

Public Utilities Reports GUIDE

Table of Contents

Delivery of Service

Chapter 9

Providing Natural Gas Service

	3-4
History of Natural Gas Service	3-5
Structure of the Natural Gas Industry	3-6
Moving Natural Gas to Markets	3-8
Providing Service on Demand	3-10
Natural Gas Storage	3-11
LNG as a Storage Alternative	3-13
Canadian Gas Imports	3-15
Overview of Natural Gas Purchasing and Transportation Practices	3-16
The Beginnings of Open-Access Transportation	3-19
The Natural Gas Industry Today	3-25
Review Questions	3-27

Chapter 10

Providing Electric Service

	3-28
Generation Functions	3-28
Transmission and Distribution Functions	3-33
Future Trends in Consumption	3-35
The Rebirth of Nuclear Power	3-37
Clean Coal Technologies	3-38
Imports of Power	3-40
Review Questions	3-41

3-1

Chapter 11

Cogeneration and Independent Power Production

	3-43
Cogeneration Technologies	3-43
Traditional Users of Cogeneration	3-45
PURPA's Role in Promoting Cogeneration	3-45
Ownership of Cogeneration Projects	3-47
Electric Utilities and Cogeneration: A Balance of Interests	3-48
The Cogeneration Contract	3-51
PURPA Reform or Repeal	3-52
Merchant Plants	3-52
Independent Power Production	3-53
Defining Independent Power Producers	3-54
Energy Policy Act of 1992	3-56
FERC's Transmission Policies	3-57
The Scope of Nonutility Generation	3-60
Fuel Supply: The Role of Natural Gas	3-61
Independent Power and Competitive Bidding	3-63
Pricing, Reliability, and the Obligation to Serve	3-64
Review Questions	3-66

Chapter 12

Renewables—The Next Generation of Generation?

	3-67
Factors Giving Rise to Renewables Programs	3-67
Water Power	3-68
Wind Power	3-68
Solar Power	3-70
Geothermal Power	3-72
Biomass Power	3-74
Hydrokinetic Initiatives	3-75
Renewables Portfolio Standards Programs	3-77
Review Questions	3-80
Answers to Questions in Chapters 9–12	3-82