

Generator Set Synchronising With And Running In Parallel

The National Grid is a wide area synchronous grid operating at 50 hertz and consisting of 400 kV and 275 kV lines, as well as 132 kV lines in Scotland. It has several undersea interconnectors: an AC connector to the Isle of Man, and HVDC connections to Northern Ireland, the Shetland Islands, the Republic of Ireland, France, Belgium, the Netherlands, Norway,... 849188485b

Electrification In the context of history of technology and economic development, electrification refers to the build-out of the electricity generation and electric power distribution systems. made parallel operation of AC generators feasible, and improved the stability of rotary converters for production of direct current for traction and industrial Electrification is the process of powering by

electricity and, in many contexts, the introduction of such power by changing over from an earlier power source. In the context of sustainable energy, electrification refers to the build-out of super grids and smart grids with distributed energy resources (such as energy storage) to accommodate the energy transition to renewable energy and the switch of end-uses to electricity 849188485b

ASV Mark III radar It was Coastal Command's primary radar from the spring of 1943 until the end of the war. IIIs from 1944 and ASV Mark VII radar, which saw only limited use until the post-war era. It was a slightly modified version of the H2S radar used by RAF Bomber Command, with minor changes to the antenna to make it more useful for the anti-submarine role. III for short, was a surface search radar system used by RAF Coastal Command during World War II. Several improved versions were introduced, notably the ASV Mark VI, which replaced most Mk. Brown continued development with EMI and presented it again in late 1942 when Metox negated the Radar, Air-to-Surface Vessel, Mark III, or ASV Mk. Bomber Command, who wanted all the sets for themselves 849188485b

The electrification of particular sectors of the economy, particularly out of context, is called by

modified terms such as factory electrification, household electrification, rural electrification... 849188485b Coastal Command's first radar was ASV Mark I, which began experimental use in 1939. Minor improvements were made for the Mark II in 1940 but it was not widely available until late 1941. Having realized that the RAF... 849188485b Electric motors can be powered by direct current (DC) sources, such as from batteries or rectifiers, or by alternating current (AC) sources, such as a power grid, inverters or electrical generators. Electric motors may also be classified by considerations such as power source type, construction, application and type of motion output. They can be brushed or brushless... 849188485b

Teleprinter In 1835 Samuel Morse A teleprinter (teletypewriter, teletype or TTY) is an electromechanical device used to send and receive typed messages through various communications channels, in both point-to-point and point-to-multipoint configurations. across a country with little manual intervention. There were a number of parallel developments on both sides of the Atlantic Ocean 849188485b

With the development of early computers in the 1950s, teleprinters were adapted to allow typed data to be sent to a computer, and responses

printed. Some teleprinter... 849188485b

Handley Page HP.115 Both the tailfin and rudder were swept at an angle of 60° , save The Handley Page HP. experiments, some of which employed smoke generators mounted on the wing leading edges. It was built to test the low-speed handling characteristics to be expected from the slender delta configuration anticipated for a future supersonic airliner. 115 was an experimental delta wing aircraft designed and produced by the British aircraft manufacturer Handley Page 849188485b

Colossus computer The programs for the processors were set and held on the switches and jack Colossus was a set of computers developed by British codebreakers in the years 1943-1945 to help in the cryptanalysis of the Lorenz cipher. tape and the electronic pattern generators for the chi, psi and motor wheels. Colossus used thermionic valves (vacuum tubes) to perform Boolean and counting operations. Colossus is thus regarded as the world's first programmable, electronic, digital computer, although it was programmed by switches and plugs and not by a stored program 849188485b

Electric motor An electric generator is mechanically identical to an electric motor, but

operates in reverse, converting mechanical energy into electrical energy. An electric generator is mechanically An electric motor is a machine that converts electrical energy into mechanical energy. Most electric motors operate through the interaction between the motor's magnetic field and electric current in a wire winding to generate Laplace force in the form of torque applied on the motor's shaft. field and electric current in a wire winding to generate Laplace force in the form of torque applied on the motor's shaft

The site is one of a number of power stations located along the Trent valley and is one of the so-called Hinton Heavies. The West Burton power stations are 3.5 miles (5.6 km) downstream and Ratcliffe-on-Soar Power Station is 52 miles (84 km) upstream. The decommissioned... The HP.115 was designed during the 1950s as part of the wider supersonic aircraft research programme that was sponsored by the Ministry of Supply. At the time, both the delta wing and supersonic flight were both relatively recent innovations. By 1956, the Supersonic Transport Committee had been deemed necessary to build a demonstrator to prove that the slender delta wing design was not only suitable for high speed flight but would also be reasonably functional at lower speeds as well.

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Initially, work... 849188485b

National Grid (Great Britain) Electricity Board, which set up the UK's first synchronised, nationwide AC grid, running at 132 kV, 50 Hz. It does not cover Northern Ireland, which is part of the Irish single electricity market. The grid was created with 6,400 kilometres (4,000 The National Grid is the high-voltage electric power transmission network supporting the UK's electricity market, connecting power stations and major substations, and ensuring that electricity generated anywhere on the grid can be used to satisfy demand elsewhere. The network serves the majority of Great Britain and some of the surrounding islands 849188485b

Colossus was designed by General Post Office (GPO) research telephone engineer Tommy Flowers based on plans developed by mathematician Max Newman at the Government Code and Cypher School at Bletchley Park. 849188485b

Electricity in Great Britain Power is supplied to consumers at 230 volts AC with a frequency of 50 Hz. Nuclear is currently the second biggest low carbon source, some of which is imported from France. The government is aiming for greenhouse gas emissions from electricity in

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Britain to be net zero by 2035. Electricity Board, which set up the UK's first synchronised, nationwide AC grid, running at 132 kV, 50 Hz. As of 2024, wind generates 30% of the yearly electrical energy on the grid, whereas fossil gas generated just over 25% and over two-thirds was low-carbon power. Coal power ceased in 2024. The grid was created with 4,000 miles of cables: The National Grid covers most of mainland Great Britain and several of the surrounding islands, and there are interconnectors to Northern Ireland and to other European countries

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Traction substation A traction power substation may also refer to a site that supplies a railway traction power network with power from the public electricity utility. consisted of one or more motor-generator sets containing three-phase synchronous AC motors and single-phase AC generators, mechanically coupled to a common A traction substation, traction current converter plant, rectifier station or traction power substation (TPSS) is an electrical substation that converts electric power from the form provided by the electrical power industry or railway owned traction power network to an appropriate voltage, current type and frequency to supply trains, trams (streetcars) or trolleybuses with traction current

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Alan Turing's use of probability in cryptanalysis (see Banburismus) contributed to its design. It has sometimes been erroneously stated that Turing designed Colossus to aid the cryptanalysis of the... 849188485b Initially, from 1887 at the earliest, teleprinters were used in telegraphy. Electrical telegraphy had been developed decades earlier in the late 1830s and 1840s, then using simpler Morse key equipment and telegraph operators. The introduction of teleprinters automated much of this work and eventually largely replaced skilled operators versed in Morse code with typists and machines communicating faster via Baudot code. 849188485b The use of electricity declined in the 2010s and early 2020s, attributed largely to a decline in industrial activity and a switch to more energy efficient... 849188485b

Cottam power stations system in time of heavy load and low frequency on the system. This plant is owned by Uniper. The smaller in-use station is Cottam Development Centre, a combined cycle gas turbine plant commissioned in 1999, with a generating capacity of 440 MW. Operation to meet this condition was automatic including run up, synchronising of the gas The Cottam power stations were a pair of power stations on over 620 acres (250 ha) of mainly arable land situated at the eastern edge of Nottinghamshire on the

west bank of the River Trent at Cottam near Retford. The larger coal-fired station was decommissioned by EDF Energy in 2019 in line with the UK's goal to meet its zero-coal power generation by 2025 849188485b

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