomo – Fthiotida

• **History**
The springs are believed to have been known since the ancient Ainianes, but they were certainly used by the Romans. In 1929, when the construction of the thermal city began, ruins of ancient bath facilities were found, as well as bath vessels and coins.

• **Therapeutic Properties:**
Recommended for treatment of rheumatism, arthritis, skin diseases, gynecological ailments. Mineral water drinking therapy for liver - biliary - track digestive system - urinary track ailments.

• **Temperature - Characteristics**
Hot 25 - 32 °C
Na - Cl - B - H2S
Mineral – Hypotonic Water

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<tr>
<td>Development concept</td>
<td>Tourism-Leisure, Spa, Sports Training &amp; Recreation Center</td>
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</table>

- Two hotels, one hydrotherapy center (spa) and numerous supporting facilities are located inside the property.
- Next to areas of historical interest and natural beauty.
- In proximity to the city of Lamia (32 km) and at a distance of 246 km from Athens.
- Near to Ski Center of Karpenisi (50km).
Thermal Springs
“Therma” Healing water and spa – Lesvos island

• The temperature of the water in “Therma” spring is 39.7°C, it is classified as chloride, brass and oxycarbonate, with a radioactivity of 1.8 Mache units. It is extremely clear, it has no odor and the most impressive factor is that it originates from a depth of 2.5 km underground. The water is characterized as medium-temperature, metallic, uninspired and is indicated for the treatment of those suffering from rheumatism, neuralgias, arthritics, gynecological problems and chronic outcome of injuries.

• There are two separate big bathtubs in the baths, one for women and one for men. There are changing rooms, as well as showers and toilets.

• The property is currently in operation by a private company and offers spa services and various types of massage from qualified personnel. It also hosts a cafeteria offering hot / cold drinks and snacks.

General Info

Region        North Aegean
Municipality  Lesvos
Development   Tourism-Leisure, Spa concept

• “Therma” thermal spring in Gera bay or “Loutra of Korfos” is located 8.5 km from Mytilene, the island’s capital city.

• The baths were constructed during the Ottoman domination and still retain their Oriental architecture.

• They are the most organized facilities of the island and the closest to the capital.
Thermal Springs
“Eftalou” Baths – Lesvos island

• The temperature of the water in “Eftalou” spring is 44.3°C with a radioactivity of 14.7 Mache units. It is classified as superheated, sodium, chlorinated, calcium, potassium, mild radius, subdued thermal source. It is indicated for the treatment of those suffering from chronic rheumatism, arthritis, sciatica, neuralgia, psammia, gallstones, gynecological problems and skin diseases.

• Eftalou’s source has the highest radioactivity in Lesvos. Some people get used to it quickly but some find it annoying. Because of the water’s high temperature it offers a great sense of relaxation.

• The property is currently in operation by a private company and offers spa services and various types of massage from qualified personnel.

General Info
Region North Aegean
Municipality Lesvos
Development concept Tourism-Leisure, Spa

• “Eftalou” thermal spring is located on the North sea coast of the island, east of Molyvos settlement and 65km NW of Mytilene city.

• It is located on the homonymous marvelous tourist beach and is close to one of the most popular tourist resorts on the island – Molyvos town. Many visitors combine hot and cold baths, due to the location of the hotplate next to the beach of Eftalou. On the beach, a natural bathtub (swimming pool), dome-overflowed, built-in and Ottoman style, has been created with stones, where the hot water is channeled and mixed with the sea water.

• The spring flows from the lava slots at the sea level. Along the coast and at a distance of 300-400m, there are many springs almost all below the sea.
Thermal Springs
“Polichnitos” Hot Springs – Lesvos island

• The temperature of the water in “Polichnitos” spring is between 42-44°C, with a radioactivity of 1.6-6 Mache units. It is classified as superheated, saline, hypertonic, chlorinated, potassium, weakly ferrous water. It is indicated for the treatment of those suffering from chronic rheumatism, gynecological problems, arthritis, skin diseases and circulatory diseases.

• The spring near the spa is considered the warmest not only in Greece but also amongst all of the thermal spring sources in Continental Europe.

• The property is currently in operation by a private company and offers spa services and various types of massage from qualified personnel. It also hosts a cafeteria offering hot / cold drinks and snacks.

General Info

<table>
<thead>
<tr>
<th>Region</th>
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<tr>
<td>Municipality</td>
<td>Lesvos</td>
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<tr>
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</table>

• “Polichnitos” thermal spring is located 4km from the sea, 1.5km from the village of Polichnitos and 42km from the city of Mytilene. It consists of five springs that pour at a height of 60m above sea level and are located in a vast geothermal field with sixteen temperature sources from 37°C to 92°C. During the rainy season 38 springs sprout and during the dry season 10 springs sprout.

• The springs are characterized by their scorching waters, but also by the red and yellow colors of the rocks because of the thermophilous seaweeds growing on them.

• In the area there is an important wetland with rare bird species such as arachnids, blacksmiths, white winds, pink flamingos, savannahs, white whites, crayfish, swans, etc. There are especially constructed observatories for visitors and bird watchers. The region has been included in the “NATURA 2000” network.
Thermal Springs
“Agios Ioannis” Hot Springs at Lisvori – Lesvos island

• The water in “Lisvori” spring has a temperature of 66°C with a radioactivity of 2.5 Mache units. It is classified as superheated, saline, hypertonic, chlorinated, weakly radioactive, potassium, weakly ferrous water. It is indicated for the treatment of those suffering from diseases of the musculoskeletal system, rheumatic and autoimmune diseases, as well as skin diseases.

• A small but beautiful and recently renovated church of Saint John (Aghios Ioannis) is located near the facilities.

General Info
Region North Aegean
Municipality Lesvos
Development concept Tourism-Leisure, Spa

Region: North Aegean
Municipality: Lesvos
Development Concept: Tourism-Leisure, Spa