

2 Ton Ac Current Consumption

Natural gas overtook coal as the dominant source for electric generation in 2016. Coal was overtaken by nuclear for the first time in 2020 and by renewables in 2023. e9380cb712 The TRAXX brand name itself was introduced in 2003. The acronym stands for Transnational Railway Applications with eXtreme fleXibility. With the takeover of Bombardier Transportation by Alstom in January 2021, the trademark rights were transferred to the new owner. In the summer of 2023, Alstom extended the use of the word mark to the entire range of locomotives and completely stopped using its own word mark Prima . At... e9380cb712 The WCM-2 served both passenger and freight trains for over 40 years. With the introduction of more modern types of locomotives and 25 KV AC electrification, all were withdrawn in the early 2000s after repeated failures, and have since been scrapped. e9380cb712 The WCM-2 were designed in the mid 1950s with the intent for the Indian Railways (IR) to remove steam locomotives working on the Eastern Railway (ER) after recommendation of Karnail Singh Fuel Committee. In the late 1950s the Kolkata Suburban Railway was established and electrified with overhead 3000 V DC supply. Therefore, Indian Railways began to look at various designs. e9380cb712 Ghana exports some of its generated energy and fossil fuels to other countries. Electricity transmission is under the operations of Ghana Grid Company. The distribution of electricity is under Northern Electricity Distribution Company and Electricity Company of Ghana. e9380cb712

List of GE locomotives GE is one of the largest locomotive manufacturing companies. Note 1: The "AC44i" is an export version of the The following is a list of locomotives produced by GE Transportation Systems, a subsidiary of Wabtec. All were/are built at Fort Worth, Texas or Erie, Pennsylvania, in the United States. This list includes locomotives built solely for export outside of North America. make space for the six traction inverters (one per axle) that supply the AC current to the traction motors. Most (except the electrics, the switchers, the AC6000CW, and the Evolution series) are powered by various versions of GE's own FDL diesel prime mover, based on a Cooper Bessemer design and manufactured at Grove City, Pennsylvania e9380cb712

The United States was the second-largest energy producer and consumer... e9380cb712 == History == e9380cb712

Electricity sector in Ghana Electricity generation is one of the key factors in order to achieve the development of the Ghanaian national economy, with aggressive and rapid industrialization; Ghana's national electric energy consumption was 265 kilowatt hours per person in 2009. Department had commenced a limited direct current (DC) supply in Accra in 1922. A large alternating current (AC) project started on 1 November 1924, and Ghana generates electric power from hydropower, fossil-fuel (thermal energy), and renewable energy sources such as wind and solar energy e9380cb712

== Introduction == e9380cb712 The WAG-9 class was built to haul freight trains. A passenger variant of the WAG-9 was developed, the WAP-7, with a modified gear ratio to pull lighter loads at higher speeds. EF9K, previously known as WAG-9HH which has a power of 9,000 hp has been developed. EF12K, a new evolution of WAG-9 locomotive has been developed with 12,000 hp. e9380cb712

Indian locomotive class WCM-2 A total of 12 WCM-2 locomotives were built in England between 1956 and 1957. 5 kV DC electric locomotives that was developed in 1956 by Vulcan Foundry and English Electric for Indian Railways. They entered service in 1957. The WCM-2 served both passenger and freight trains for over 40 years. The model name stands for broad gauge (W), Direct Current (C), Mixed traffic (M) engine, 2nd generation (2). With the introduction of more modern types of locomotives and 25 KV AC electrification The Indian locomotive class WCM-2 was a class of 3 kV DC, later 1 e9380cb712

== Freight locomotives == e9380cb712

Indian locomotive class WAG-9 of 25 kV AC electric locomotives that was developed in 1995 by ABB for Indian Railways. It was the most powerful freight locomotive in the Indian Railways fleet until the introduction of the WAG-12 and WAG D-9. They entered service in 1996. A total of 5140 WAG-9 have been built at Chittaranjan Locomotive Works (CLW), with more units being built at Banaras Locomotive Works (BLW), Bharat Heavy Electricals Limited (BHEL) and Patiala Locomotive Works (PLW). The model name stands for broad gauge (W), AC Current (A), Goods The Indian locomotive class WAG-9 is a class of 25 kV AC electric locomotives that was developed in 1995 by ABB for Indian Railways. The model name stands for broad gauge (W), AC Current (A), Goods traffic (G), 9th generation (9) locomotive e9380cb712

Seasonal energy efficiency ratio the reference annual cooling demand divided by the annual electricity consumption for cooling of a device. The legislation requires that many air conditioners The seasonal energy efficiency ratio (SEER) is a meaurement used to rate the efficiency of air conditioners. The SEER rating of a device is the cooling output during a typical cooling-season divided by the total electric energy input during the same period. The higher a device's SEER rating, the more energy efficient it is e9380cb712

European legislation defines SEER as the reference annual cooling demand divided by the annual electricity consumption for cooling of a device. The legislation requires that many air conditioners offered for sale in the EU must bear labels including SEER ratings measured in a standardized way... e9380cb712 In the past, standby power was primarily a non-issue for users, electricity providers, manufacturers, and government regulators. In the twenty-first century's first decade, awareness of the issue grew, becoming essential for all parties. Up to the middle of the decade, standby power was often several watts or tens of watts per appliance. By 2010, regulations were in place in most developed countries restricting standby power of devices sold to one watt (and half that from 2013). e9380cb712 Energy consumption in transport is often described in terms of fuel consumption, fuel consumption being the reciprocal of fuel economy. and linked with a means of propulsion which uses chemical energy, whilst energy efficiency in general is applicable to any sort of propulsion. In order to compare the energy efficiency in any type of vehicle, it helps to use the International System of Units including joules for energy and metres for distance. The more efficient the vehicle, the

more metres it covers with one joule (more efficiency), or the fewer joules it uses to travel over one metre (less consumption). The efficient use of energy in transport largely varies by means of transport. Different types of transport consume from some dozen... e9380cb712 Vampire power, also known as vampire draw, vampire load, phantom power, phantom draw, phantom load, or ghost load, is the electric power electrical appliances consume while energized but not in any use (including standby mode). Vampire current is the electric current electrical appliances draw while energized but not... e9380cb712 The WAG-9 locomotive is a "Heavy Haul" freight locomotive, conceived in response to the growth in rail freight. The need for more electrification and electric locomotives in India had increased. Around 80-85% of freight transported... e9380cb712 Power is supplied to moving trains with a (nearly) continuous conductor running along the track that usually takes one of two forms: an overhead line, suspended from poles or towers along the track or from structure or tunnel ceilings and contacted by a pantograph, or a third rail mounted at track level and contacted by a sliding "pickup shoe". Both overhead wire and third-rail systems usually use the running rails as the return conductor, but some systems use a separate fourth rail for this purpose. e9380cb712

Energy in the United States Electricity from nuclear power supplied 9% and renewable energy supplied 9%, which includes biomass, wind, hydro, solar and geothermal. Per capita consumption was 11 Energy in the United States is obtained from a variety of sources, although the majority came from fossil fuels in 2025: 37% of the nation's energy originated from petroleum, 36% from natural gas, and 9% from coal. Since 2010, total consumption has remained within 2% of this figure. Energy consumption in 2025 was mostly for industry (35%) and transportation (37%), with use in homes (15%) and commercial buildings (13%) making up the remainder. The United States' portion of the electrical grid in North America had a nameplate capacity of 1,281 GW and produced 4,429 TWh in 2025, using 32% of primary energy to do so. Electric grid consumption in the US was 3,806 TWh in 2021 e9380cb712

== History == e9380cb712

Energy efficiency in transport is the energy consumption in transport. The energy input might be rendered in several different types depending on the type of propulsion, and normally such energy is presented in liquid fuels, electrical energy or food energy. The inverse of the energy efficiency in transport is the energy consumption in transport. Energy consumption in transport is often described in terms of fuel consumption, fuel consumption being the reciprocal The energy efficiency in transport is the useful travelled distance, of passengers, goods or any type of load; divided by the total energy put into the transport propulsion means e9380cb712

SEER is defined for the United States by the Air Conditioning, Heating, and Refrigeration Institute, a trade association, in its 2008 standard AHRI 210/240, Performance Rating of Unitary Air-Conditioning and Air-Source Heat Pump Equipment. This defines SEER as the ratio of cooling in British thermal units (BTUs) to the energy consumed in watt-hours. The device testing protocol was changed in 2023 to include more accurately the energy used when cooled air is pushed through ducts. The revised protocol produces smaller numbers identified in documentation as SEER2 measurements. e9380cb712 Energy figures are measured in BTU, with 1 BTU equal to 1.055 kJ and 1 quadrillion BTU (1 quad) equal to 1.055 EJ. Because BTU is a unit of heat, sources that generate electricity directly are multiplied by a conversion factor to equate them with sources that use a heat engine. e9380cb712 According to data by the International Energy Agency, Ghana's electricity mix in 2021 relied on natural gas (62.6%) and hydropower (34.1%). Solar power accounted for less than one percent. e9380cb712 In comparison to the principal alternative... e9380cb712

Railway electrification are classified by three main parameters: Voltage Current Direct current (DC) Alternating current (AC) Frequency Contact system Overhead lines (catenary) Railway electrification is the use of electric power for the propulsion of rail transport. The railway usually provides its own distribution lines, switches, and transformers. Some electric railways have their own dedicated generating stations and transmission lines, but most purchase power from an electric utility. Electric railways use either electric locomotives (hauling passenger or freight in separate cars), electric multiple units (passenger or freight cars with their own motors) or both. Electricity is typically generated in large and relatively efficient generating stations, transmitted to the railway network and distributed to the trains e9380cb712

Standby power calculating the difference in power consumption. Less expensive wattmeters may be subject to significant inaccuracy at low current (power). Idle current is the electric current electrical appliances draw while in standby mode. It only occurs because some devices claim to be "switched off" on the electronic interface but are actually in a different state (standby mode) such as to power a clock or allow for remote control power-on. They are often subject Standby power or idle power is the electric power electrical appliances consume while in standby mode e9380cb712

Alstom Traxx The first version was a dual-voltage AC locomotive built for German railways from the year 2000. letters indicate the supply system, with AC for alternating current electric locomotives, DC for direct current electric locomotives, MS for multi-system Alstom Traxx (sold as Bombardier TRAXX before 2021) is a modular product platform of mainline diesel-electric and electric locomotives. The family was expanded in 2006 to include diesel-powered versions. Elements common to all variants include steel bodyshells, two bogies with two powered axles each, three-phase asynchronous induction motors, cooling exhausts on the roof edges, and wheel disc brakes. It was produced originally by Bombardier Transportation and later Alstom, and was built in both freight and passenger variants. Later types included DC versions, as well as quadruple-voltage machines, able to operate on all four electrification schemes commonly used in Europe e9380cb712

Indian Railways initially invited tenders to build locomotives to the new specification, receiving the following responses: e9380cb712

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