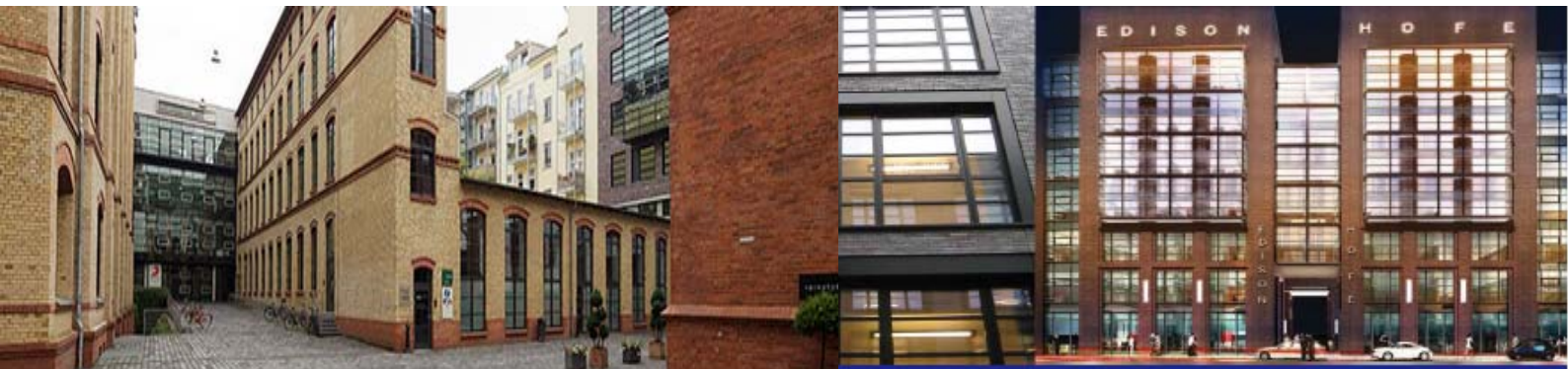




ENERGIEDIENSTLEISTUNG
CONTRACTING



Projekt: ENGIE Deutschland GmbH

Contracting-Effizienz-Tour 2016 Contracting-Efficiency-Tour 2016

Vorstellung Kälte-Contracting-Projekt
Showing project of cold supply

18. Oktober 2016, Berlin

In Kooperation mit der GIZ Gesellschaft für internationale Zusammenarbeit mbH

Contracting-Projekt Kälteversorgung eines Büro- und Geschäftshauses

Liegenschaft:

Edison Höfe, Berlin-Mitte
Invalidenstraße 116 - 119, 10115 Berlin

Beschreibung:

Für die „edison höfe“ in Berlin verbindet ENGIE Kälte-Contracting und effiziente Kältetechnik.

Das Areal zwischen Schlegelstraße und Invalidenstraße in Berlin-Mitte ist ein echtes Stück Geschichte. Hier wurden Deutschlands erste Glühlampen hergestellt, hier steht die Wiege der Allgemeinen Elektrizitätswerke Deutschlands, der AEG. In einer Mischung aus behutsam modernisierten historischen Industriebäuden, Erweiterungen und Neubauten entsteht ein neues Stadtteilzentrum mit ca. 28.500 m² Nutzfläche, das vielfältige Nutzungsmöglichkeiten bietet.

Zum Komplex gehört der Neubau eines multifunktionalen Büro- und Geschäftshauses mit rund 13.000 m² Gesamtfläche, das bis Ende 2011 fertig gestellt wird. In der Planung wurde großer Wert auf Nachhaltigkeit und ökologische Verträglichkeit gelegt. Im Rahmen einer Vortertifizierung hat das Projekt bereits das LEED-Zertifikat in Gold erhalten.

Dazu trägt auch ENGIE seinen Teil bei und versorgt vom Herbst 2011 an das Gebäude mit der benötigten Kühlung. Der Zuschlag als wirtschaftlichster Anbieter ist das Ergebnis einer engen firmeninternen Kooperation. Das Contracting-Know-how der Experten von ENGIE Energy Services verbindet sich mit den äußerst effizienten Quantum-Kälteanlagen von Cofely Refrigeration zu einer Gesamtlösung für die Kälteversorgung, die alle Beding-

Contracting-Project cold supply of an office and commercial building

Property:

Edison Höfe, Berlin-Mitte
Invalidenstraße 116 - 119, 10115 Berlin

Discription:

For the *Edison Höfe*, ENGIE combines cooling contracting and efficient cooling technologies.

The area between Schlegelstraße and invalidenstraße in mid-Berlin is a real piece of history. Here german's first light bulbs were manufactured. It is here that one finds the german cradle of the general power plant, the AEG. In a mixture of carefully modernized industrial buildings, extensions and new buildings, a new district center with approx. 28,500 m² of usable floor space created, which offers a wide range of uses.

The complex includes the new construction of a multifunctional office and commercial building with a total area of around 13,000 m², which was completed by the end of 2011. In planning, great importance was attached to sustainability and ecological compatibility. As part of a pre-certification, the project has already received the LEED certificate in gold.

ENGIE has been supplying the building with the necessary cooling from autumn of 2011 onwards. The award as the most economical supplier is the result of a close inter-company cooperation. The contracting know-how of the experts at ENGIE Energy Services is combined with the extremely efficient Quantum refrigeration systems from Cofely Refrigeration.

ungen eines Neubaus zum Primärenergiefaktor und damit für den ENEV-Nachweis erfüllt.

Im Rahmen des Contractings garantiert ENGIE die Lieferung der gesamten benötigten Kälteleistung unter Berücksichtigung der Sicherungsanforderungen an die aufgestellten IT- Server. Zum Leistungspaket gehört die Beschaffung der Primärenergie genauso wie Errichtung und Betrieb der benötigten Trafostation, der Kältezentrale, der Kälteanlage mit zwei Quantum Kältemaschinen (je 680 kW) und der Rückkühlwerke auf dem Dach.



Technik:

Kälteanlage
(2x Quantum 680 kW) 1.160 KW

Energieträger:

Strom

Vorteile:

- Höchste Energieeffizienz
- Winterbetrieb für Serverkühlung ohne Einsatz Kältemaschinen über Rückkühlbetrieb möglich
- Finanzierung, Planung und Betrieb durch ENGIE, garantiert sichere und effiziente Versorgung gewährleistet

A complete solution for the cooling supply, which fulfills all conditions of a new building, is proof to the ENEV and a factor to the primary energy.

Within the framework of the contraction, ENGIE guarantees the supply of all required cooling capacity, taking account of the safety requirements to the IT servers deployed. The package includes the procurement of primary energy as well as the erection and operation of the necessary transformer station, the refrigeration center, the refrigeration system with two Quantum cooling units (680 kW each) and the roof cooling systems.



Technology:

cooling system
(2x Quantum 580 kW) 1.160 KW

Energy sources:

Power

advantages:

- Highest energy efficiency
- Winter operation for server cooling without the use of chillers is possible via re-cooling mode
- Financing, planning and operation by ENGIE, guarantees safe and efficient supply

VfW – Verband für Wärmelieferung e.V.

The leading representation for
contraction and energy services

The Association for Heat Supply e.V. (VfW) offers comprehensive and in-depth practice support on the subject of energy supply. The VfW provides information on the decisive, current and best products, technologies, service performances, training/instruction and schedules within the scope of energy supply. The VfW offers its member companies and enterprises comprehensive contractual instruments, operational guarantees and support ranging from the tendering phase to the realisation and implementation of an energy supply project.

When a real estate owner is confronted with the problem of replacing his old heating plant with a new one, his main point of interest is basically this: the new plant should function properly without causing time-consuming efforts and high costs. Then again: why should a house owner purchase a complete heating plant when he is only interested in obtaining a reliable heat supply?

This situation has resulted in the development of an uncomplicated and practical solution: heat supply (also known as "contracting"). The engineer or plant builder rents space in the building where he plans, installs, operates and finances the heating station under his own responsibility. The generated heat is then sold to the building owner at a price agreed beforehand. The price of the heat is primarily determined by the economy of operation of the heating plant itself, and in a lesser sense by the investment costs of the heat producer. For this reason, new techniques can be given preferential use.

ENGIE DEUTSCHLAND GmbH

Our core business is making your core
business more efficient.

Our diversity is what makes us unique: at ENGIE Deutschland GmbH (formerly Cofely Deutschland GmbH), we combine competence from the areas of technology, energy, and service to create an overall portfolio which allows us to tackle even the most demanding tasks. Our well-founded knowledge in all areas of construction technology is the basis for our outstanding solutions in complex plant engineering and technical building management, and for innovative energy services in the areas of energy contracting, energy management, and energy efficiency. Our portfolio is rounded off by the competence in refrigeration technology offered by ENGIE Refrigeration GmbH (formerly Cofely Refrigeration GmbH).

We use our know-how, our technical infrastructures, and our individual services, to help our customers make their buildings, facilities, and core processes more efficient. This means: increased availability and greater quality whilst maintaining reliable operational readiness and improved flexibility - and without sacrificing the valuable cost advantages we offer compared to competitors.

Ansprechpartner vor Ort (personal local contact):

Bob Langner, Key Account Manager,
Tel.: +49 341 86978-263
bob.langner@de.engie.com

ENGIE Deutschland GmbH,
Gletschersteinstr. 28, 04299 Leipzig
www.engie-deutschland.com