Torrance-On-the-Air 54

THE MULTING THE STREET

Great POWER Firm Serves Electrical Age S. C. Edison Lines Span Vast Area of Southland

QUITE a long time before Southern California was discovered by the real estate subdividers and the movies, the company which today is the Southern California Edison Company had its genesis. The place was Redlands and the year was 1893. Mill Creek No. 1 was the plant-America's first hydro-electric, three-phase plant for long distance transmission of electric energy. It still is in daily operation, modernized some time ago, as a part of Edison's extensive system of hydro-electric plants.

A lot of water has gone over the Pelton wheels since Mill Island, Long Beach, is one of the virtually all of the Southland's located in Tulare, Kern, Los Anmountain streams have been de- geles and San Bernardino coun-Edison at Long Beach to suppleof hydro energy

Age grows apace-and the real opments are located. The comestate subdividers and the movies bined capacity of the three large vast commercial and industrial and Shaver Lakes in the High empire that has been developed, Sierras, is 289,285 acre feet. with electricity's aid, on the shores of the Pacific and in the

530,000 Customers

Company supplies electrical serv- miles of distribution line. The ice to all or part of each of the company also has 5,200 circuit ten Southern and Central counties of California, an area approximately 12,000 square miles. This extensive area is distinguished in the national field of electrical service for a wide variety of year around activities into which the service of electricity enters as one of the most important factors. The diversi-empire. Its romance is as enty of topography, climate and thralling as the story of the denatural resources of this territory provides a liberal and fundamentally sound basis for the established business of this company for future development.

Service of the company is supplied directly to 530,000 customers-more than 400,000 urban homes, 23,000 factories, 55,000 commercial establishments and the development of greater water 43,000 farms. The company sup- supply and conservation. Conplies service both directly and indirectly to the homes, farms, factories and stores of Southern and Central California-directly possible through the great hydroto its retail customers on its own distribution lines and indirectly the headwaters of the San Joato other consumers through quin River wholesale service to the cities of Anaheim, Azusa, Colton and Riverside

largely upon pumped water for sweep unhindered to the sea. the irrigation of crops of all seasections of the Southern and Cen- gressive movement. tral California territory, irrelished centers

The company operates 24 hydro-electric plants having a combined operating capacity of 659,914 horsepower and four fuelelectric plants with a combined capacity of 588,807 horsepower. The generating capacity thus is 1,248,721 horsepower.

The largest hydro-electric development of the company is in the Sierra Nevada mountains of Fresno county, on the headwaters of the San Joaquin River, and has an operating capacity of 534,852 horsepower, installed in five plants. The steam-electric station, located on Terminal Creek No. 1 went into service. largest in the nation. Other The hydro-electric capacities of hydro-electric developments are veloped. Boulder Dam power is ties. In connection with its hya reality. A mammoth steam- dro-electric plants, the company electric plant has been built by owns and operates three large reservoirs and four smaller ones ment and reinforce the sources for storage purposes and for the regulation of the flow of the Southern California's Electric streams upon which the develare but representatives of the reservoirs, Florence, Huntington

Romantic Development

For the transmission and disfertile valleys of Southern and tribution of electric energy the Central California. Edison Company operates 3,040 circuit lines of high tension trans-Southern California Edison mission line and 13,800 circuit miles of private telephone lines, serving approximately 2,000 telephones for organization use.

The story of the development of electric service in the territory served by Edison is a romance that is woven closely with the history of the growth of the velopment of water which gives life to this land which was once largely desert.

In fact, the stories of the de-velopment of water and of electric light and power supply have gone hand in hand. And again today, as for years in the past, electricity is the mighty aid to servation and regulation of the winter-born waters of the High Sierras for years has been made electric works of the company at

A Vital State Force

Huge dams forming immense mountain reservoirs hold for Most of the large industrial summer use in the rich valley areas of Southern California are below the waters laid as snow situated on the lines of Edison and rain over wide-spread forservice. Here an abundance of ested watersheds. Were it not raw materials for manufacture for these reservoirs from which is reinforced economically by the energy to turn the turbines in immediate availability of a plen- the series of power houses in tiful supply of low-cost electric the canyons below is taken, these power. Agriculture, dependent winter storm waters would Electricity, since the beginning sons, similarly is supported by of electric service, in Southern the electric service of the Edison and Central California, thus has Company which reaches into all been a vital force in every pro-Virtually no year in the history spective of isolation from estab- of the company is without its record of some outstanding development of electric generation, The savings of nearly 90,000 transmission and distribution fapeople are invested in the com- cilities, and of utilization of elecpany, most of whom are resi-dents of California. The com-is the birthplace of the science pany is thus a community enter- of long distance transmission of prise-contributing to and an electrical energy at high volt-Sinews of Development



POWER FROM EDISON CO.

The new 50,000-watt KNX transmitter is supplied with power by the Southern California Edison Company, whose large LaFresa sub-station lies a short distance from Columbia Park in Torrance. Two duplicate power lines, each of which carries 16,500 volts, assure continuous operation of the radio transmitter.

In fact, one of the outstanding reasons for locating the new \$350,000 KNX transmitter in Torrance was the enviable record of the Edison company for maintaining almost uninterrupted service over long periods of time-a vital factor in broadcasting.

TOP: LONG BEACH STEAM STATION largest and most efficient electric generat-Edison's Long Beach Steam Station, on ing stations. There are 11 generating units, Terminal Island, is one of the nation's capacity is 556,300 h.p. in three plants. CENTER: L. B. STATION BOILER ROOM Steam Station forms California's "Grand

24 Huge Plants

ticipating the assured growth ages and progress of Southern and of the communities it serves.

Towering as high as a six story building, this double row of gigantic boilers in Plant No. 3 of Edison's Long Beach

LOWER RIGHT: CHANNEL TOWERS Tall transmission towers carry the wires from Edison's Long Beach Steam Station

LOWER LEFT: TURBINE GENERATOR This turbine generator in Edison's Long Beach Steam Station, has under its shining exterior the power to generate elec-

Creek, Ward Tunnel, Long Beach | climate of the Sierra Nevada | that rich 12,000 square mile ter-Steam Station-all names which mountains where the great hy- ritory of Edison service, these now take their place among the construction wonders of the West. Simultaneously, the Big Creek On Terminal Island, Long Beach, Central and Southern California project and the Long Beach a gigantic marvel of modern with a constant, abundant flow Back of the lines are the pow- Steam Station project were driv- steam engineering was complet- of low-cost electrical energy for California citizens and always er houses. The construction of en to completion by Edison en- ed, created where once had been every use. As its territory has

pany is a vital and integral part the eyes of the world on Central handicaps imposed by the rugged system by a transmission and sinews of community developand Southern California-Big topography and severe winter distribution network that covers ment.

Canyon of Industry." Operating at capacity, these boilers convert 20 tons of water into steam each minute to turn the turbines.

across Cerritos channel, entrance to the Long Beach Harbor. They are among the world's highest electric power line towers.

tricity equal to the driving power of 133,000 horses. Edison's Long Beach Steam Station is one of the country's largest fuel-electric plants. A vast industry serves the Southland.

directed and managed by Cali-fornia men, the Edison Com-Ward, the "Rock Writer," focused