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0521835240 - Private and Public Enterprise in Europe: Energy, Telecommunications and
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Private and Public Enterprise in Europe

This is the first comparative history of the economic organisation of energy, telecommunications and transport in Europe in the nineteenth and twentieth centuries. It examines the role that private and public enterprise have played in the construction and operation of the railways; electricity, gas and water supply; tramways; coal, oil and natural gas industries; telegraph, telephone, computer networks and other modern telecommunications. The book begins with the arrival of the railways in the 1830s, charts the development of arm's-length regulation, municipalisation and nationalisation, and ends on the eve of privatisation in the 1980s. Robert Millward argues that the role of ideology, especially in the form of debates about socialism and capitalism, has been exaggerated. Instead the driving forces in changes in economic organisation were economic and technological factors and the book traces their influence in shaping the pattern of regulation and ownership of these key sectors of modern economies.

ROBERT MILLWARD is Professor of Economic History at the University of Manchester. His previous publications include *Public and Private Ownership of British Industry 1820–1990* (1994) and *The Political Economy of Nationalisation in Britain 1920–1950* (1995).

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Preface

I hope that historians and economists will treat this as a first stab at a subject where cross-European comparisons have been neglected in the past. There does not appear to have been any systematic attempt to analyse and quantify the economic history of regulation and public ownership in Europe. Much remains to be done, especially since my command of languages is limited so that this book is more a research monograph than a text. There are large gaps, set out at the end of chapter 1, in both topics and countries, which I hope others will address. In the meantime let me thank the large number of scholars who have, in one way and another, been most helpful and in particular: Francesca Antolin, Judith Clifton, Francisco Comin, Alexandre Fernandez, Massimo Florio, James Foreman-Peck, Daniel Fuentes, Renato Giannetti, Andre Giuntini, Ingrid Henriksen, Ole Hyldtoft, Gregorio Nunez, Dieter Schott and Richard Tilly.

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Some of the ideas and data in Part II and in chapter 14 (the data on productivity) have appeared in the following publications by Cambridge University Press: 'European Governments and the Infrastructure Industries c.1840-1914', *European Review of Economic History* 8(1) (2004); 'The Rise of the Service Sector', in R. Floud and P. Johnson (eds.), *The Economic History of Britain since 1700. III. Structural Change and Growth 1939-2000* (2004); 'The Political Economy of Urban Utilities in Britain 1840-1950', in M. Daunton (ed.), *Cambridge Urban History of Britain, III* (2001).

Glossary and abbreviations

AGIP	Azienda Generale Italia Petroli (1926)
AGTVF	Asociación General de Transportes par Vía Férnea
ASEA	Allmäna Svenska Elektriska AB (Swedish electrical equipment manufacturer)
ASST	Azienda di Stato per i Servizi Telefonici (Italian state enterprise for trunk telephone lines)
BA	British Airways, 1974, merged from British Overseas Airways Corporation (BOAC, 1940) and British European Airways (BEA, 1946)
BERG	Berg u. Hüttenbeheze AG (former Herman Goering works, 1936)
BP	British Petroleum (1914)
BR	British Railways (1962 the successor to the Railways Executive, 1947)
BT	British Telecom (1981)
BTC	British Transport Commission (1947)
CAMPSA	Compañía Arrendataria del Monopolio de Petróleos (Spain, 1927)
CASMEZ	Cassa per il Mezzogiorno (Italian government development fund for the south, 1950)
CDF	Charbonnages de France (state coal board, 1946)
CEB	Central Electricity Board (Britain, 1926)
CEEP	Centre Européen de l'Entreprise Publique
CFP	Compagnie Française des Pétroles (1926)
CGE	Compagnie Générale d'Electricité (French electrical equipment manufacturer)
CGP	Commissariat Général du Plan (1946, France)
CGT	Confédération Générale du Travail (workers' association, France)
CNR	Conseil National de Résistance (in France)
CPE	Customer premises equipment (telecommunications)

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DB	Deutsche Bundesbahn (Federal West German railway enterprise, 1951)
DBP	Deutsche Bundespost (Federal West German post and telecommunications enterprise, 1951)
DR	Deutsche Reichsbahn (Imperial German railway, 1919)
ECSC	European Coal and Steel Community (1951)
EDF	Electricité de France (1946)
EC	European Community (1965, formed from merger of EEC, ECSC and Euratom)
EEC	European Economic Community (1957)
ELKRAFT	Danish electricity group supplying Zealand, 1978, formerly Kraftimport, established in 1954
ELSAM	Det Jysk-fynske Elsamarbejde (Electricity group supplying Jutland and Funen in Denmark, 1956)
ENDESA	Empresa Nacional de Electricidad (Spain, 1944)
ENEL	Ente Nazionale de l'Energia Elettrica (Italy, 1962)
ENHER	Empresa Hidroelectrica del Ribagorzana (Spain, 1946)
ENI	Ente Nazionale Idrocaruri (1953, Italian state financial company holding shares in AGIP and others)
EU	European Union (1993)
FFSS	Azienda Autonoma delie Ferrovie dello Stato (Italian state railways, 1905)
GDF	Gaz du France (1946)
gigawatt	one million kilowatts
HEP	hydroelectricity
HMSO	Her Majesty's Stationery Office (UK)
IATA	International Air Transport Association (1945)
INI	Instituto Nacional de Industria (Spain, 1941)
IRI	Istituto per la Ricostruzione Industriale (Italy, 1933)
ISDN	Integrated services digital network (telecommunications)
IT	inclusive tour
ITT	International Telephone and Telegraph (USA)
joule	one unit of energy (work done when one Newton moves one metre)
KLM	Koninklijke Luchtvaart Maatschappij (Royal Dutch Airlines, 1919)
km	kilometre
kV	kilovolt (a measure of the strength of electric current on a transmission line)
kW	kilowatt (1000 watts)
kWh	kilowatt hour

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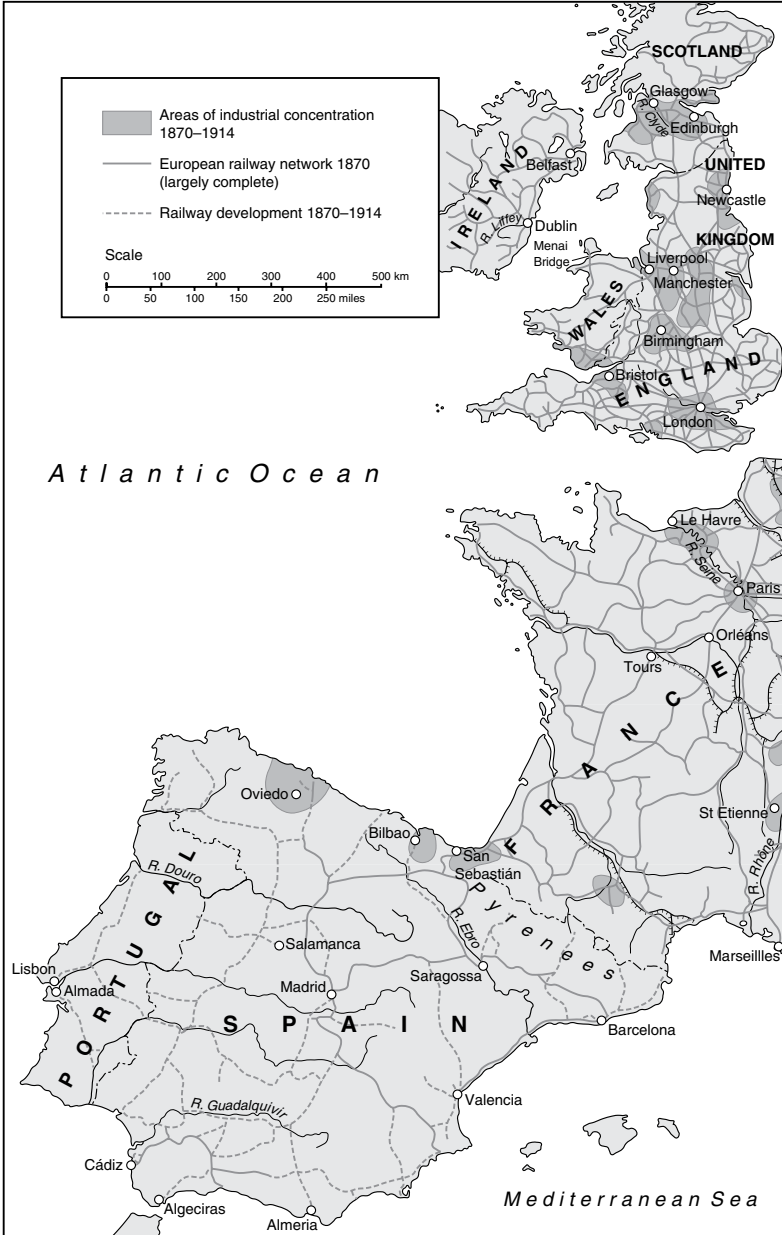
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MW	megawatt (1000 kilowatts)
NCB	National Coal Board (UK, 1947)
NESCO	Newcastle-upon-Tyne Electricity Supply Company
NTA	Telegrafstyret (National Telephone Authority, Norway)
NVE	Nordvestsjællands Elektricitet-Værk (Norwegian Waterways and Electricity Administration, 1920, renamed Statkraft in 1960)
OECD	Organisation for Economic Cooperation and Development
OPEC	Organisation of Petroleum Exporting Countries
petajoule	10 ¹⁵ joules, equivalent to approximately 27.1 million cubic metres (used in measure of natural gas)
PABX	Private automatic branch exchange (telecommunications)
P-L-M	Paris, Lyons, Méditerranée railway
P-O	Paris-Orleans railway
PSO	Public service obligation
PSTN	Public switching telephone network
PTO	Public telecom operators
PTT	Postes, Téléphone et Télégraphe (in France, similar abbreviation for Denmark and the Netherlands)
RENFE	Red Nacional de los Ferrocarriles Españoles (Spanish state railways, 1941)
RPTV	Reichspost- und Telegraphenverwaltung (1876, German imperial post and telegraph management)
RWE	Rheinisch-Westfälisches Elektrizitätswerk (mixed German enterprise, 1898)
SAS	Scandinavian Airlines System (1946)
SIP	Società Italiana per l'Esercizio Telefonico (1964, financial subsidiary of STET operating non-trunk telephone networks, formerly Società Idrolettrica Piemontese)
SJ	Statens Järnvägar (Swedish state railways, 1888)
SNCF	Société Nationale des Chemins de Fer Français (1937)
Statkraft	See NVE
Statsföretag	Swedish state holding company (1970, renamed Procordia in 1984)
STET	Società Finanziaria Telefonica (IRI financial subsidiary, holding shares in telephone companies, 1933)
Telefónica	Originally Compañía Telefónica Nacional de España established in Spain, 1924, and renamed Telefónica in 1984
Televerket	State telegraph and telephone board in Sweden (1853)

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terajoule	10^{12} joules
TFP	Total factor productivity
UN	United Nations
Vattenfall	Statens Vattenfallswerk (Swedish state electricity power board, 1909)
VANS	Value added network services (telecommunications)
VAS	Value added services (telecommunications)
VEBA	Vereinigten Elektrizität u. Bergwerk AG (1929, Germany)
VIAG	Vereinigte Industrieunternehmen AG (1923, Germany)



The European economy in 1914.

Source: G. Barraclough (ed.), *Times Atlas of World History* (London: Times Books, 5th edn, 1981), 212–13.

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