List of Figures

Figure 1.1	Access to Electricity in South Asian Countries, 2007–2020	2
Figure 1.2	Access to Clean Cooking Fuel in South Asian Countries, 2007–2020	3
Figure 2.1	Classification of Trade in Energy	9
Figure 2.2	The Approach of the Study	12
Figure 3.1	Afghanistan's Electricity Generation Capacity, 2010–2020	14
Figure 3.2	Afghanistan's Electricity Generation and Consumption Trends, 1990–2020	14
Figure 3.3	Bhutan's Electricity Generation Capacity, 2010–2020	15
Figure 3.4	Bhutan's Electricity Consumption and Generation, 1990–2020	16
Figure 3.5	Electricity Generation Capacity of Bangladesh, 2010–2020	17
Figure 3.6	Bangladesh's Electricity Consumption by Sector, 1990–2020	18
Figure 3.7	Bangladesh's Electricity Consumption and Generation, 1990–2020	19
Figure 3.8	India's Net Electricity Generation by Fuel Type, 2012–2021	20
Figure 3.9	India's Electricity Consumption by Sector, 1990–2020	21
Figure 3.10	India's Trend in Electricity Generation and Consumption, 1990–2020	22
Figure 3.11	Maldives' Electricity Generation, 2010–2020	23
Figure 3.12	Maldives' Electricity Generation and Consumption Trends, 1990–2020	24
Figure 3.13	Electricity Generation Mix of Nepal from Different Sources, 2010–2020	25
Figure 3.14	Nepal's Electricity Consumption by Sector, 1990–2020	25
Figure 3.15	Nepal's Electricity Consumption and Generation, 1990–2020	26
Figure 3.17	Pakistan's Electricity Consumption by Sector, 1990–2020	28
Figure 3.18	Sri Lanka's Electricity Generation by Sector, 2010–2020	29
Figure 3.19	Sri Lanka's Electricity Consumption by Sector, 1990–2020	29
Figure 3.20	India's Monthly Power Exchange with Bhutan and Nepal	33
Figure 5.1	Trajectory of Trade Benefits for Bhutan and India Based on Bhutan to India Electricity Trade. (a) GDP and (B) Welfare	43
Figure 5.2	Trajectory of Trade Benefits for Bhutan and India from Bhutan to India Electricity Trade Backed by Technology Upgradation in Bhutan: (a) GDP and (b) Welfare.	45

List of Tables

Table 3.1	Export and Import of Electricity in South Asian Countries, 2010–2021	32
Table 3.2	Existing Trade in Electricity with India in Bangladesh, Bhutan, and Nepal	33
Table 3.3	Cross-border Network Development Plan of India with Neighbours	34
Table 4.1	T&D Loss in South Asian Countries, 2010–2021	37
Table 5.1	Bilateral Electricity Trade Benefits (GDP and Welfare) from Bhutan to India	42
Table 5.2	Benefits (GDP and Welfare) from Bilateral Electricity from Bhutan to India	44
Table 5.3	Benefits (GDP and Welfare) from Bilateral Electricity from India to Bhutan	46
Table 5.4	Benefits (GDP and Welfare) from Bilateral Electricity from India to Bhutan Backed by Technology Upgradation	47
Table 5.5	Benefits (GDP and Welfare) from Bilateral Electricity from India to Bangladesh	48
Table 5.6	Benefits (GDP and Welfare) from Bilateral Electricity from India to Bangladesh Backed by Technology Upgradation	49
Table 5.7	Benefits (GDP and Welfare) from Bilateral Electricity from India to Sri Lanka	50
Table 5.8	Benefits (GDP and Welfare) from Bilateral Electricity from India to Sri Lanka Backed by Technology Upgradation	51
Table 5.9	Benefits (GDP and Welfare) from Bilateral Electricity from India to Nepal	52
Table 5.10	Benefits (GDP and Welfare) from Bilateral Electricity from India to Nepal Backed by Technology Upgradation	53
Table 5.11	Benefits (GDP and Welfare) from Bilateral Electricity from Nepal to Bangladesh	54
Table 5.12	Benefits (GDP and Welfare) from Bilateral Electricity from Nepal to Bangladesh Backed by Technology Upgradation	55
Table 5.13	Benefits (GDP and Welfare) from Bilateral Electricity from Bhutan to Bangladesh	56
Table 5.14	Benefits (GDP and Welfare) from Bilateral Electricity from Bhutan to Bangladesh Backed by Technology Upgradation	57

Table 5.15	Benefits (GDP and Welfare) from Bilateral Electricity from Pakistan to Afghanistan	58
Table 5.16	Benefits (GDP and Welfare) from Bilateral Electricity from Pakistan to Afghanistan Backed by Technology Upgradation	59
Table 5.17	GDP and Welfare Impact of Bhutan—India—Nepal Trilateral Trade in Electricity Only	60
Table 5.18	Bilateral Trade versus Multilateral Trade: Benefit Sharing across Countries	61