

Condition of power supply

Number of flat (households, n. of peoples, surface area) served City of Ludwigsburg has regarding 85.450 occupants Thickness of population remains in the City of Ludwigsburg 2.014 inhabitants/km², administrative area Ludwigsburg: 751 inhabitants/km². 52.000 houses in Ludwigsburg, variety of flats is unidentified. a1) heating unit.

Set up power.

Our very own public utility business Ludwigsburg-Kornwestheim accumulated a new co-generation plant with a.annual power of 10 Mio kWh electricity as well as 48 Mio kWh heating from biomass, supply of around 70% of.the whole district heating of the City.Yearly consumption.Final power usage in the year 2007: 2.244 Mio kWh/a.

Key Proportions: households 45% and also website traffic 28%.Per head: average 25.700 kWh/a.Kind of gas.25% oil, 25% petroleum, 29% gas, 18% electricity, 3% renewable resources (from the last energy.intake); 2007.Sort of power system (person, centralized).new co-generation plant with biomass (wood chips from the region).district home heating (new co-generation-plant):

Connection of brand-new house "Hartenecker Höhe", city centre, public structures, existing plans for an expansion of the area home heating.6 heating terminals, 3 block home heating terminals (public utility business).gas pipe (public utility firm).regional heating network: housing location "Sonnenberg"-- geothermal energy.private power supply-- gas, oil.Age of innovation.new co-generation plant was accumulate in 2009.

Key previous treatment.New co-generation plant from the public utility business Ludwigsburg-Kornwestheim in 2009.Geothermal energy plant "Sonnenberg".a2) air conditioning.--a3) lighting.--3.1.2 result.Exam of the neighborhood power supply system in partner towns/regions.8.b) Problems of buildings (building material, roofs, insulations, windows and doors, place relevant.to public transportation. Etc.).

Building and construction product.

High proportion of provided structures (baroque structures, walling, timber framing, mansard roof, brick,.sandstone, exposed masonry, perforated exteriors).architectural and creative monuments: inner city 340, districts 93.Key percentage: post-war buildings (main difficulty, typical structure frameworks 1950s to 1970s).New structure locations with high power standards, e.g. new structure location "Hartenecker Höhe", previous.army website, now single acquainted houses and also multi family members residences with high energy standards.

Public transport.very good connection within the area of Stuttgart, quick accessibility (10 minutes by train to the.regional metropolitan area Stuttgart).two sub-urban railway lines, additionally numerous straight train links from Ludwigsburg to Stuttgart as well as.other cities in the region.Ludwigsburg: various bus lines, great ease of access of the entire City.c)

Social facets

Residential structures.Kind of possession.37 percent of the habitations remain in ownership (source: Coummunal real estate policy Ludwigsburg:.Weeber + Companion, web page 29).a high price of

possession you can locate in the districts of „ Hoheneck", "Oßweil", "Neckarweihingen".as well as "Poppenweiler" (half).

Social conditioning.the population of Ludwigsburg is differentiated by a high wide range (like the city Stuttgart).the greater course and the upper middle class like the north part of the east-district (Ost-Nord) and also.the outskirts of Ludwigsburg e.g. "Pflugfelden", "Hoheneck", "Oßweil", "Neckarweihingen" and." Poppenweiler" (source: Coummunal housing policy Ludwigsburg: Weeber + Partner).

1) power intake.the real last energy demand in Ludwigsburg for 2007 was around 2,244 million kWh/a.the power is credited to households at 45%, complied with by transportation with 28%.Renewable energy contributes regarding 3% of the final energy need in Ludwigsburg.2) CO₂ - emissions.1990: 582 kt/a (7,1 t/a/capita).

2007: 539 kt/a (6,2 t/a/capita).2010: 521 kt/a (6,0 t/a/capita).these results consists of all discharges of the entire city of Ludwigsburg (territorial principle).Potentials for renewable resources." This might cover around 38% of today's electricity demand in Ludwigsburg. Photovoltaics would certainly play the.significal role adhered to by biomass (regional degree) as well as hydro power use.

If a 20% decrease in the total.power need by 2025 is thought as a result of the implementation of energy effectiveness actions, after that.renewable resource can have a share of 47% in the City of Ludwigsburg.The potential to use renewable resource for heat generation in Ludwigsburg totals around 350 GWhth (timber.on a local level).

This would cover virtually 39% these days's home heating demand in Ludwigsburg.

Solar thermal.will play the most significant role adhered to by timber usage as well as surface geothermal heat gathered with.3.1.2 outcome.Evaluation of the regional power supply system in companion towns/regions.10.geothermal probes and also collection agencies.

If a 40% decrease in the overall home heating demand by 2025 is assumed.because of the implementation of energy efficiency steps, then renewable energy might have a share of.64.5% in the City of Ludwigsburg for the home heating demand." (resource: Integrated Environment Defense and.Power Strategy: web page 5 and also 6).