Appendix B Assessment Results by State

Appendix B

Assessment Results by State

This appendix contains the results of feasibility assessments of the 50 states of the United States. The state results are summarized in tables, Tables B-1 and B-2, to facilitate lookup of power potential values and comparison of these values among the states. Table B-1 presents power potentials in three groups. The first group includes the gross power potential and its subdivisions by power categories: developed, excluded, and available. The second group includes the total hydropower potential of feasible projects and its subdivisions into low power and small hydro power classes. The third group includes subdivisions of the low power hydropower potential into power classes corresponding to classes of low power technologies.

Table B-2 presents information corresponding to that presented in Table B-1 but as percentages of total values. In the first group of data, total gross power potential for the state is presented as a percentage of the total gross power potential for the country. This percentage is followed by values for developed, excluded, and available power categories as percentages of the state total gross power potential. In the second group of data, the first value is the total hydropower potential of feasible projects as a percentage of the gross available power potential. This value is followed by values for low power and small hydro feasible projects as percentages of the total hydropower potential of all feasible projects. The third group includes values for the three power classes of low power feasible projects as percentages of the total, low power, hydropower potential. Bolded values in this table indicate values higher than the national average, and values highlighted in blue indicate the largest subdivision.

The summary information in Tables B-1 and B-2 is followed by 50 sections, each devoted to a particular state. Each section has the same format, which includes the following tables and figures:

 Table of total, developed, federally excluded, environmentally excluded and other excluded, and available gross power potential by power class

- Pie charts showing the developed, excluded, and available fractions of the water energy resource site population and the corresponding fractions of the total gross power potential
- Table of gross power potential of available sites, gross power potential of feasible sites, and hydropower potential of feasible sites by power class
- Pie charts showing fractions of the feasible project population and the corresponding fractions of the total hydropower potential by power class
- Bar charts showing the distribution of the low power feasible project population and corresponding hydropower potential by hydropower ranges
- Bar charts showing the distribution of the small hydro feasible project population and corresponding hydropower potential by hydropower ranges
- Feasible project distribution map showing the locations of existing hydroelectric power plants and feasible project sites differentiated by power class.

The term "available" used in the tables and figures in this appendix only denotes the net amount of power potential after subtracting the amounts of developed and excluded power potential from the gross amount of power potential. The term "feasible" used in the tables and figures in this appendix refers to water energy resource sites and their corresponding gross power potential or hydropower potential as determined using the feasibility criteria and assessment methodology as described in Section 3, Technical Approach.

		Gross Potential				Hydropowe	r Potential	Low Power Hydropower Potential			
	Total	Developed	Excluded	Available	Total	Small Hydro	Low Power	Conventional Turbines	Unconventional Systems	Microhydro	
Name	(MWa)	(MWa)	(MWa)	(MWa)	(MWa)	(MWa)	(MWa)	(MWa)	(MWa)	(MWa)	Name
Alabama	3,171	1,036	66	2,070	462	311	150	40	48	62	Alabama
Naska	88,885	66	40,905	47,915	2,694	2,284	410	329	25	55	Alaska
Arizona	3,260	469	1,468	1,324	150	10	140	65	25	50	Arizona
Arkansas	5,697	347	464	4,886	590	405	185	58	47	80	Arkansas
California	26,611	2,074	12,211	12,325	3,425	2,283	1,141	880	44	217	California
Colorado	7,370	159	2,207	5,003	891	245	646	497	31	118	Colorado
Connecticut	430	42	38	350	105	61	44	25	3	16	Connecticut
Delaware	22	0	6	15	6	4	2	0	2	0	Delaware
lorida	464	0	104	359	79	51	27	0	15	12	Florida
Georgia 💮 💮	2,061	281	423	1,357	230	101	129	27	51	51	Georgia
lawaii	2,259	17	12	2,230	280	214	66	60	0	6	Hawaii
daho	19,088	1,442	7,540	10,105	2,122	1,515	607	390	44	173	Idaho
llinois	2,440	7	189	2,244	568	477	91	10	51	30	Illinois
ndiana	1,383	13	42	1,328	305	216	88	19	43	26	Indiana
owa	1,171	2	93	1,076	329	176	153	32	62	59	lowa
Kansas	932	1	6	925	295	98	197	72	54	71	Kansas
Kentucky	3,754	305	170	3,278	518	441	77	25	18	33	Kentucky
Louisiana	3,088	25	335	2,728	306	248	58	7	28	22	Louisiana
Maine	2,780	311	341	2,129	432	332	100	46	22	32	Maine
Maryland	761	5	233	523	91	57	34	20	2	12	Maryland
Massachusetts	673	35	127	511	136	104	33	18	1	14	Massachusett
Michigan	1,101	89	228	784	133	23	110	40	21	49	Michigan
Minnesota	1,433	153	484	797	140	56	84	18	31	35	Minnesota
Mississippi	2,823	0	281	2,542	298	194	104	9	59	36	Mississippi
Missouri	3,499	109	228	3,162	798	556	241	67	54	120	Missouri
Montana	12,456	1,091	4,460	6,904	1,669	876	793	541	92	160	Montana
Nebraska	1,177	34	101	1,041	354	81	273	161	42	70	Nebraska
Nevada	1,325	261	292	771	95	8	87	47	1	40	Nevada
New Hampshire	1,066	106	163	797	174	105	69	40	10	19	New Hampshir
New Jersey	261	6	55	200	63	44	20	7	2	10	New Jersey
New Mexico	1,674	5	532	1,136	156	13	143	83	14	46	New Mexico
New York	4,851	378	864	3,609	757	428	329	166	41	122	New York
North Carolina	2,731	402	384	1,944	348	199	150	69	28	53	North Carolina
North Dakota	261	78	6	178	40	16	24	3	7	13	North Dakota
Ohio	1,397	2	102	1,292	319	197	122	39	38	45	Ohio
Oklahoma	1,416	101	90	1,226	345	126	220	70	81	69	Oklahoma
Oregon	17,048	1,050	6,542	9,455	2,072	1,220	852	585	75	192	Oregon
Oregon Pennsγlvania	4,764	198	1,276	3,290	953	659	295	140	47	108	Pennsylvania
Rhode Island	36	1	4	30	7	000	7	5	0	2	Rhode Island
South Carolina	1,378	328	86	964	211	153	58	11	25	22	South Carolina
South Dakota	791	219	67	505	119	23	96	44	8	45	South Dakota
South Dakota Tennessee	5,295	848	444	4,003	655	481	174	64	49	61	Tennessee
rennessee Fexas	2,304	104	160	2,040	328	75	253	64	85	104	Texas
Jtah	3,906	123	856	2,927	401	36	365	258	22	86	Utah
/ermont	3,906 1,202	104	76	1,022	217	112	105		6	34	Vermont
	2,274	153	268	1,853	418	224	194	101	30	62	
√irginia Mashinatan											Virginia
Washington	33,620	11,006	9,088	13,526	3,106	2,263	843	601 90	87 17	155	Washington
West Virginia	3,533	193	879 101	2,461	484	339	146			39 46	West Virginia
Wisconsin	1,515	245	101	1,170	259	148	111	34	31	46	Wisconsin
Wyoming	5,999	59	2,746	3,195	507	160	347	256	20	71	Wyoming
J.S. Total	297,436	24,084	97,845	175,507	29,438	18,450	10,988	6,297	1,640	3,052	

B-4

Table B-2. Summary of power potentials of state water energy resources by category and power class as percentages of totals.

		Gross Po	otential		Feasible	e Hydropower f	otential		ower Hydropower P	otential	
								Conventional	Unconventional		
Name	Total³	Developed ^b	Excluded ^b	Available ^b	Total°	Small Hydro ^d	Low Powerd	Turbines ^e	Systems ^e	Microhydro ^e	Name
labama 💮	1%	33%	2%	65%	22%	67%	33%	27%	32%	41%	Alabama
daska	30%	0%	46%	54%	6%	85%	15%	80%	6%	14%	Alaska
rizona	1%	14%	45%	41%	11%	7%	93%	46%	18%	36%	Arizona
krkansas	2%	6%	8%	86%	12%	69%	31%	31%	25%	43%	Arkansas
alifornia	9%	8%	46%	46%	28%	67%	33%	77%	4%	19%	California
Colorado	2%	2%	30%	68%	18%	27%	73%	77%	5%	18%	Colorado
Connecticut	0%	10%	9%	81%	30%	58%	42%	57%	8%	36%	Connecticut
)elaware	0%	0%	30%	70%	37%	65%	35%	0%	80%	20%	Delaware
lorida	0%	0%	22%	77%	22%	65%	35%	0%	57%	43%	Florida
eorgia	1%	14%	21%	66%	17%	44%	56%	21%	39%	39%	Georgia
ławaii	1%	1%	1%	99%	13%	76%	24%	91%	0%	9%	Hawaii
daho	6%	8%	40%	53%	21%	71%	29%	64%	7%	28%	Idaho
linois	1%	0%	8%	92%	25%	84%	16%	11%	57%	33%	Illinois
ndiana	0%	1%	3%	96%	23%	71%	29%	21%	49%	30%	Indiana
owa	0%	0%	8%	92%	31%	53%	47%	21%	41%	38%	lowa
(ansas	0%	0%	1%	99%	32%	33%	67%	37%	27%	36%	Kansas
(entucky	1%	8%	5%	87%	16%	85%	15%	33%	24%	43%	Kentucky
ouisiana	1%	1%	11%	88%	11%	81%	19%	13%	50%	38%	Louisiana
/laine	1%	11%	12%	77%	20%	77%	23%	46%	22%	32%	Maine
/laryland	0%	1%	31%	69%	17%	63%	37%	59%	6%	35%	Maryland
1assachusetts	0%	5%	19%	76%	27%	76%	24%	54%	4%	42%	Massachusetts
1ichigan	0%	8%	21%	71%	17%	17%	83%	36%	19%	44%	Michigan
/linnesota	0%	11%	34%	56%	18%	40%	60%	22%	37%	41%	Minnesota
1ississippi	1%	0%	10%	90%	12%	65%	35%	8%	57%	35%	Mississippi
/lissouri	1%	3%	7%	90%	25%	70%	30%	28%	22%	50%	Missouri
/lontana	4%	9%	36%	55%	24%	52%	48%	68%	12%	20%	Montana
lebraska	0%	3%	9%	88%	34%	23%	77%	59%	15%	26%	Nebraska
levada	0%	20%	22%	58%	12%	8%	92%	53%	1%	46%	Nevada
lew Hampshire	0%	10%	15%	75%	22%	60%	40%	58%	14%	28%	New Hampshire
lew Jersev	0%	2%	21%	77%	32%	69%	31%	38%	12%	50%	New Jersey
lew Mexico	1%	0%	32%	68%	14%	8%	92%	58%	10%	32%	New Mexico
lew York	2%	8%	18%	74%	21%	57%	43%	50%	13%	37%	New York
Vorth Carolina	1%	15%	14%	71%	18%	57%	43%	46%	19%	35%	North Carolina
lorth Dakota	0%	30%	2%	68%	22%	41%	59%	13%	30%	57%	North Dakota
Ohio	0%	0%	7%	92%	25%	62%	38%	32%	31%	37%	Ohio
Oklahoma	0%	7%	6%	87%	28%	36%	64%	32%	37%	32%	Oklahoma
)regon	6%	6%	38%	55%	22%	59%	41%	69%	9%	22%	Oregon
Pennsγlvania	2%	4%	27%	69%	29%	69%	31%	48%	16%	37%	Pennsylvania
Rhode Island	0%	3%	11%	86%	22%	0%	100%	72%	3%	25%	Rhode Island
South Carolina	0%	24%	6%	70%	22%	73%	27%	19%	43%	38%	South Carolina
South Dakota	0%	28%	8%	64%	24%	20%	80%	45%	8%	47%	South Dakota
ennessee	2%	16%	8%	76%	16%	73%	27%	37%	28%	35%	Tennessee
ennessee exas	1%	5%	7%	70% 89%	16%	23%	77%	25%	34%	41%	Texas
exas Itah	1%	3%	22%	75%	14%	9%	91%	71%	54 m 6%	23%	Utah
/ermont	0%	9%	22 % 6%	75% 85%	21%	52%	48%	62%	5%	32%	Vermont
irginia	1%	7%	12%	81%	23%	54%	46%	52%	16%	32%	Virginia
×	11%	33%	12% 27%	81% 40%	23%	54% 73 %	27%	52% 71%	10%		X
Vashington			27% 25%	40% 70 %						18%	Washington
Vest Virginia	1%	5%			20%	70 %	30%	62%	12%	27%	West Virginia
Visconsin	1%	16%	7%	77%	22% 100/	57%	43%	30%	28%	42%	Wisconsin
Vyoming	2%	1%	46%	53%	16%	32%	68%	74%	6%	20%	Wyoming
.S. Average		8%	33%	59%	17%	63%	37%	57%	15%	28%	

Regional percentage of U.S. total gross power potential
 Percentage of state total gross power potential
 Percentage of state available gross power potential
 Percentage of state total hydropower potential
 Percentage of state low power hydropower potential

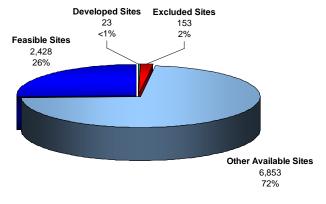
Note 1: Bolded figures indicate values greater than or equal to the U.S. average. Note 2: Blue background indicates constituent with the largest percentage.

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B.1 Alabama

Table B-3. Summary of results of water energy resource assessment of Alabama.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	3,171	1,036	42	24	2,070
Total High Power	2,332	1,032	31	18	1,250
Large Hydro	1,404	957	0	0	446
Small Hydro	929	75	31	18	804
Total Low Power	839	3	10	6	820
Conventional Turbines	490	2	7	4	478
Unconventional Systems	93	1	1	0	90
Microhydro	256	0	2	2	252



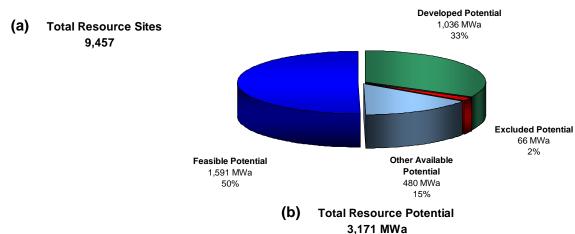
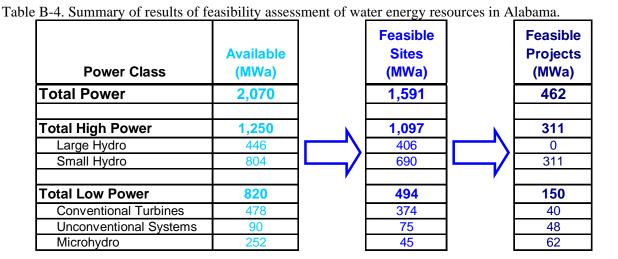
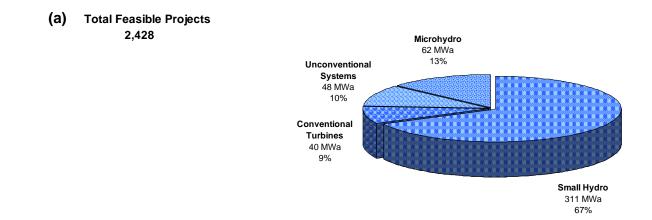


Figure B-1. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Alabama.



Small Hydro
60
2%
Turbines
163
7%
Unconventional
Systems
197
8%



(b)

Total Feasible Project Hydropower Potential 462 MWa

Figure B-2. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Alabama with the low power projects divided into technology classes.

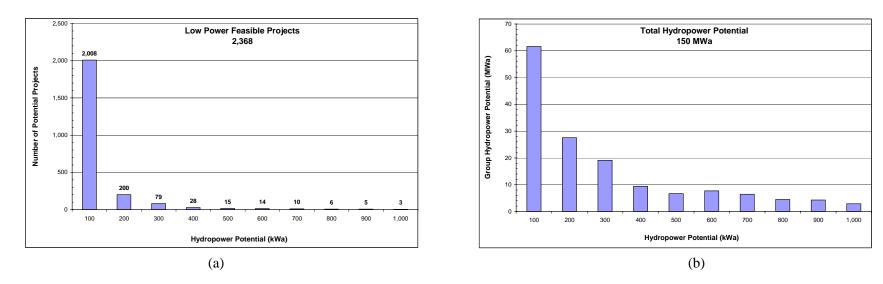


Figure B-3. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Alabama.

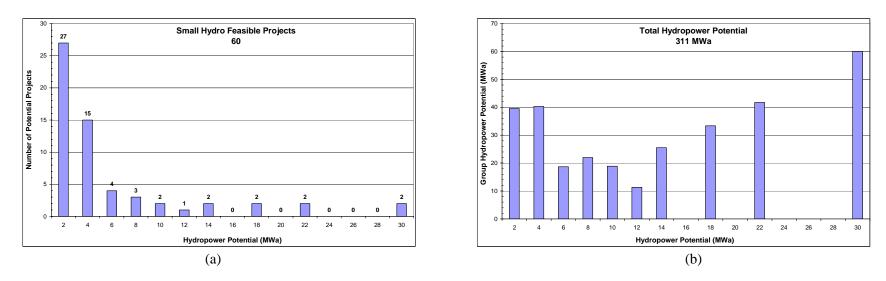


Figure B-4. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Alabama.

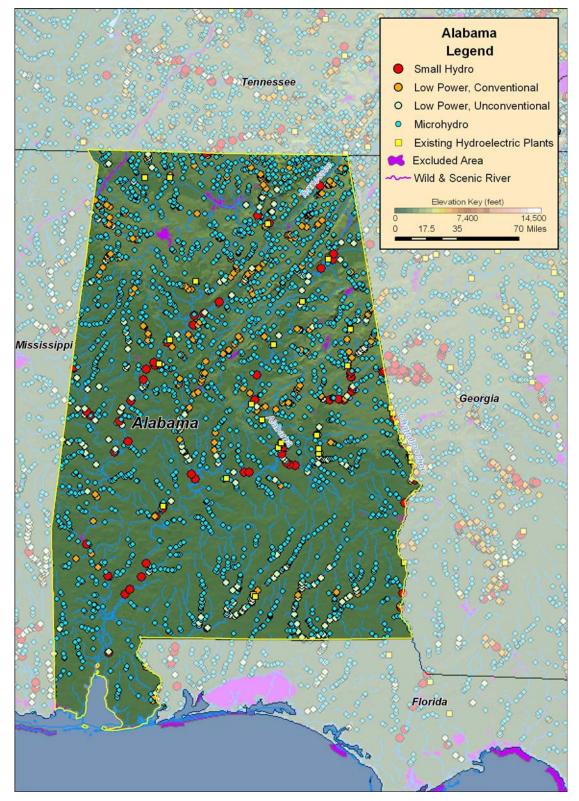


Figure B-5. Low power and small hydropower feasible projects, and existing hydroelectric plants in Alabama.

B.2 Alaska

Table B-5. Summary of results of water energy resource assessment of Alaska.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	88,885	66	39,125	1,780	47,915
Total High Power	74,329	60	33,086	1,678	39,505
Large Hydro	25,131	0	11,860	1,006	12,266
Small Hydro	49,197	60	21,226	672	27,239
Total Low Power	14,556	5	6,039	102	8,410
Conventional Turbines	11,858	5	5,089	82	6,682
Unconventional Systems	694	0	269	4	420
Microhydro	2,005	0	681	16	1,307

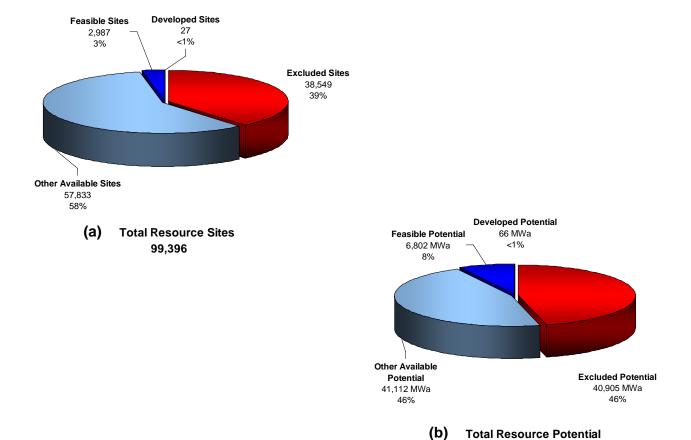
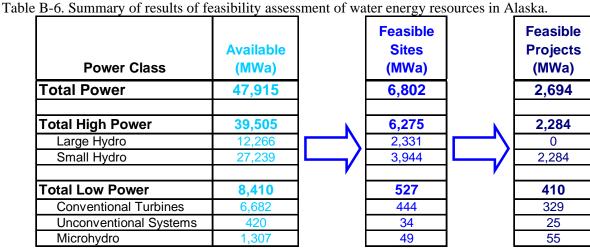


Figure B-6. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Alaska.

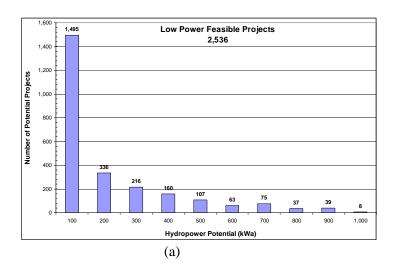
88,885 MWa



Small Hydro Microhydro 451 1,495 15% 50% Conventional Turbines Unconventional 957 Systems 32% 84 3% Unconventional (a) Microhydro **Total Feasible Projects** Systems 55 MWa Conventional 2,987 25 MWa Turbines 1% 329 MWa 12% Small Hydro 2,284 MWa 85% (b)

Total Feasible Project Hydropower Potential 2,694 MWa

Figure B-7. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Alaska with the low power projects divided into technology classes.



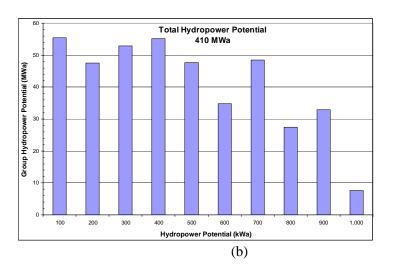
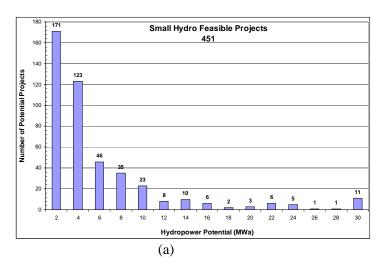


Figure B-8. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Alaska.



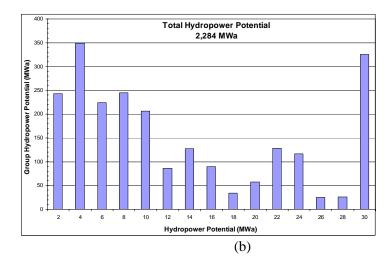


Figure B-9. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Alaska.

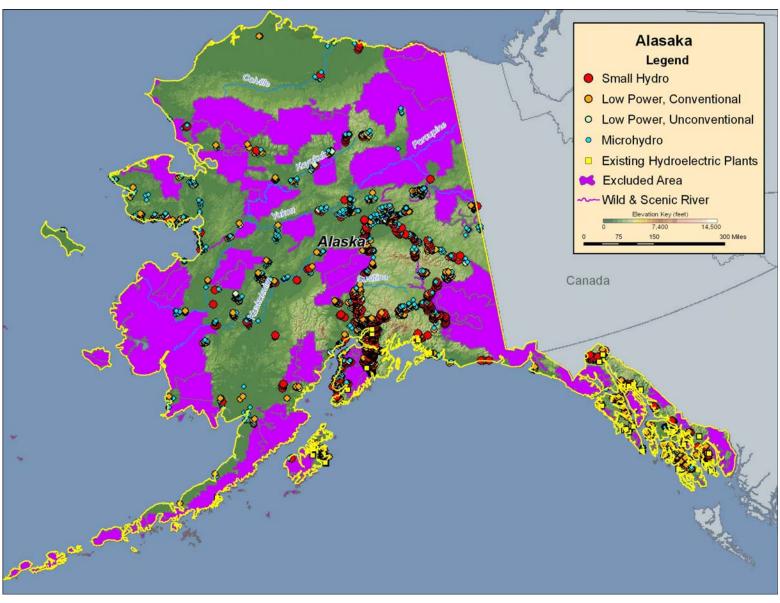
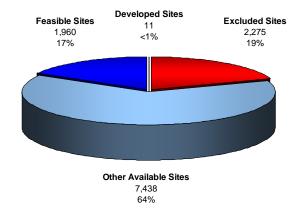


Figure B-10. Low power and small hydropower feasible projects, and existing hydroelectric plants in Alaska.

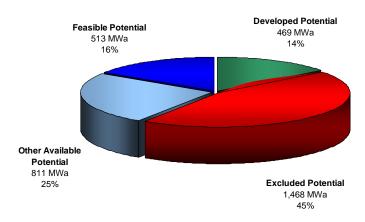
B.3 Arizona

Table B-7. Summary of results of water energy resource assessment of Arizona.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	3,260	469	1,200	268	1,324
Total High Power	2,109	466	988	200	454
Large Hydro	594	441	35	118	0
Small Hydro	1,515	25	953	82	454
Total Low Power	1,152	2	212	68	869
Conventional Turbines	814	2	164	51	597
Unconventional Systems	49	0	10	4	35
Microhydro	288	0	38	13	237

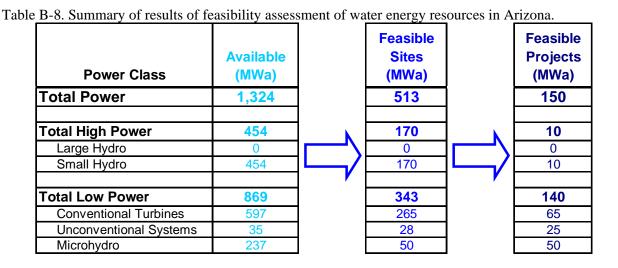






(b) Total Resource Potential 3,260 MWa

Figure B-11. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Arizona.



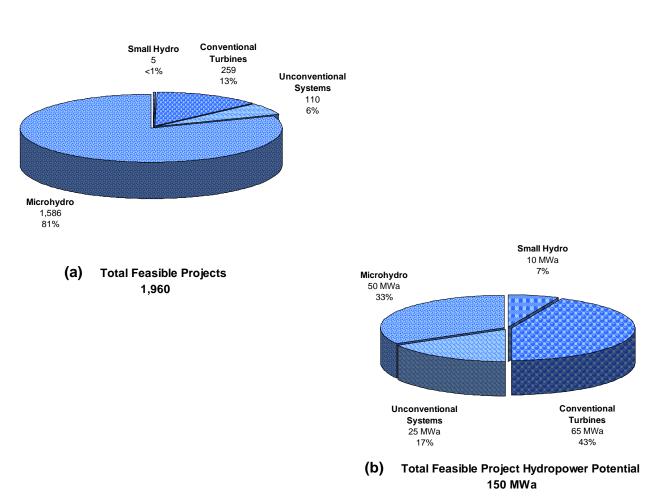


Figure B-12. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Arizona with the low power projects divided into technology classes.

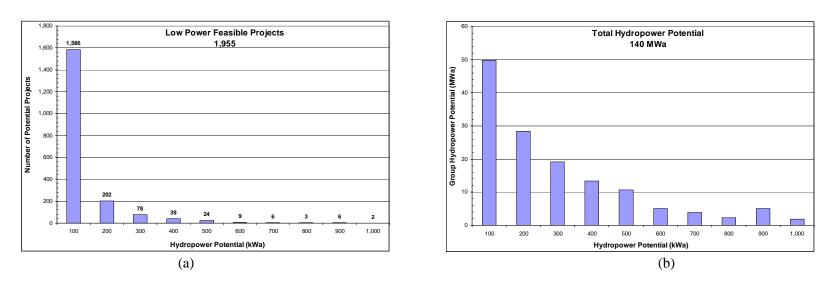


Figure B-13. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Arizona.

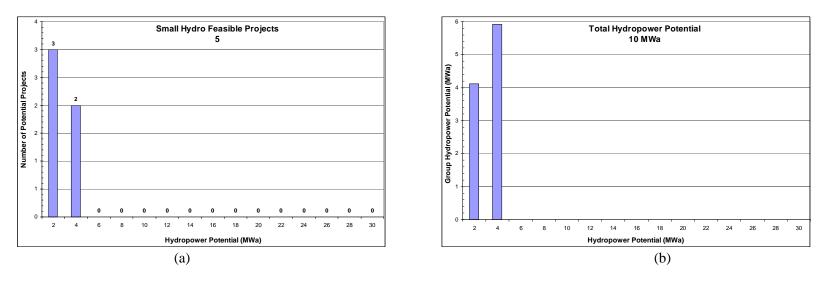


Figure B-14. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Arizona.

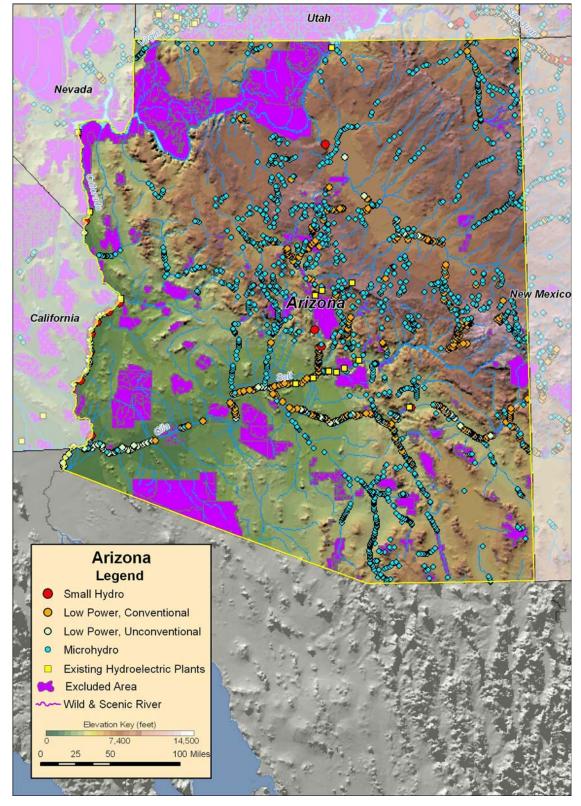
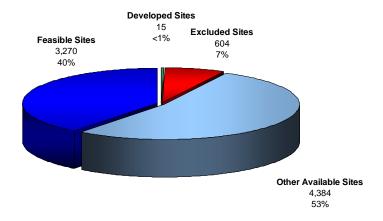


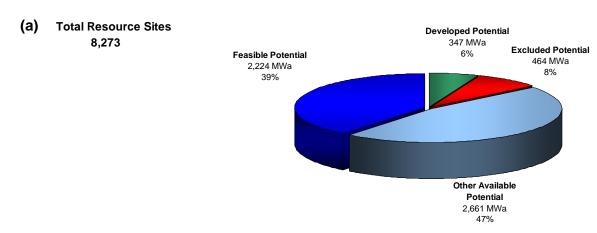
Figure B-15. Low power and small hydropower feasible projects, and existing hydroelectric plants in Arizona.

B.4 Arkansas

Table B-9. Summary of results of water energy resource assessment of Arkansas.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	5,697	347	385	79	4,886
Total High Power	4,819	347	307	55	4,110
Large Hydro	3,607	230	166	0	3,211
Small Hydro	1,212	117	141	55	899
Total Low Power	878	0	78	24	776
Conventional Turbines	547	0	63	11	473
Unconventional Systems	117	0	7	9	101
Microhydro	214	0	8	4	202





(b)

Total Resource Potential 5,697 MWa

Figure B-16. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Arkansas.

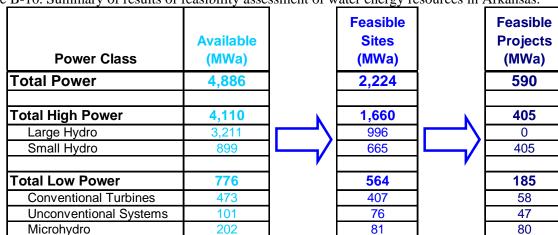
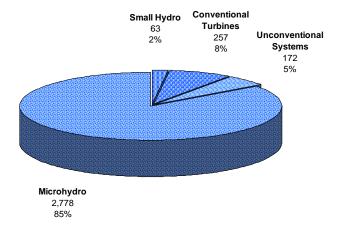
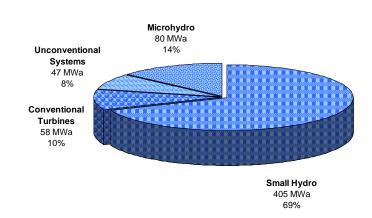


Table B-10. Summary of results of feasibility assessment of water energy resources in Arkansas.

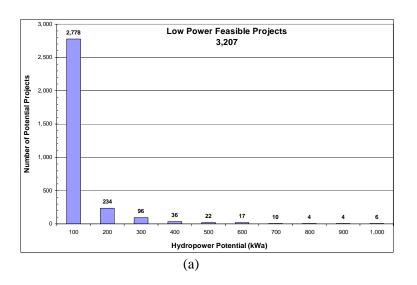






(b) **Total Feasible Project Hydropower Potential** 590 MWa

Figure B-17. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Arkansas with the low power projects divided into technology classes.



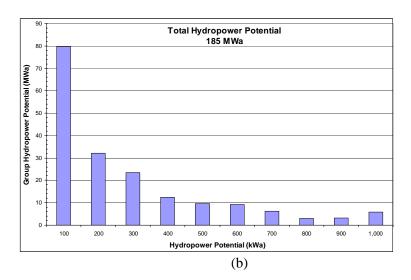
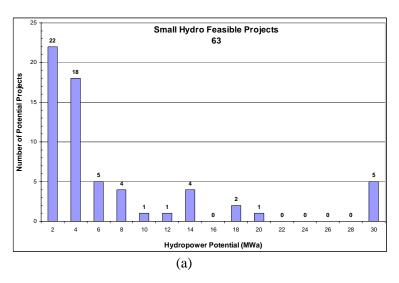


Figure B-18. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Arkansas.



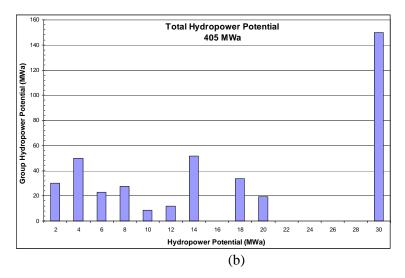


Figure B-19. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Arkansas.

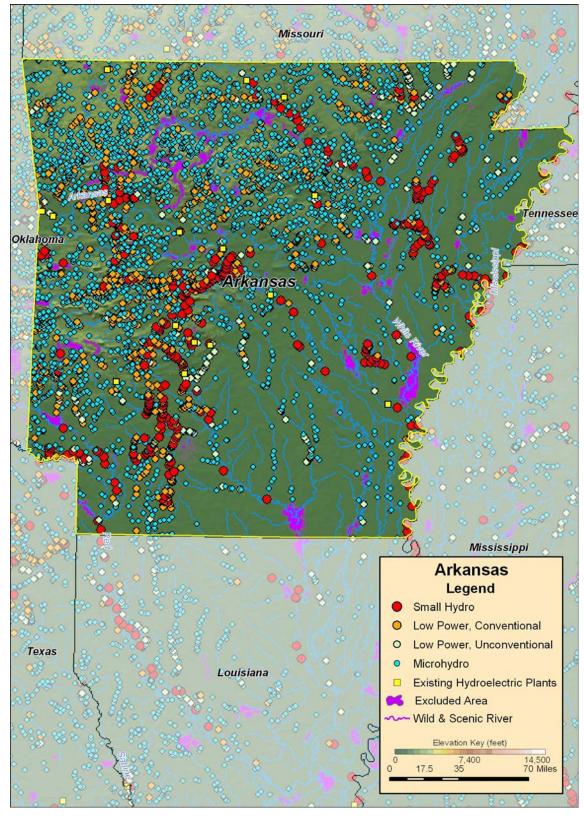
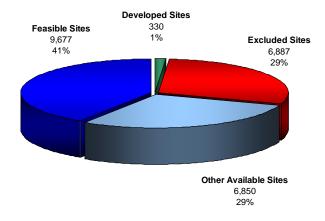


Figure B-20. Low power and small hydropower feasible projects, and existing hydroelectric plants in Arkansas.

B.5 California

Table B-11. Summary of results of water energy resource assessment of California.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	26,611	2,074	11,056	1,155	12,325
Total High Power	22,937	2,030	10,126	976	9,806
Large Hydro	4,816	1,155	1,598	407	1,656
Small Hydro	18,122	875	8,528	568	8,151
Total Low Power	3,674	45	930	180	2,519
Conventional Turbines	3,161	39	839	148	2,134
Unconventional Systems	101	2	22	6	71
Microhydro	412	4	69	26	314





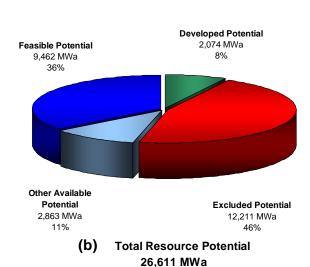
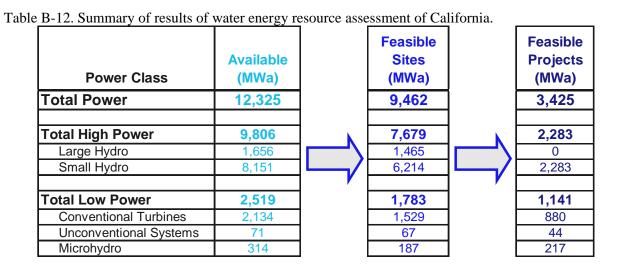


Figure B-21. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in California.



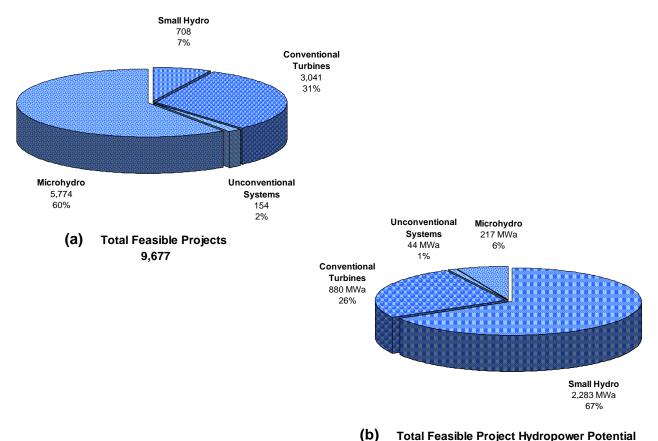
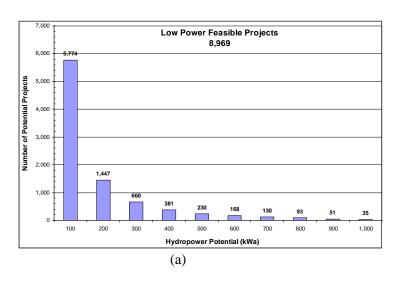


Figure B-22. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in California with the low power projects divided into technology classes.

3,425 MWa



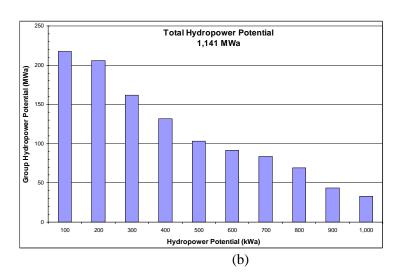
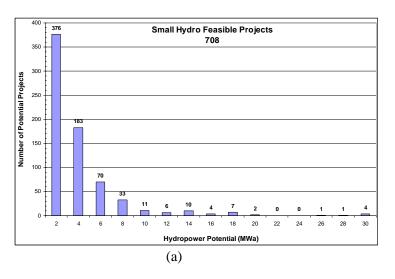


Figure B-23. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in California.



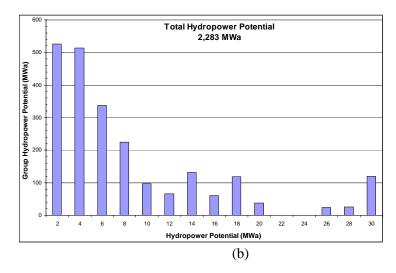


Figure B-24. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in California.

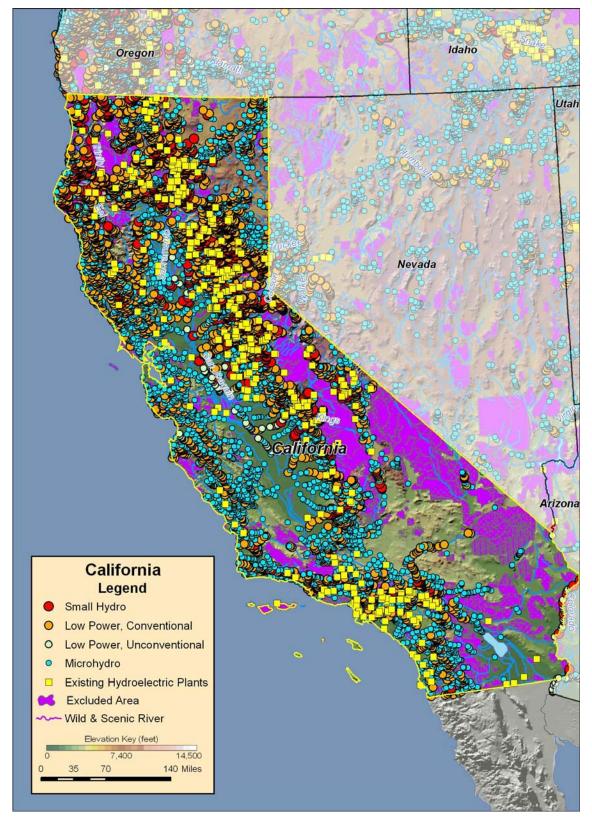


Figure B-25. Low power and small hydropower feasible projects, and existing hydroelectric plants in California.

B.6 Colorado

Table B-13. Summary of results of water energy resource assessment of Colorado.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	7,370	159	1,817	391	5,003
Total High Power	4,930	149	1,420	263	3,099
Large Hydro	261	80	180	0	0
Small Hydro	4,670	68	1,240	263	3,099
Total Low Power	2,439	11	397	128	1,904
Conventional Turbines	2,090	10	375	104	1,600
Unconventional Systems	64	0	6	9	49
Microhydro	285	0	16	15	255

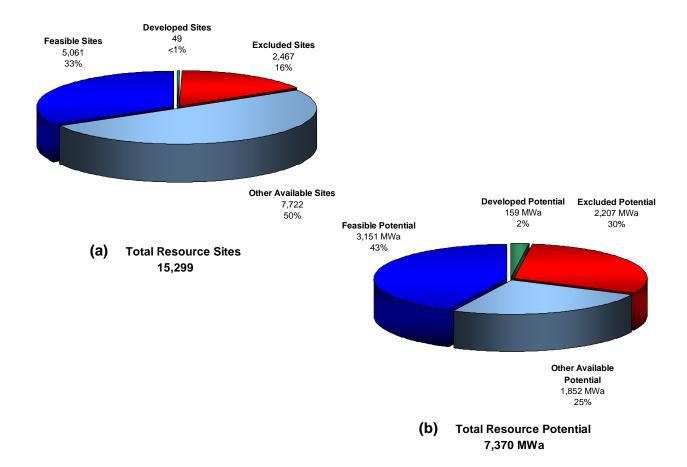
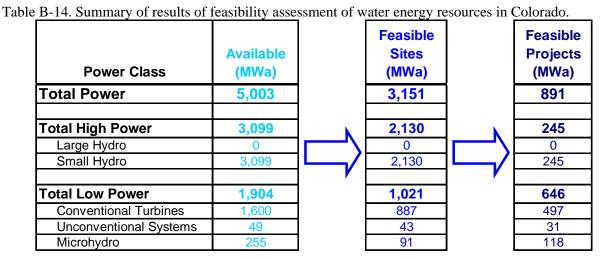
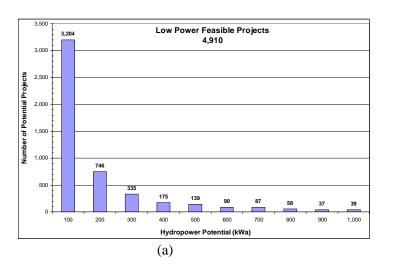


Figure B-26. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Colorado.



Small Hydro 151 Conventional 3% Turbines 1,587 Unconventional Microhydro **Systems** 3,204 119 63% 2% Microhydro Small Hydro 118 MWa 245 MWa (a) **Total Feasible Projects** Unconventional 13% 27% Systems 5,061 31 MWa 4% Conventional Turbines 497 MWa 56% (b) **Total Feasible Project Hydropower Potential** 891 MWa

Figure B-27. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Colorado with the low power projects divided into technology classes.



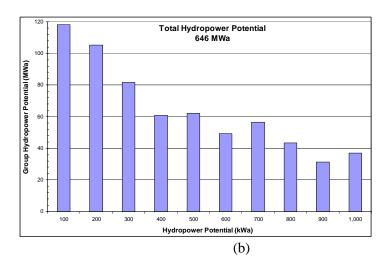
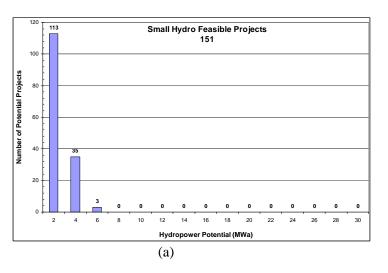


Figure B-28. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Colorado.



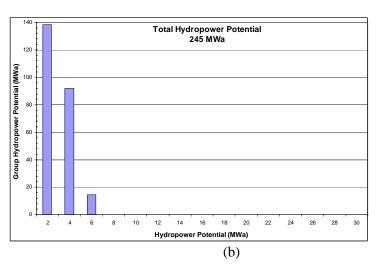


Figure B-29. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Colorado.

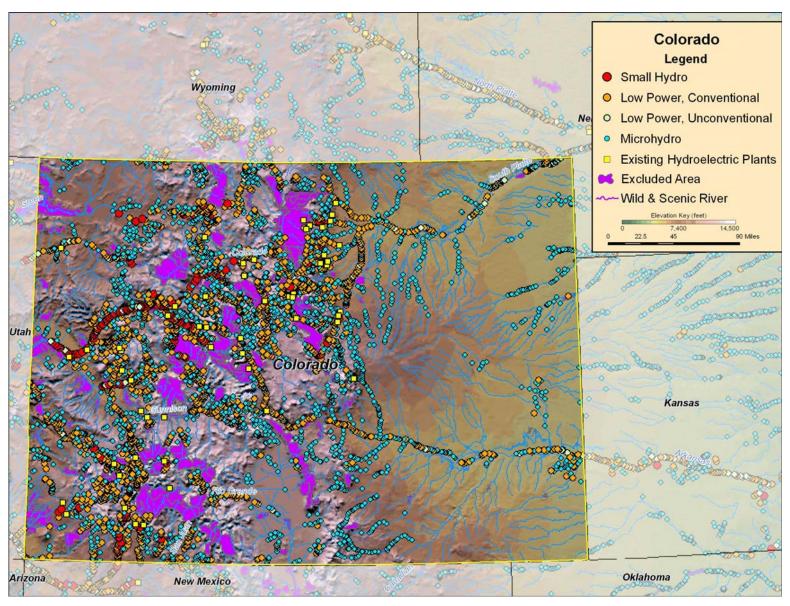


Figure B-30. Low power and small hydropower feasible projects, and existing hydroelectric plants in Colorado.

B.7 Connecticut

Table B-15. Summary of results of water energy resource assessment of Connecticut.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	430	42	13	25	350
Total High Power	273	37	12	11	213
Large Hydro	0	0	0	0	0
Small Hydro	273	37	12	11	213
Total Low Power	157	5	1	14	137
Conventional Turbines	122	3	1	12	105
Unconventional Systems	11	2	0	1	8
Microhydro	25	0	0	1	23

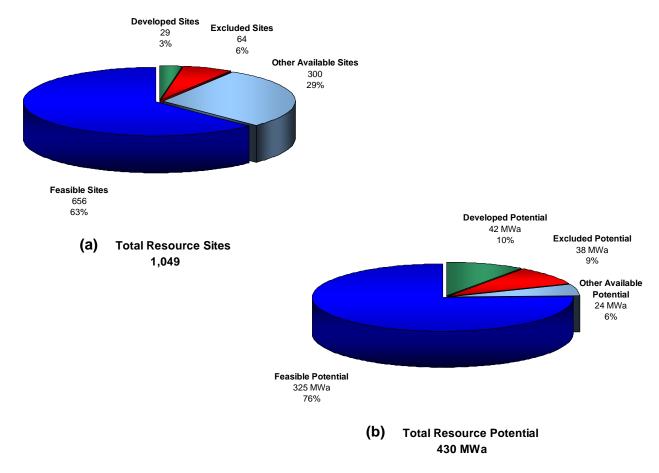
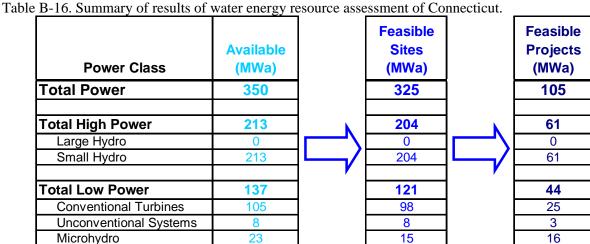
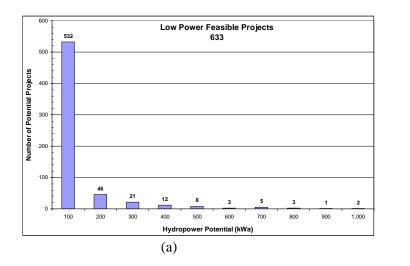


Figure B-31. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Connecticut.



Small Hydro Conventional 23 **Turbines** 4% 14% Unconventional Systems 12 2% Microhydro 532 81% (a) **Total Feasible Projects** Microhydro 656 16 MWa Unconventional 15% Systems 3 MWa 3% Conventional Turbines **Small Hydro** 25 MWa 61 MWa 24% (b) **Total Feasible Project Hydropower Potential** 105 MWa

Figure B-32. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Connecticut with the low power projects divided into technology classes.



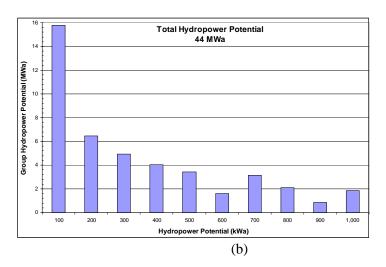
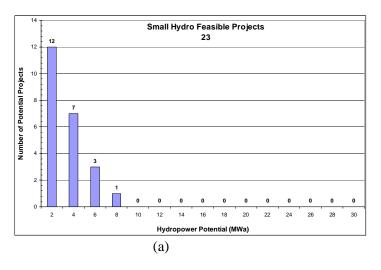


Figure B-33. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Connecticut



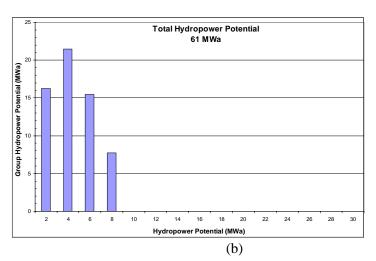


Figure B-34. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Connecticut.

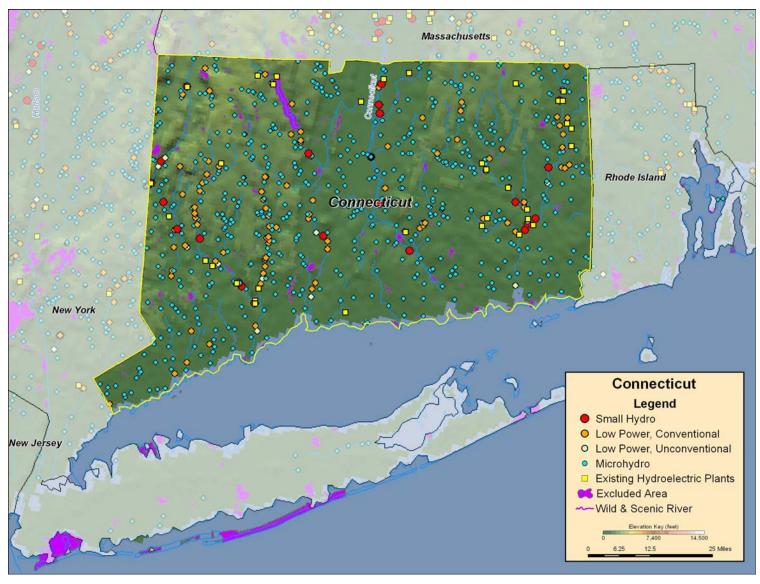


Figure B-35. Low power and small hydropower feasible projects, and existing hydroelectric plants in Connecticut.

B.8 Delaware

Table B-17. Summary of results of water energy resource assessment of Delaware.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	22	0	0	6	15
Total High Power	14	0	0	5	10
Large Hydro	0	0	0	0	0
Small Hydro	14	0	0	5	10
Total Low Power	7	0	0	2	5
Conventional Turbines	3	0	0	1	2
Unconventional Systems	1	0	0	0	1
Microhydro	3	0	0	1	2

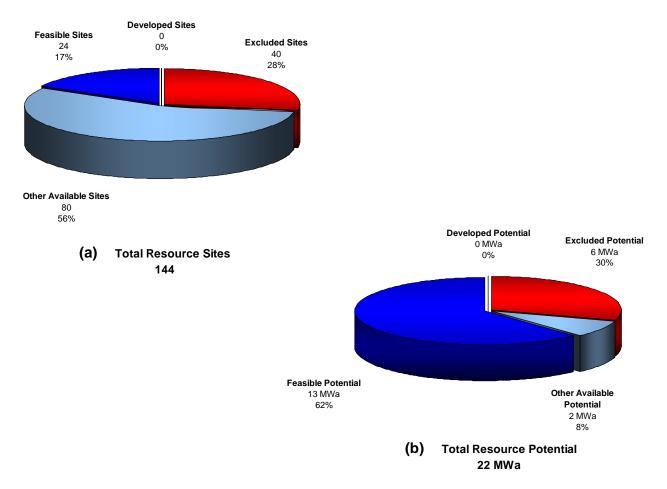


Figure B-36. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Delaware.

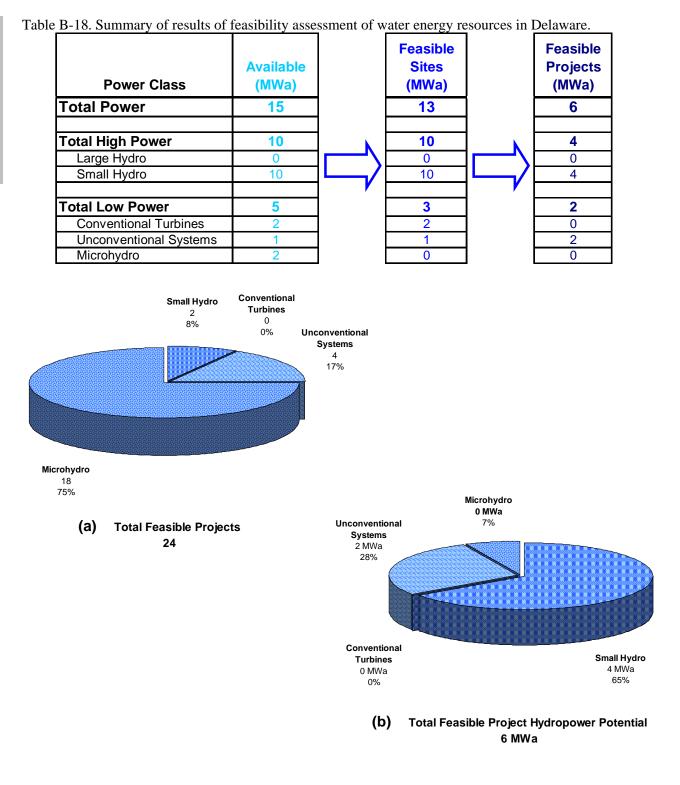


Figure B-37. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Delaware with the low power projects divided into technology classes.

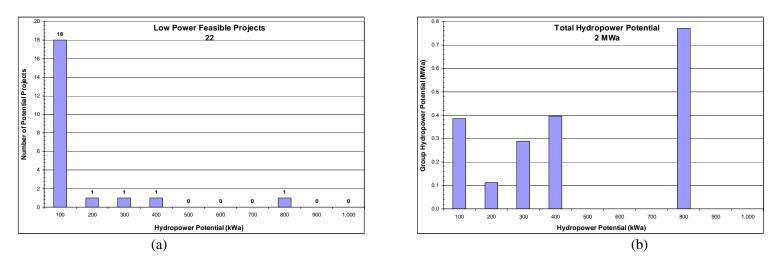


Figure B-38. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Delaware.

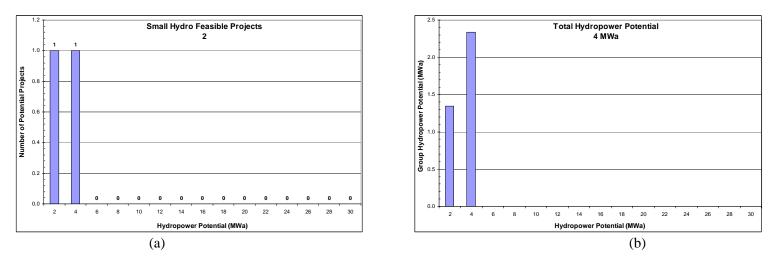


Figure B-39. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Delaware.

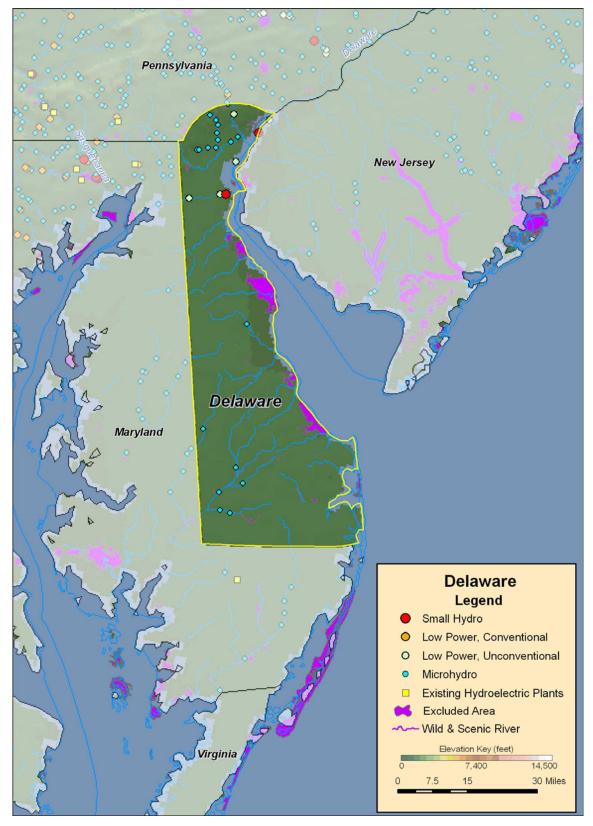


Figure B-40. Low power and small hydropower feasible projects, and existing hydroelectric plants in Delaware.

B.9 Florida

Table B-19. Summary of results of water energy resource assessment of Florida.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	464	0	14	90	359
Total High Power	250	0	6	42	201
Large Hydro	36	0	0	0	36
Small Hydro	213	0	6	42	165
Total Low Power	214	0	8	48	158
Conventional Turbines	55	0	2	9	44
Unconventional Systems	73	0	4	23	47
Microhydro	85	0	2	16	68

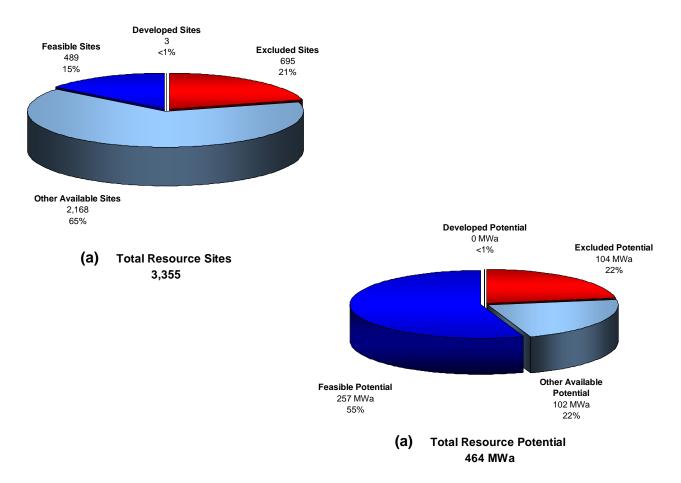
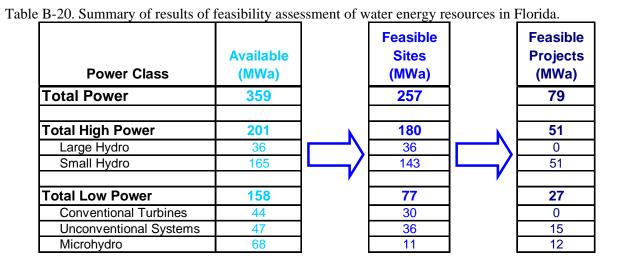


Figure B-41. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Florida.



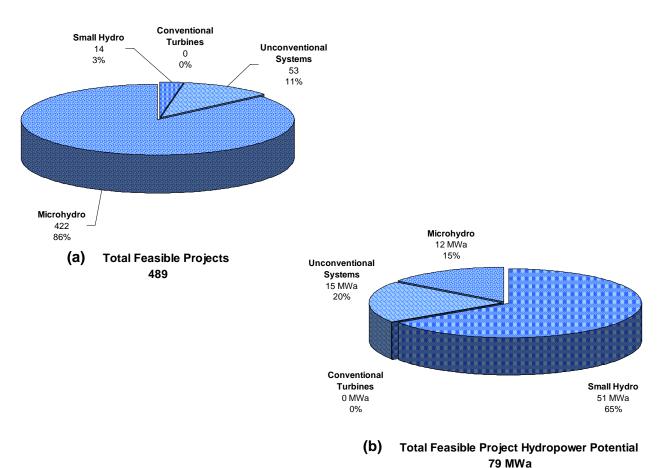


Figure B-42. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Florida with the low power projects divided into technology classes.

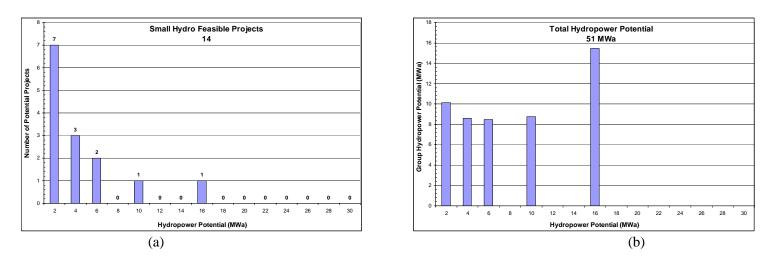


Figure B-43. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Florida.

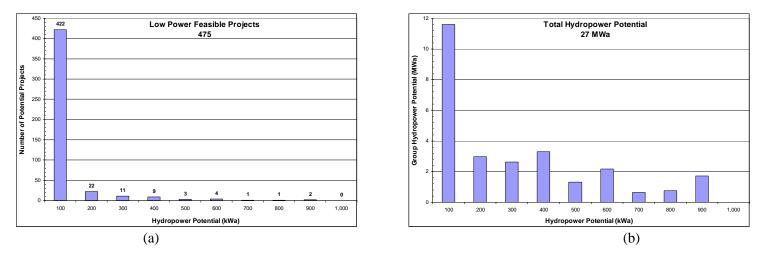


Figure B-44. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Florida.

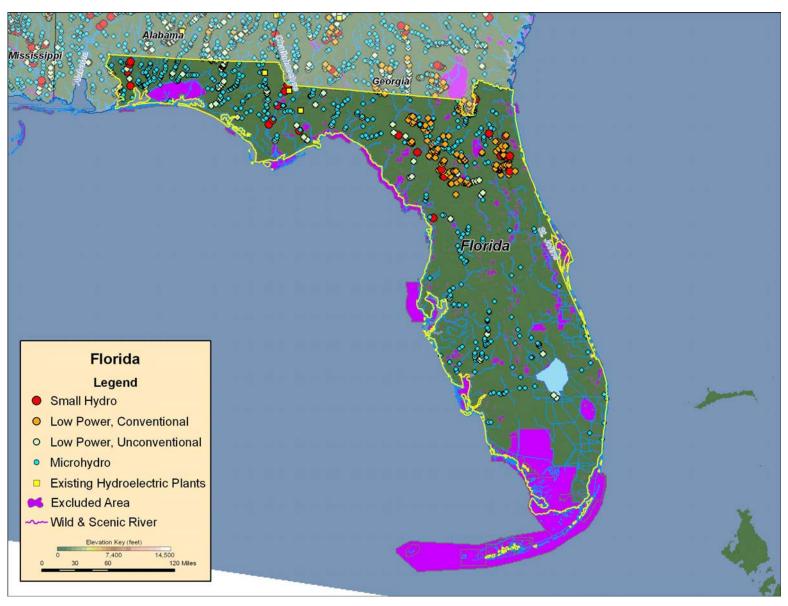


Figure B-45. Low power and small hydropower feasible projects, and existing hydroelectric plants in Florida.

B.10 Georgia

Table B-21. Summary of results of water energy resource assessment of Georgia.

	Total	Developed	Federally Excluded	Other Excluded	Available
Power Class	(MWa)	(MWa)	(MWa)	(MWa)	(MWa)
Total Power	2,061	281	190	233	1,357
Total High Power	1,272	277	172	165	658
Large Hydro	222	142	42	0	37
Small Hydro	1,050	134	130	165	621
Total Low Power	789	5	18	68	699
Conventional Turbines	444	4	13	44	383
Unconventional Systems	123	1	3	12	107
Microhydro	223	0	2	11	209

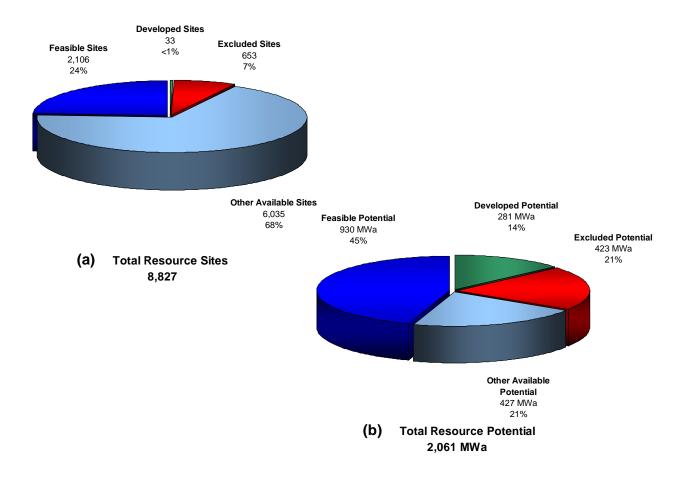
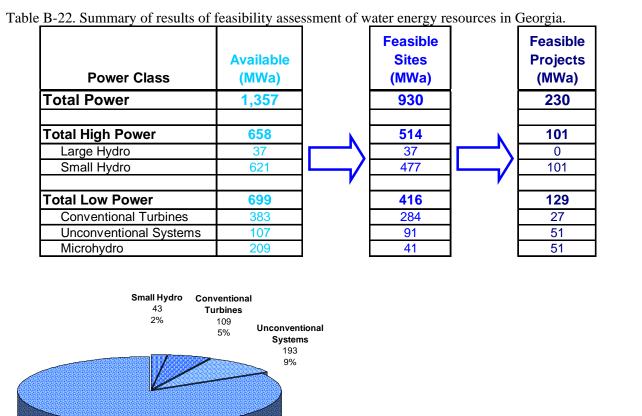


Figure B-46. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Georgia.



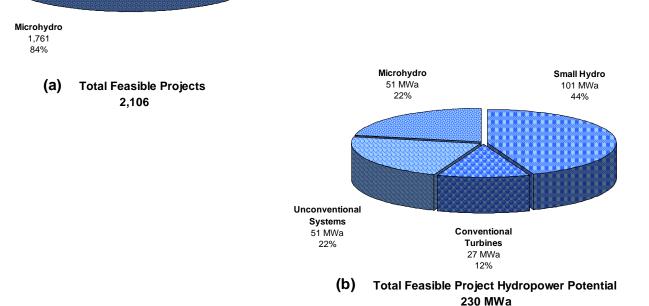
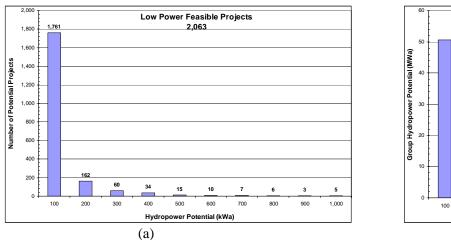


Figure B-47. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Georgia with the low power projects divided into technology classes.



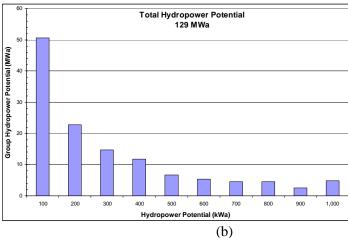
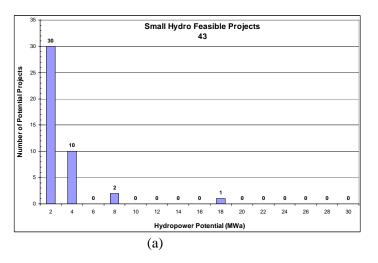


Figure B-48. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Georgia.



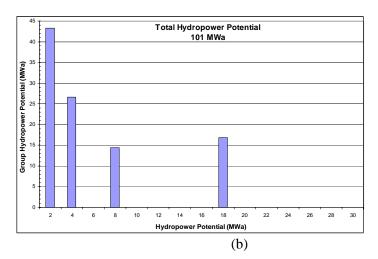


Figure B-49. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Georgia.

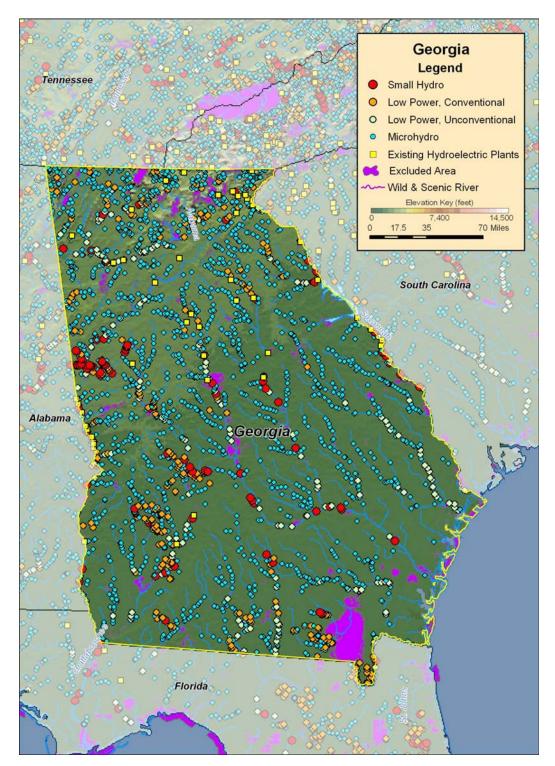


Figure B-50. Low power and small hydropower feasible projects, and existing hydroelectric plants in Georgia.

B.11 Hawaii

Table B-23. Summary of results of water energy resource assessment of Hawaii.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	2,259	17	12	0	2,230
Total High Power	2,102	15	11	0	2,077
Large Hydro	382	0	0	0	382
Small Hydro	1,720	15	11	0	1,695
Total Low Power	157	2	1	0	154
Conventional Turbines	149	2	1	0	147
Unconventional Systems	0	0	0	0	0
Microhydro	7	0	0	0	7

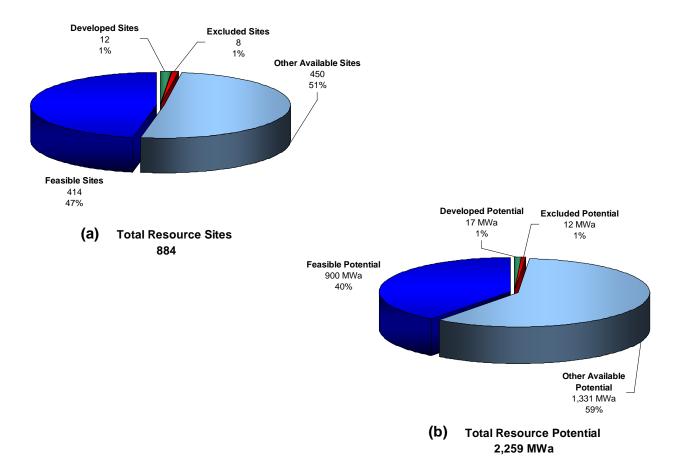
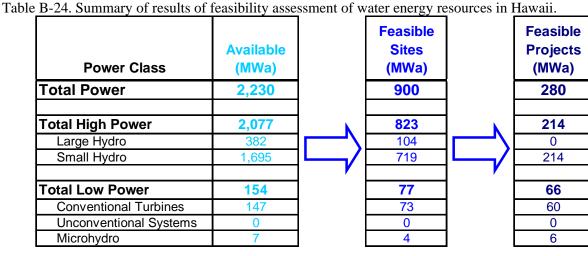


Figure B-51. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Hawaii.



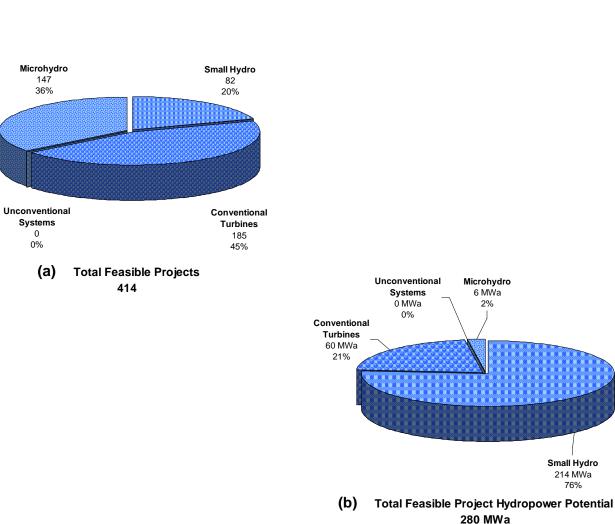
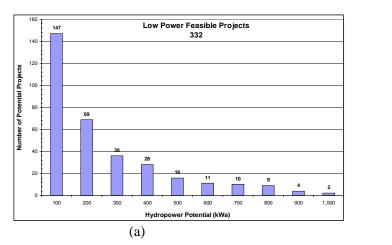


Figure B-52. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Hawaii with the low power projects divided into technology classes.



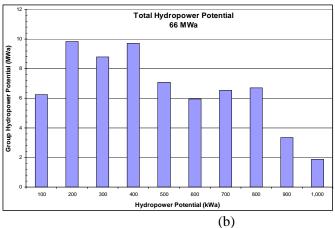
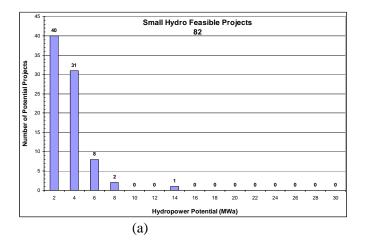


Figure B-53. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Hawaii.



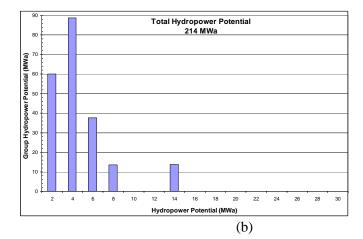


Figure B-54. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Hawaii.

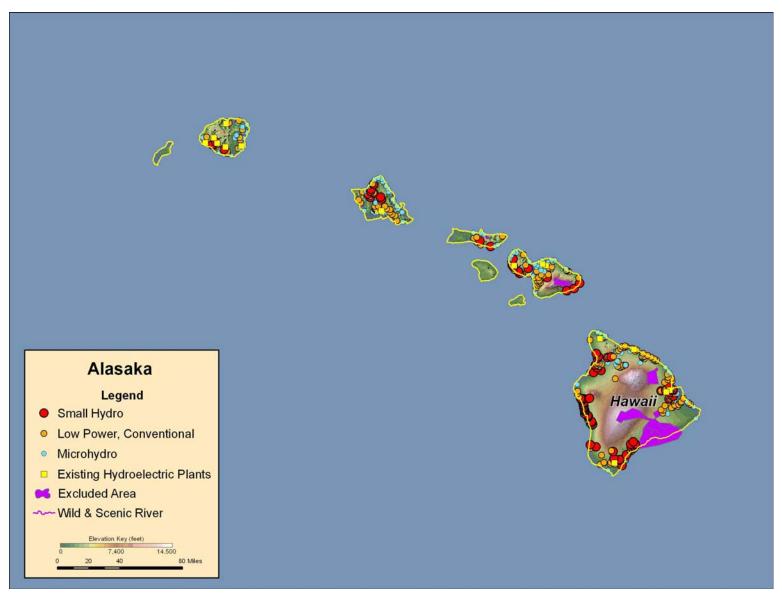
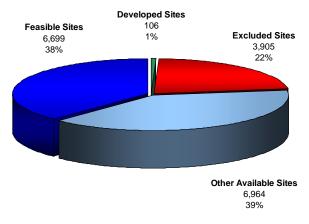


Figure B-55. Low power and small hydropower feasible projects, and existing hydroelectric plants in Hawaii.

B.12 Idaho

Table B-25. Summary of results of water energy resource assessment of Idaho.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	19,088	1,442	5,511	2,029	10,105
Total High Power	15,996	1,428	4,994	1,762	7,812
Large Hydro	4,238	1,181	1,023	339	1,695
Small Hydro	11,758	247	3,971	1,423	6,117
Total Low Power	3,092	14	517	268	2,293
Conventional Turbines	2,717	12	485	236	1,985
Unconventional Systems	87	2	17	8	60
Microhydro	289	1	16	24	248



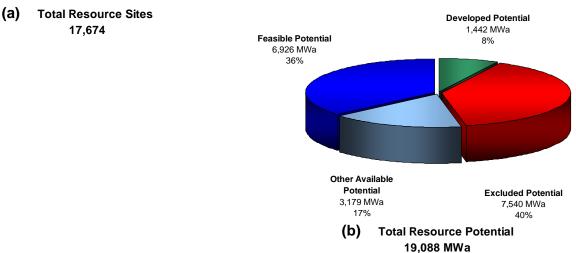
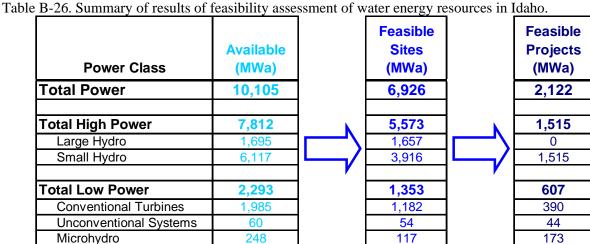


Figure B-56. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Idaho.



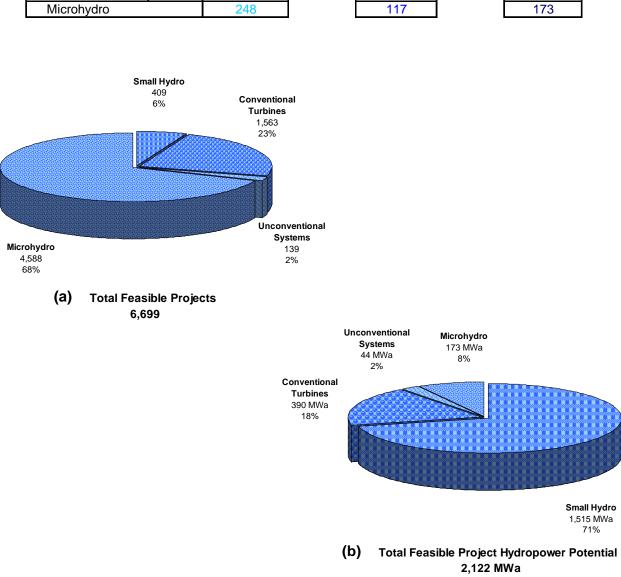


Figure B-57. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Idaho with the low power projects divided into technology classes.

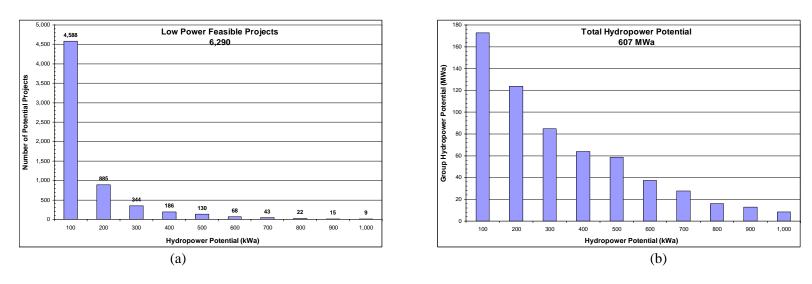


Figure B-58. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Idaho.

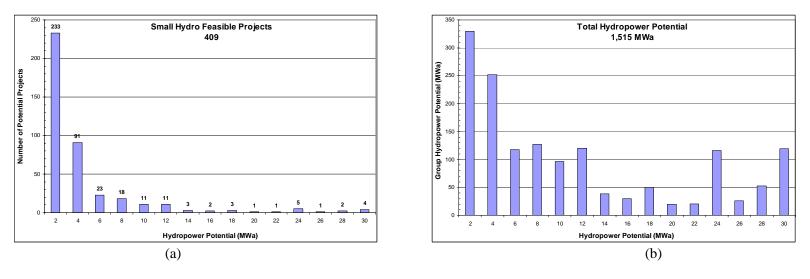


Figure B-59. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Idaho.

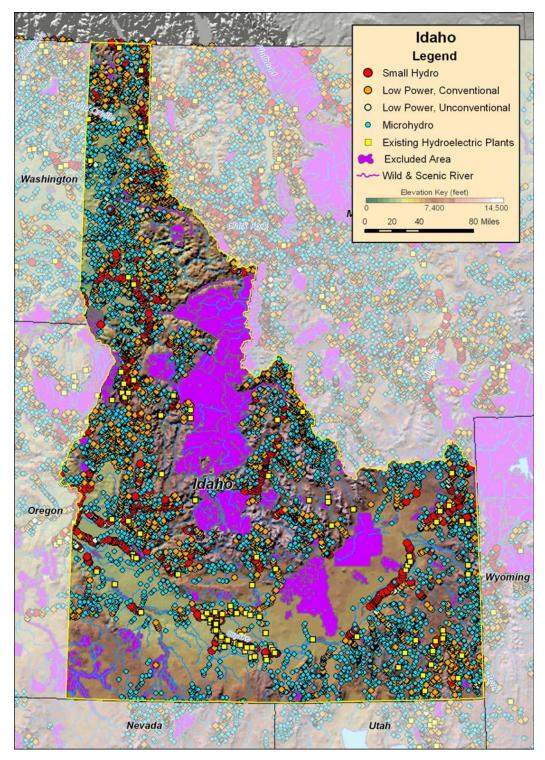


Figure B-60. Low power and small hydropower feasible projects, and existing hydroelectric plants in Idaho.

B.13 Illinois

Table B-27. Summary of results of water energy resource assessment of Illinois.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	2,440	7	101	88	2,244
Total High Power	2,028	6	90	42	1,891
Large Hydro	1,647	0	75	0	1,572
Small Hydro	381	6	15	42	318
Total Low Power	412	1	11	47	353
Conventional Turbines	150	1	6	19	124
Unconventional Systems	100	0	2	18	79
Microhydro	162	0	2	10	150

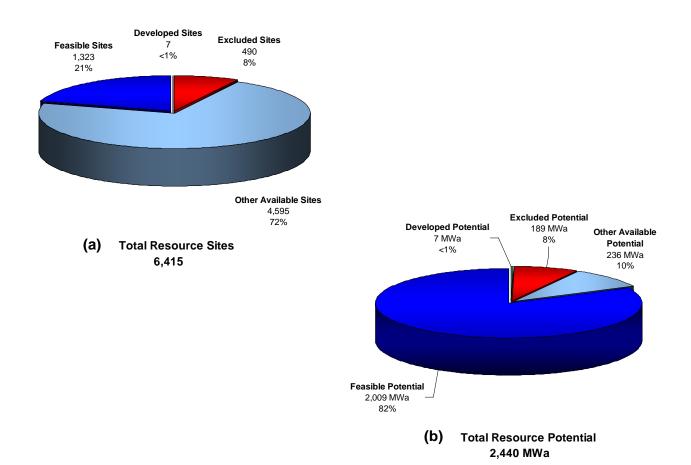
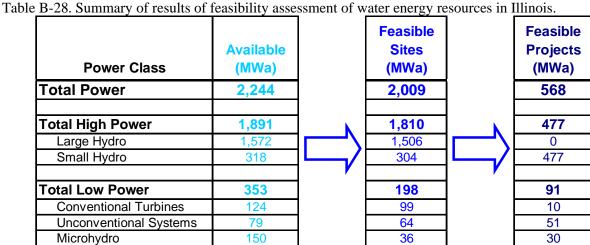


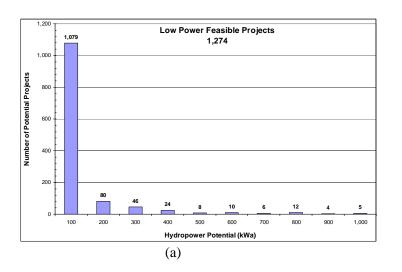
Figure B-61. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Illinois.



Conventional Small Hydro Turbines 49 35 Unconventional 4% 3% Systems 160 12% Microhydro 1,079 Unconventional Microhydro 82% Systems 30 MWa 51 MWa 5% (a) **Total Feasible Projects** Conventional 1,323 **Turbines** 10 MWa 2% Small Hydro 477 MWa 84%

(b) Total Feasible Project Hydropower Potential 568 MWa

Figure B-62. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Illinois with the low power projects divided into technology classes.



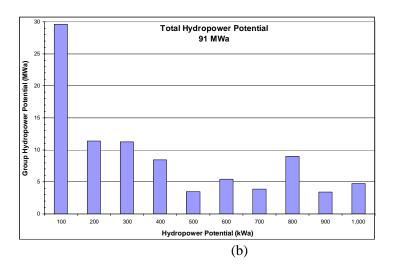
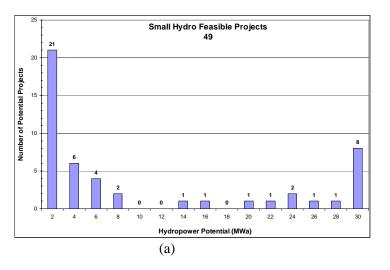


Figure B-63. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Illinois.



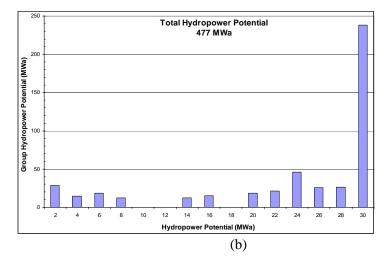


Figure B-64. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Illinois.

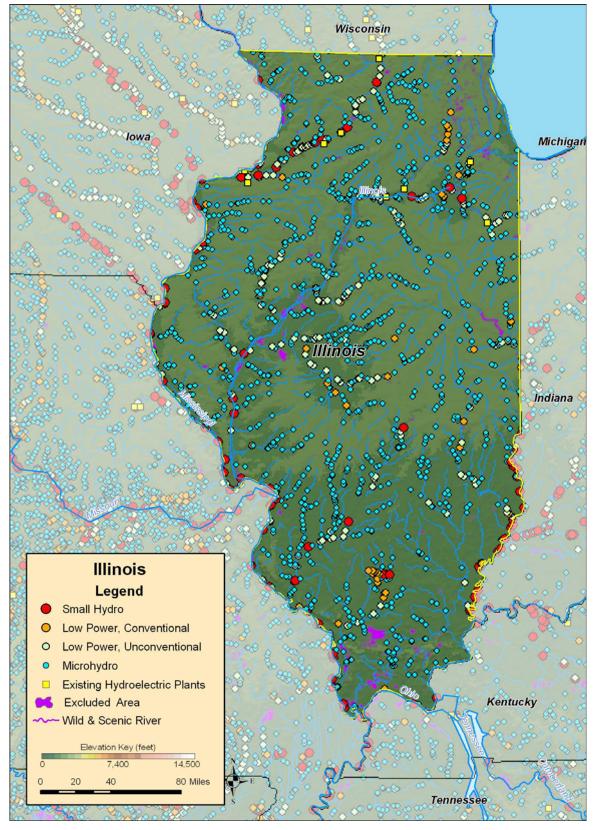


Figure B-65. Low power and small hydropower feasible projects, and existing hydroelectric plants in Illinois.

B.14 Indiana

Table B-29. Summary of results of water energy resource assessment of Indiana.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	1,383	13	2	40	1,328
Total High Power	991	12	0	17	962
Large Hydro	396	0	0	0	396
Small Hydro	596	12	0	17	566
Total Low Power	392	0	2	24	366
Conventional Turbines	204	0	0	16	188
Unconventional Systems	66	0	1	3	62
Microhydro	122	0	1	5	116

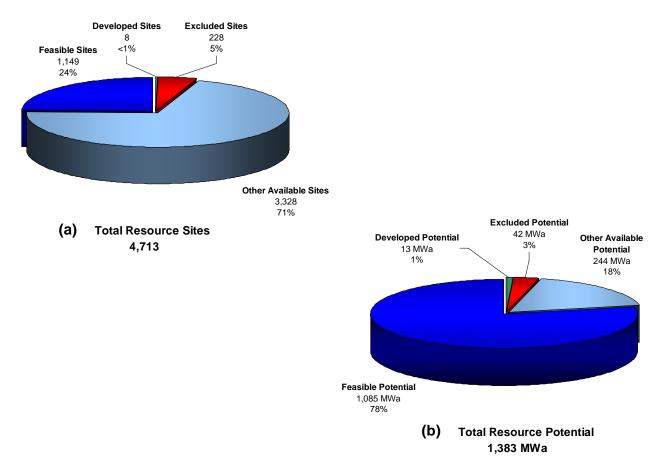
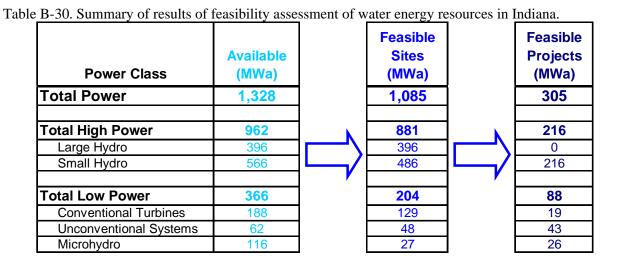


Figure B-66. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Indiana.



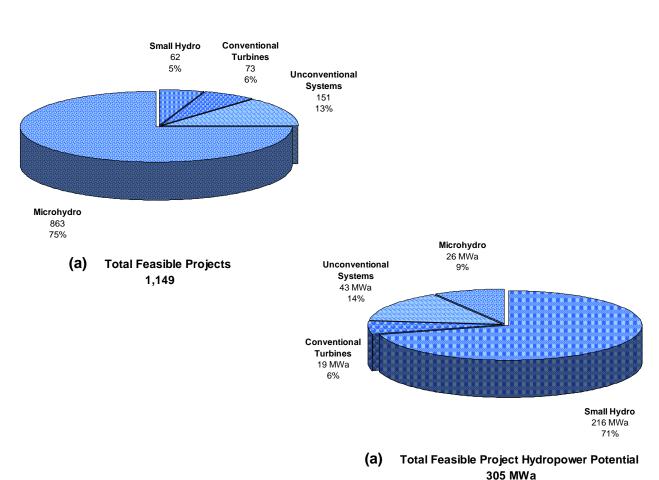
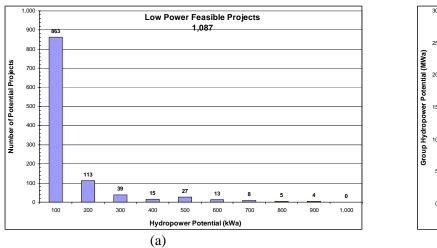


Figure B-67. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Indiana with the low power projects divided into technology classes.



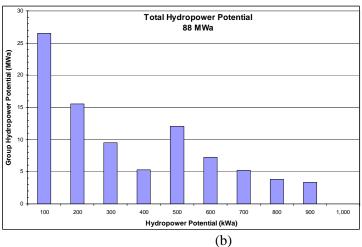
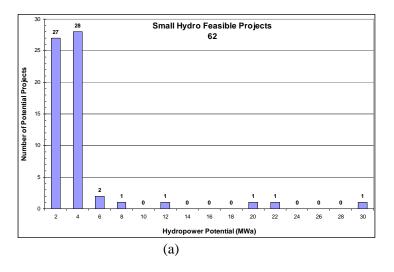


Figure B-68. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Indiana.



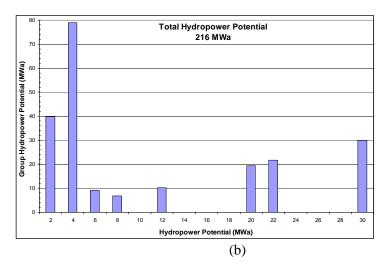


Figure B-69. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Indiana.

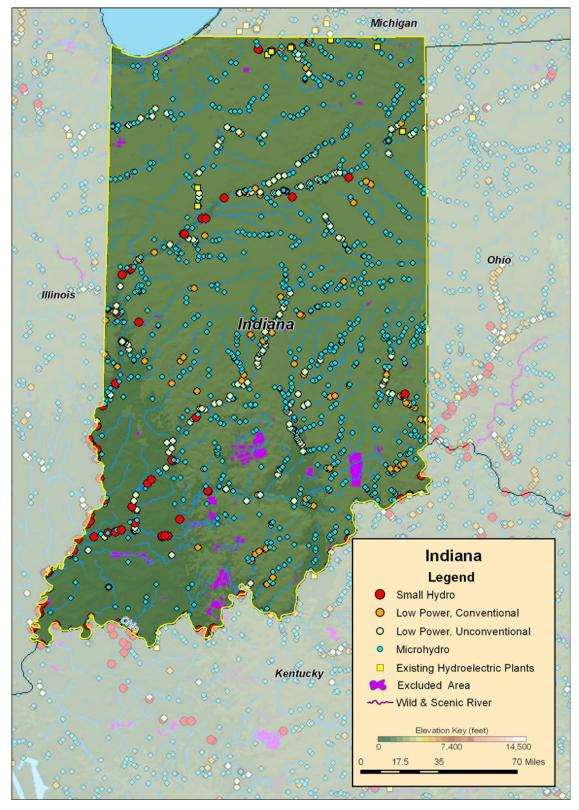


Figure B-70. Low power and small hydropower feasible projects, and existing hydroelectric plants in Indiana.

B.15 lowa

Table B-31. Summary of results of water energy resource assessment of Iowa.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	1,171	2	83	10	1,076
Total High Power	650	0	77	5	568
Large Hydro	42	0	0	0	42
Small Hydro	608	0	77	5	526
Total Low Power	520	2	6	5	507
Conventional Turbines	234	1	1	4	228
Unconventional Systems	114	1	4	1	108
Microhydro	173	0	1	1	171

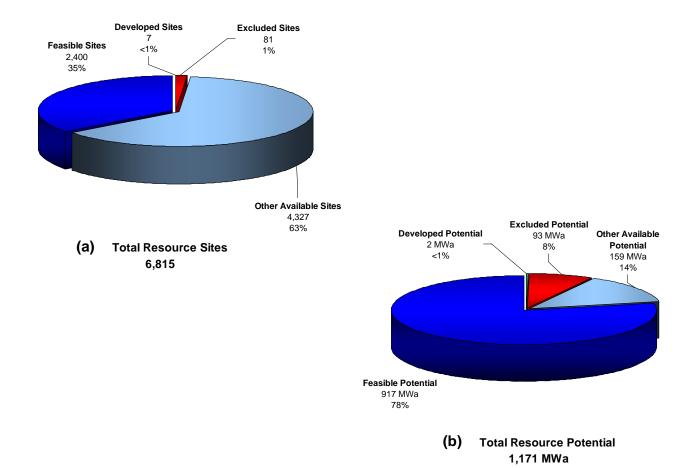
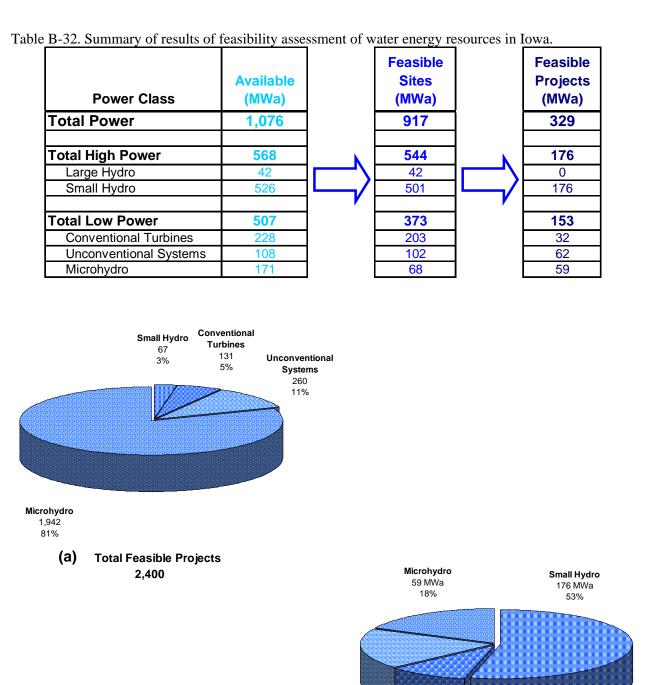


Figure B-71. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Iowa.



(b) Total Feasible Project Hydropower Potential 329 MWa

Conventional

Turbines

32 MWa 10%

Figure B-72. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Iowa with the low power projects divided into technology classes.

Unconventional Systems

62 MWa

19%

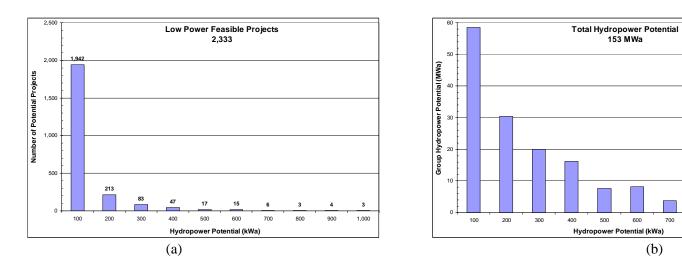


Figure B-73. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Iowa.

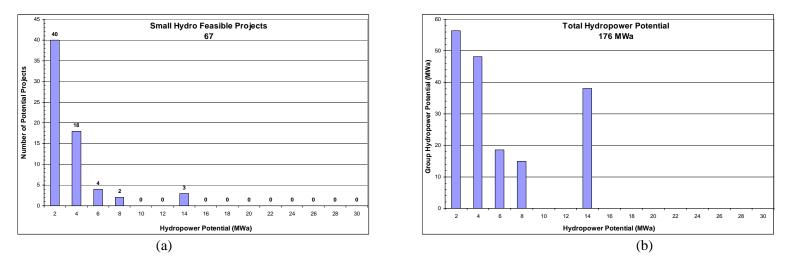


Figure B-74. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Iowa.

(b)

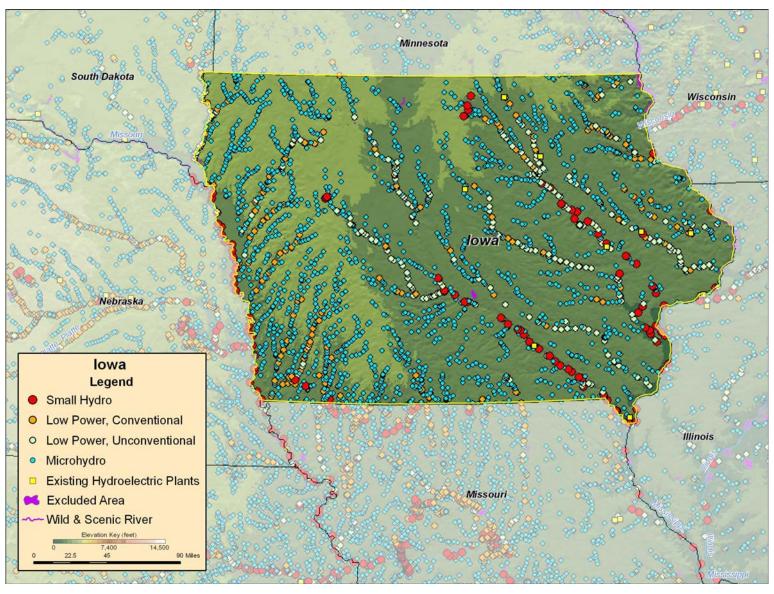


Figure B-75. Low power and small hydropower feasible projects, and existing hydroelectric plants in Iowa.

B.16 Kansas

Table B-33. Summary of results of water energy resource assessment of Kansas.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	932	1	3	3	925
Total High Power	405	0	0	0	405
Large Hydro	0	0	0	0	0
Small Hydro	405	0	0	0	405
Total Low Power	527	1	3	3	520
Conventional Turbines	230	0	2	2	227
Unconventional Systems	80	1	1	0	77
Microhydro	217	0	1	0	216

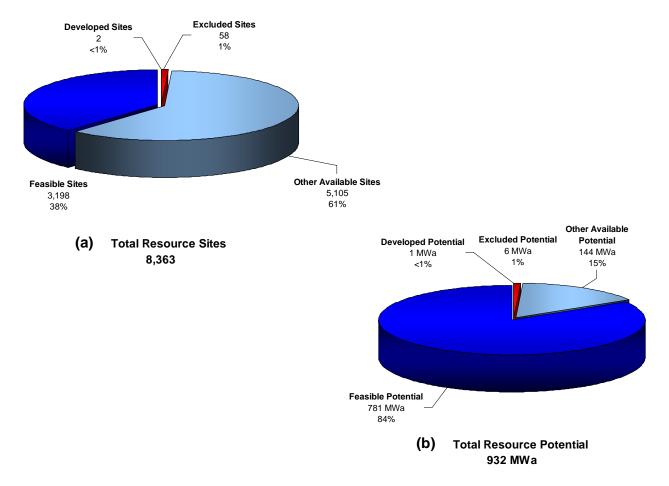
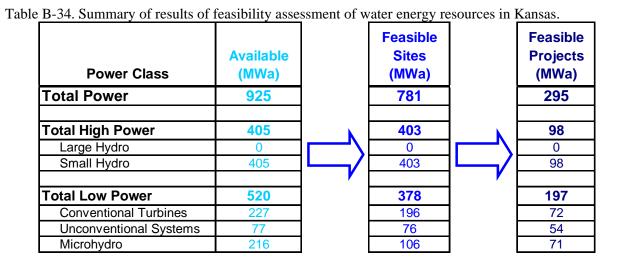


Figure B-76. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Kansas.



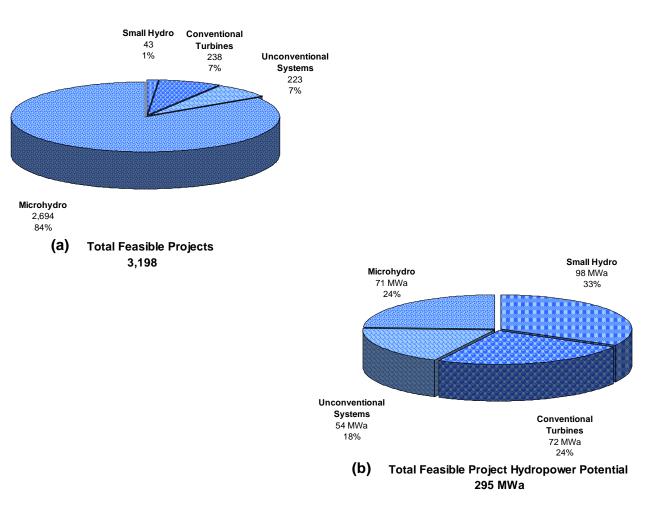
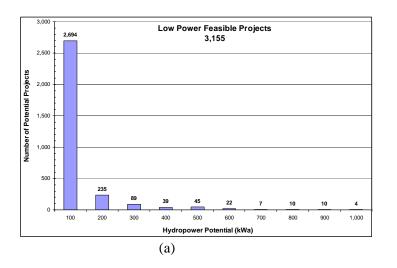


Figure B-77. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Kansas with the low power projects divided into technology classes.



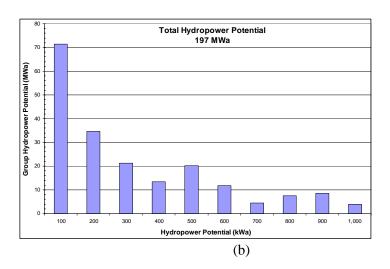
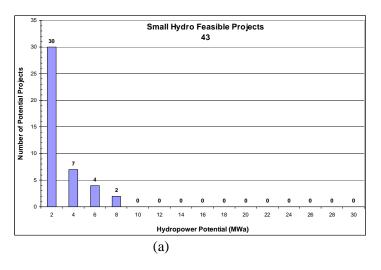
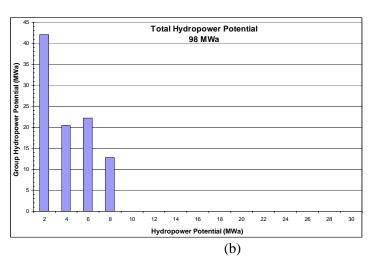


Figure B-78. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Kansas.





Figures A-79. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Kansas.

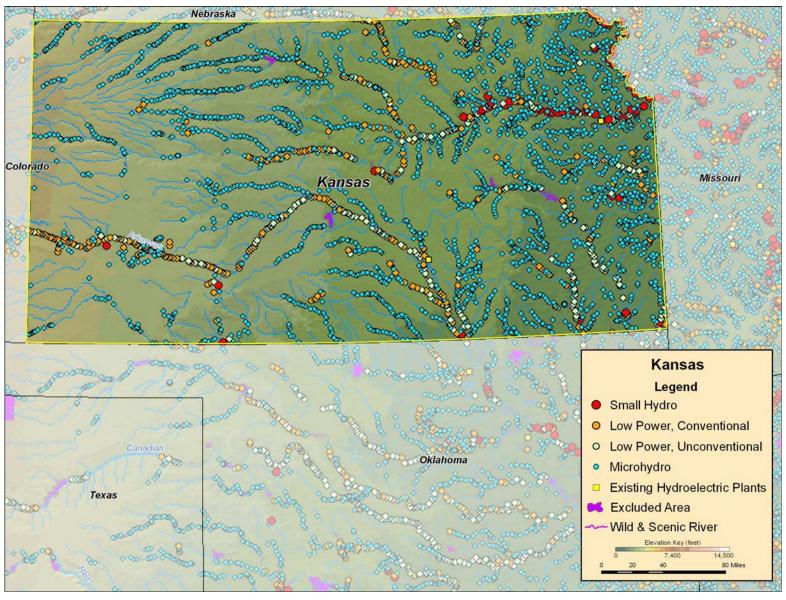


Figure B-80. Low power and small hydropower feasible projects, and existing hydroelectric plants in Kansas.

B.17 Kentucky

Table B-35. Summary of results of water energy resource assessment of Kentucky.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	3,754	305	44	127	3,278
Total High Power	3,178	305	33	77	2,763
Large Hydro	2,518	285	0	0	2,233
Small Hydro	661	21	33	77	530
Total Low Power	576	0	11	49	515
Conventional Turbines	341	0	7	31	303
Unconventional Systems	49	0	2	7	40
Microhydro	186	0	2	12	172

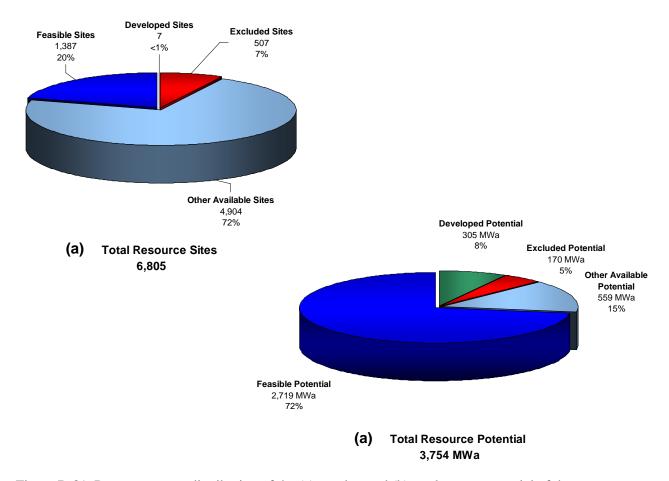
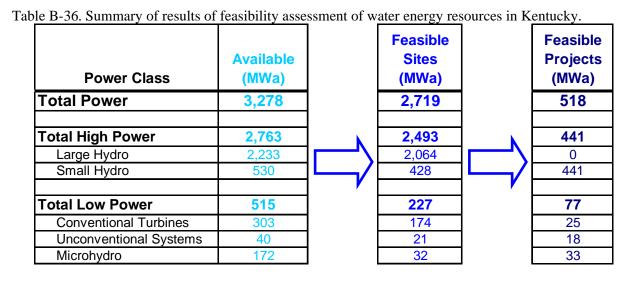


Figure B-81. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Kentucky.



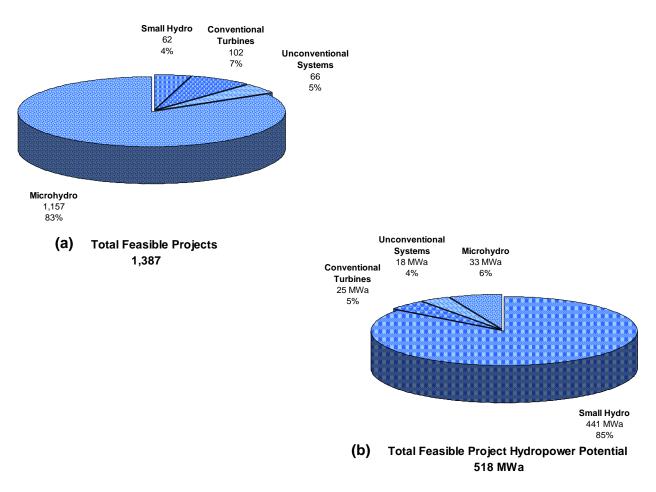


Figure B-82. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Kentucky with the low power projects divided into technology classes.

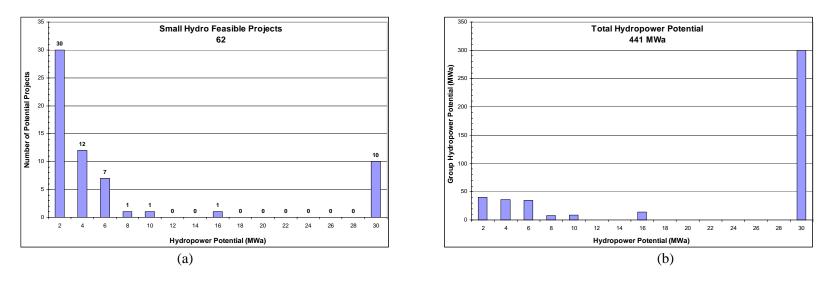


Figure B-83. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Kentucky.

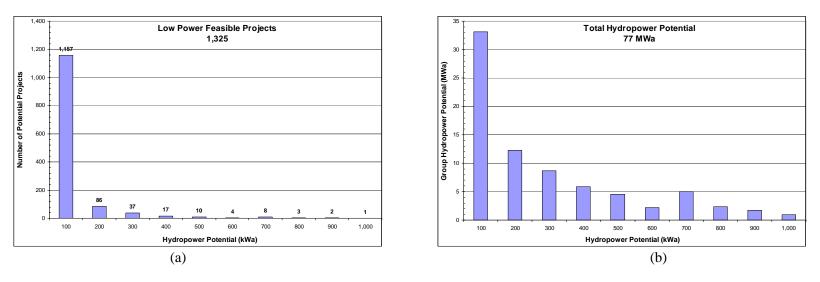


Figure B-84. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Kentucky.

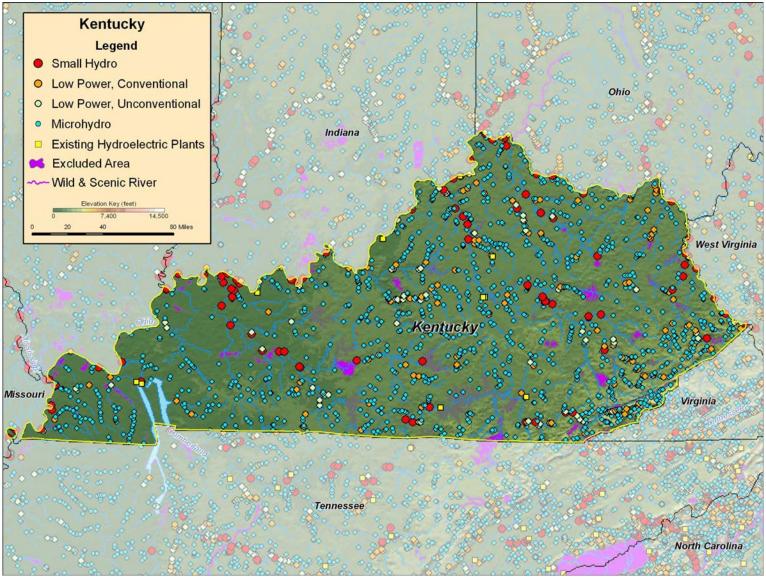
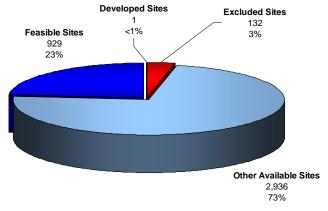


Figure B-85. Low power and small hydropower feasible projects, and existing hydroelectric plants in Kentucky.

B.18 Louisiana

Table B-37. Summary of results of water energy resource assessment of Louisiana.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	3,088	25	331	4	2,728
Total High Power	2,801	25	323	0	2,453
Large Hydro	2,416	0	287	0	2,129
Small Hydro	385	25	37	0	323
Total Low Power	287	0	7	4	276
Conventional Turbines	98	0	0	2	96
Unconventional Systems	84	0	5	1	78
Microhydro	105	0	2	2	101



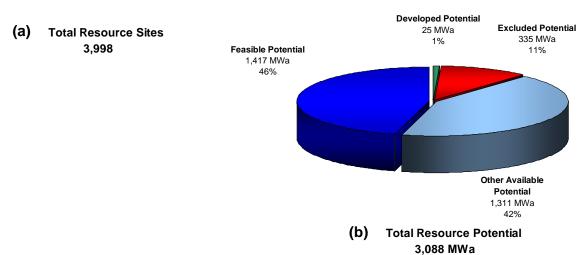
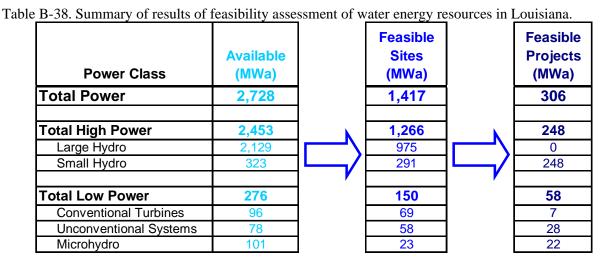
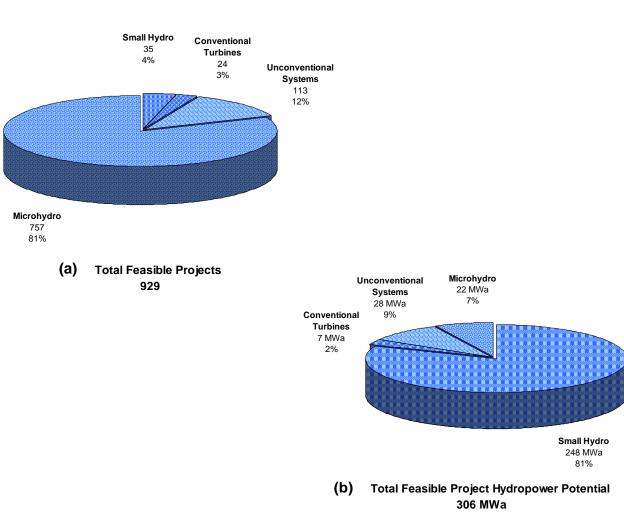


Figure B-86. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Louisiana.





Figures A-87. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Louisiana with the low power projects divided into technology classes.

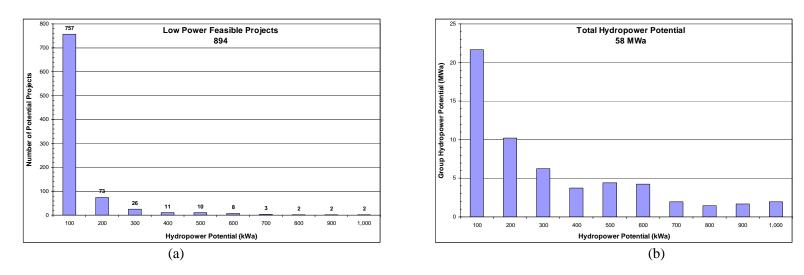


Figure B-88. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Louisiana.

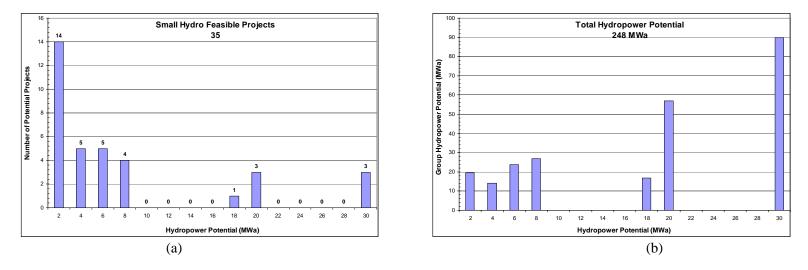


Figure B-89. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Louisiana.

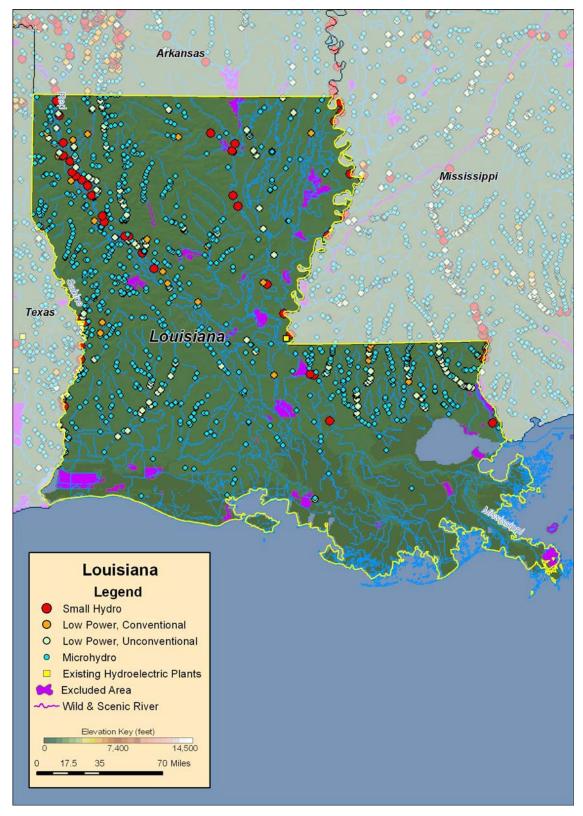


Figure B-90. Low power and small hydropower feasible projects, and existing hydroelectric plants in Louisiana.

B.19 Maine

Table B-39. Summary of results of water energy resource assessment of Maine.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	2,780	311	63	277	2,129
Total High Power	1,989	297	42	211	1,439
Large Hydro	315	89	0	47	179
Small Hydro	1,675	208	42	164	1,260
Total Low Power	791	14	21	66	689
Conventional Turbines	607	11	15	53	529
Unconventional Systems	44	2	4	4	35
Microhydro	139	2	2	9	126

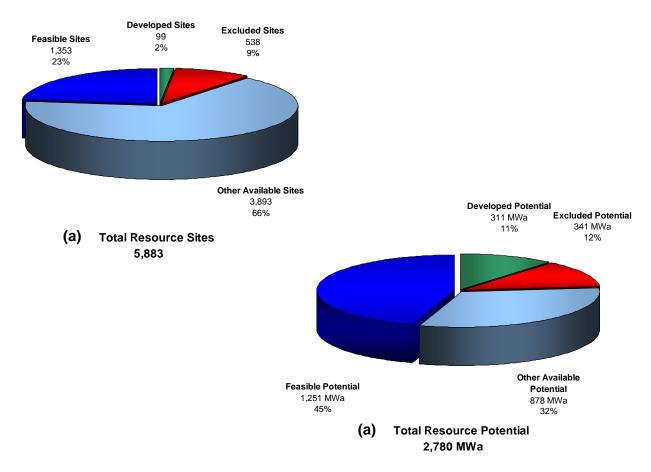
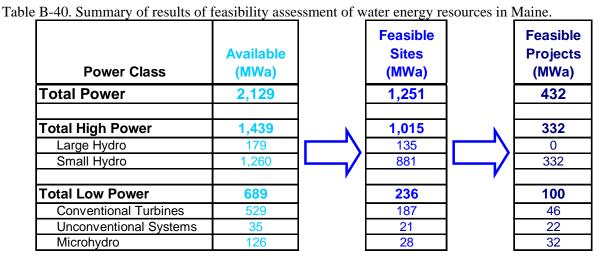


Figure B-91. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Maine.



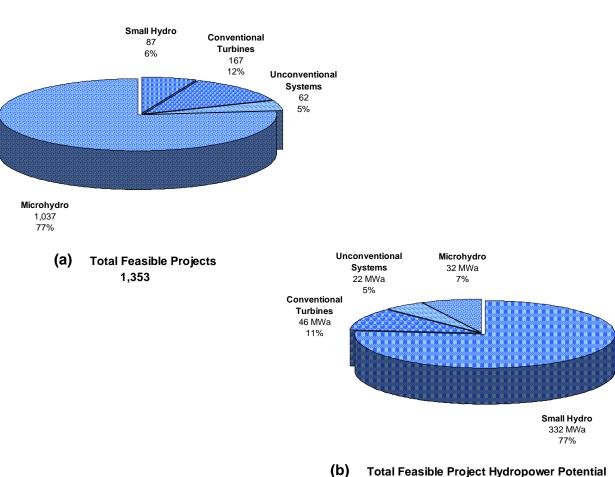
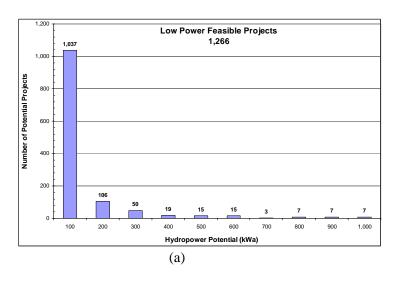


Figure B-92. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Maine with the low power projects divided into technology classes.

432 MWa



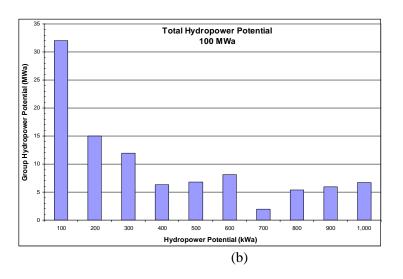
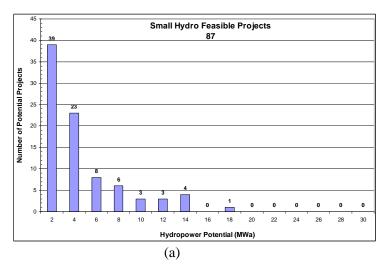


Figure B-93. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Maine.



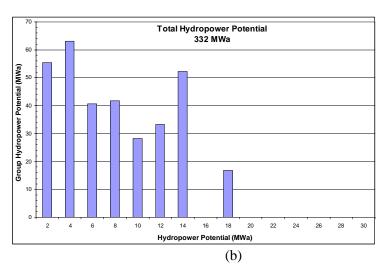


Figure B-94. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Maine.

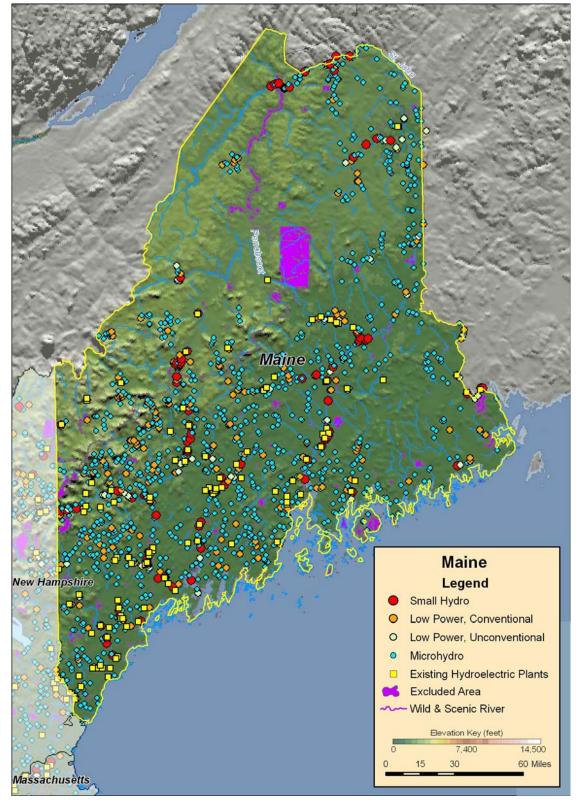


Figure B-95. Low power and small hydropower feasible projects, and existing hydroelectric plants in Maine.

B.20 Maryland

Table B-41. Summary of results of water energy resource assessment of Maryland.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	761	5	193	40	523
Total High Power	615	3	182	15	415
Large Hydro	336	0	69	0	268
Small Hydro	279	3	113	15	147
Total Low Power	146	1	12	25	108
Conventional Turbines	108	1	9	20	77
Unconventional Systems	4	0	0	0	3
Microhydro	34	0	2	4	28

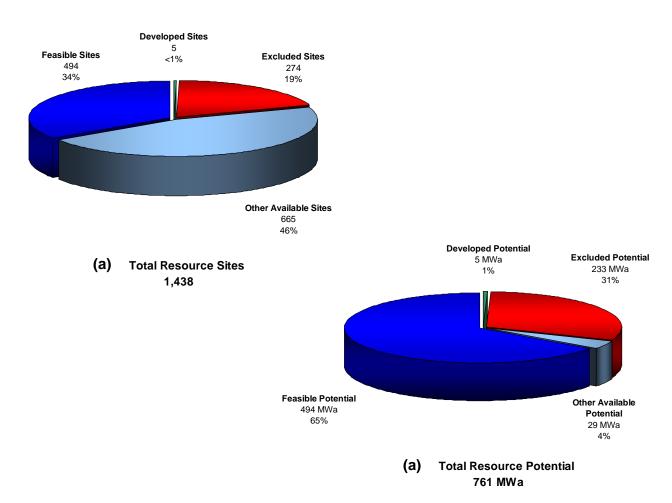
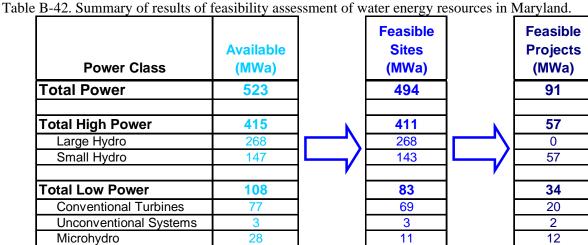


Figure B-96. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Maryland.



Small Hydro Conventional 10 Turbines 2% 64 Unconventional 13% **Systems** 2% Microhydro 411 83% (a) **Total Feasible Projects** Microhydro 12 MWa 494 Unconventional 13% Systems 2 MWa 2% Conventional Turbines 20 MWa 22% Small Hydro 57 MWa 63% (a) **Total Feasible Project Hydropower Potential**

91 MWa

Figure B-97. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Maryland with the low power projects divided into technology classes.

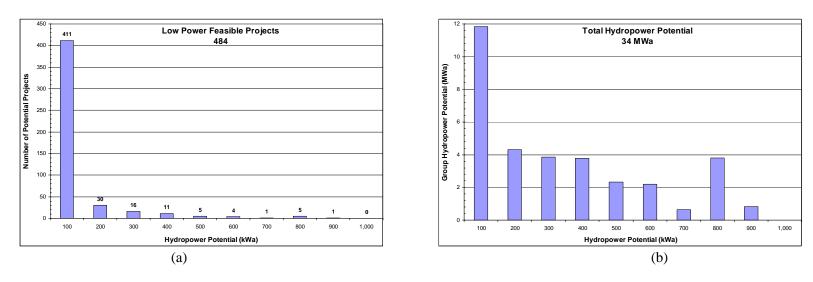


Figure B-98. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Maryland.

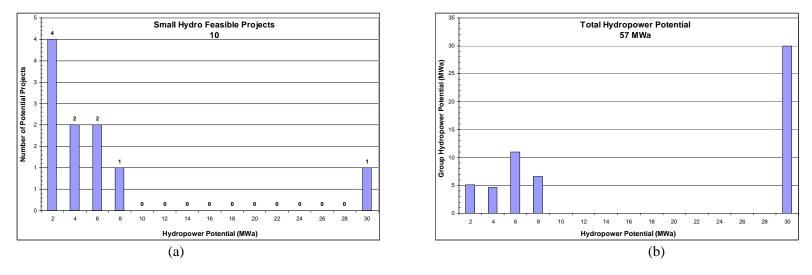


Figure B-99. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Maryland.

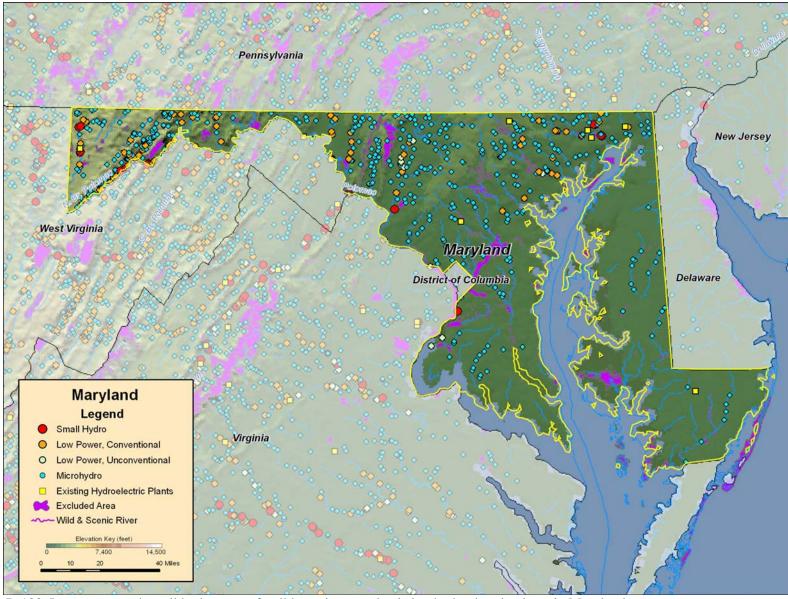
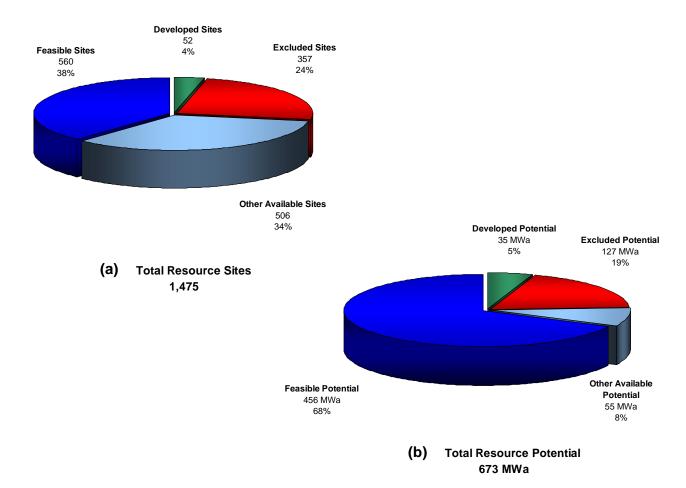


Figure B-100. Low power and small hydropower feasible projects, and existing hydroelectric plants in Maryland.

B.21 Massachusetts

Table B-43. Summary of results of water energy resource assessment of Massachusetts.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	673	35	29	98	511
Total High Power	478	29	11	57	381
Large Hydro	136	0	0	0	136
Small Hydro	343	29	11	57	246
Total Low Power	195	6	18	41	130
Conventional Turbines	155	5	17	31	101
Unconventional Systems	6	0	0	2	4
Microhydro	33	1	0	8	25



Figures A-101. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Massachusetts.

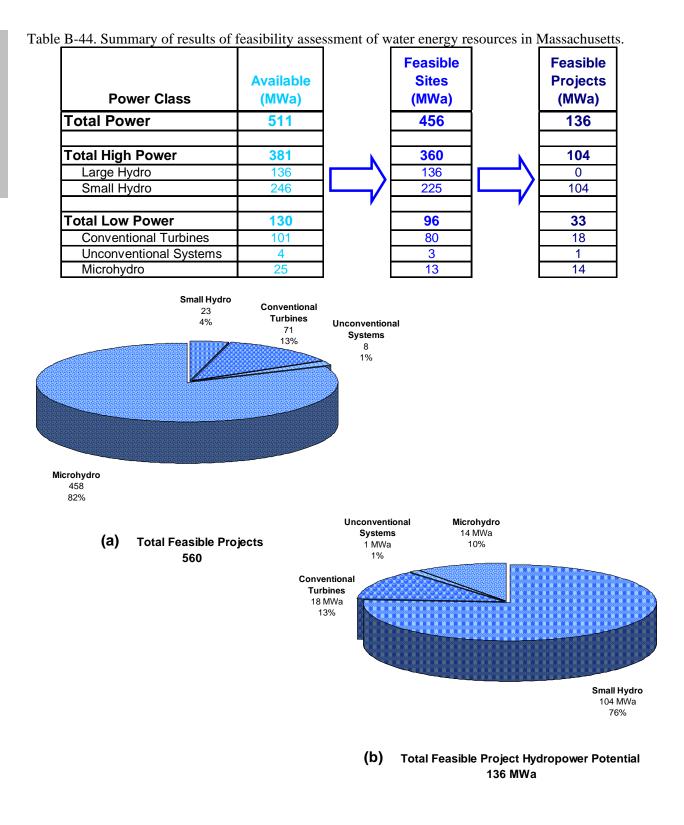
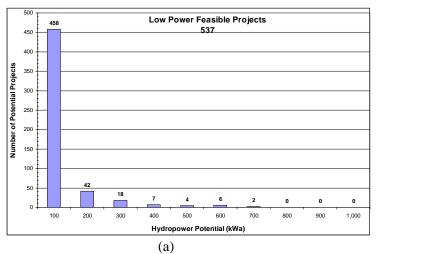


Figure B-102. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Massachusetts with the low power projects divided into technology classes.



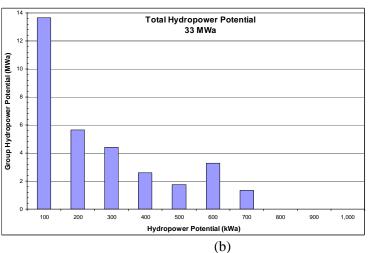
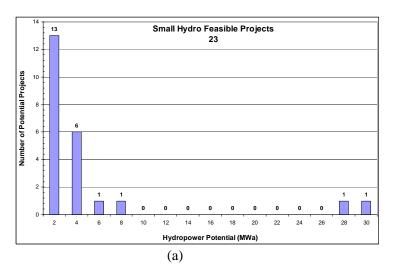


Figure B-103. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Massachusetts.



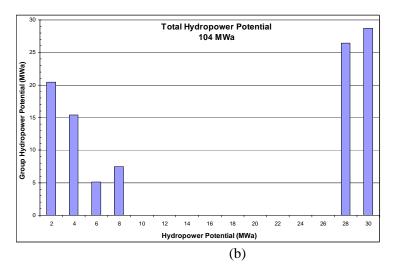


Figure B-104. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Massachusetts.

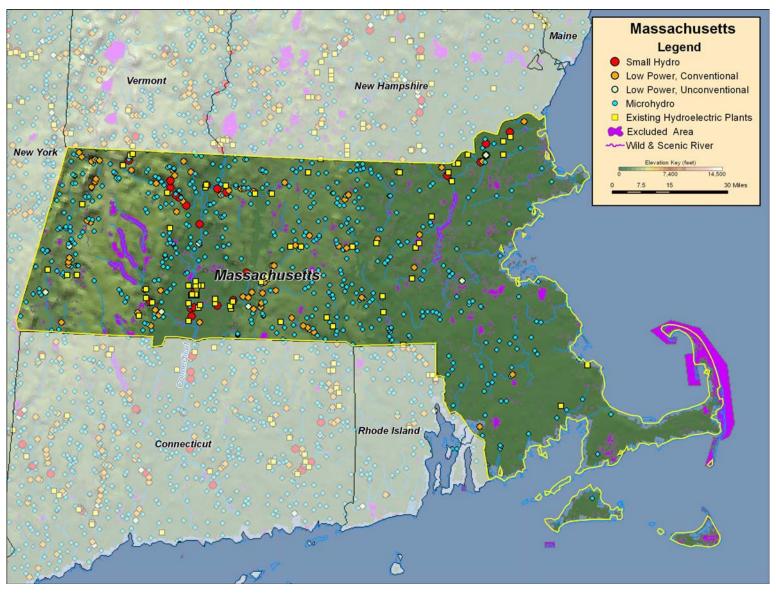


Figure B-105. Low power and small hydropower feasible projects, and existing hydroelectric plants in Massachusetts.

B.22 Michigan

Table B-45. Summary of results of water energy resource assessment of Michigan.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	1,101	89	200	27	784
Total High Power	434	75	124	12	224
Large Hydro	0	0	0	0	0
Small Hydro	434	75	124	12	224
Total Low Power	666	15	77	15	560
Conventional Turbines	409	12	57	8	332
Unconventional Systems	59	2	9	3	46
Microhydro	198	1	11	4	182

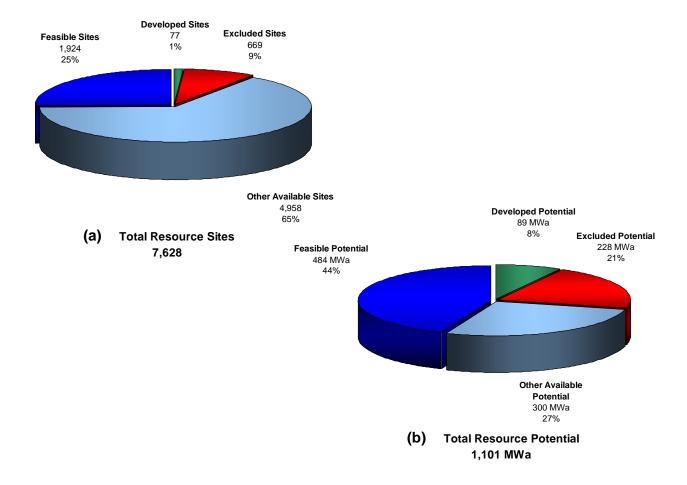
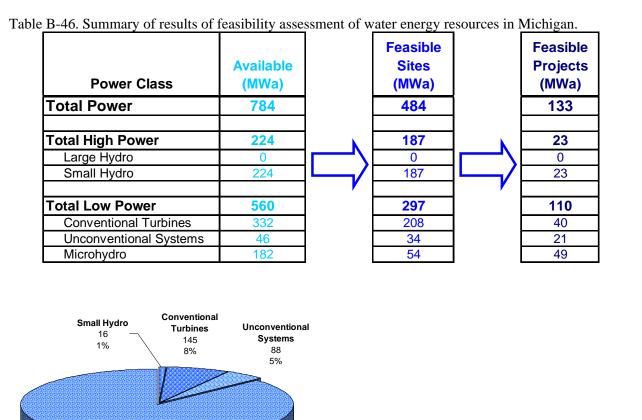
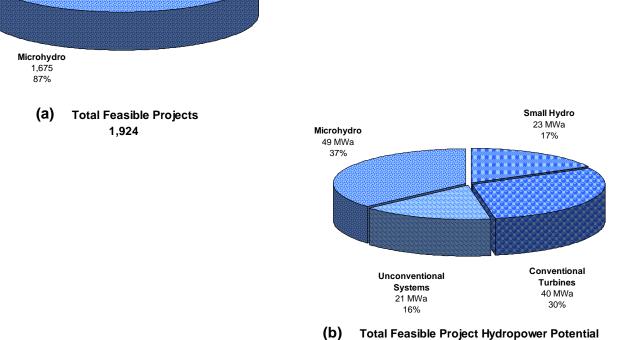


Figure B-106. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Michigan.





133 MWa

Figure B-107. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Michigan with the low power projects divided into technology classes.

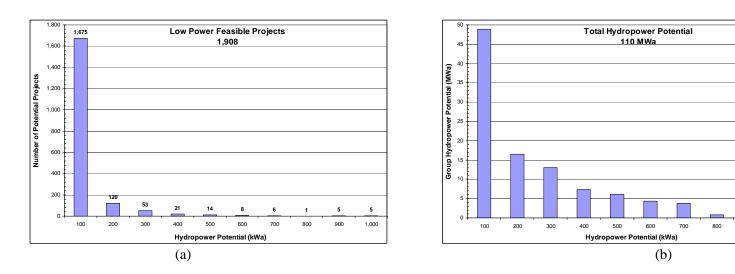


Figure B-108. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Michigan.

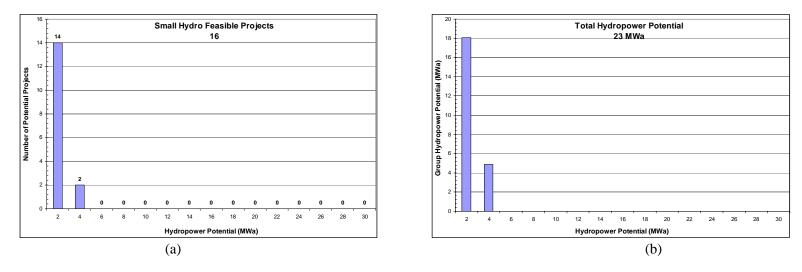


Figure B-109. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Michigan.

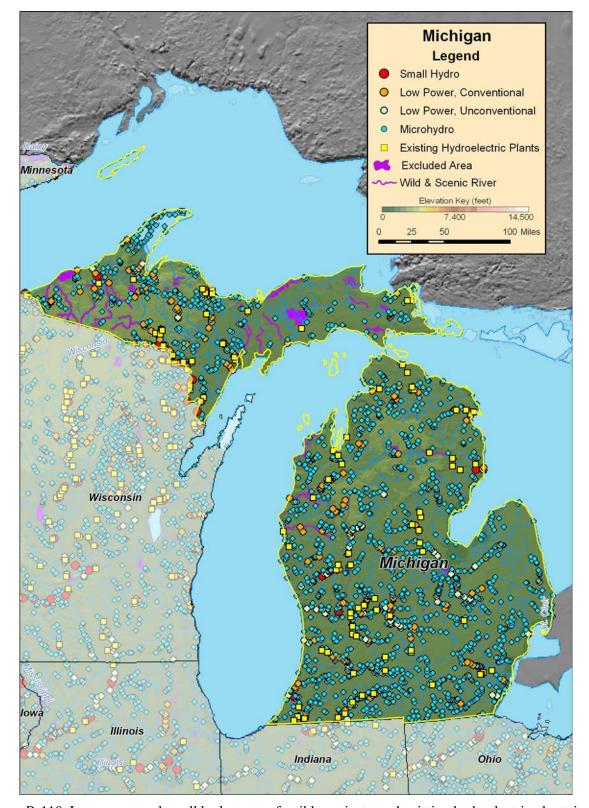


Figure B-110. Low power and small hydropower feasible projects, and existing hydroelectric plants in Michigan.

B.23 Minnesota

Table B-47. Summary of results of water energy resource assessment of Minnesota.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	1,433	153	311	173	797
Total High Power	811	147	250	112	302
Large Hydro	123	74	48	0	0
Small Hydro	688	73	201	112	302
Total Low Power	622	6	61	61	495
Conventional Turbines	349	3	39	34	274
Unconventional Systems	85	2	11	11	60
Microhydro	188	0	11	16	161

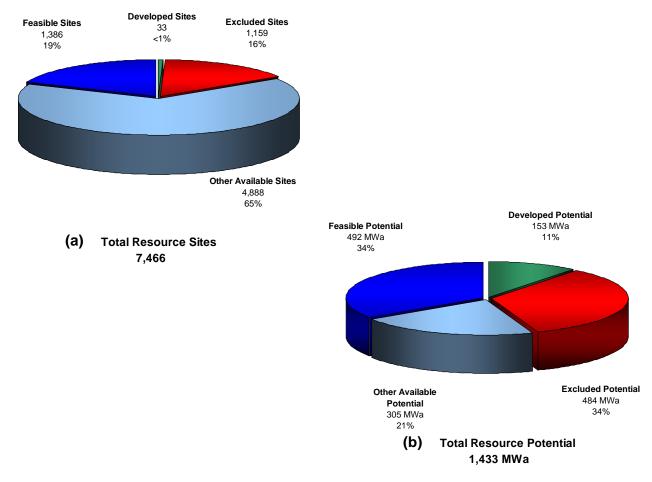
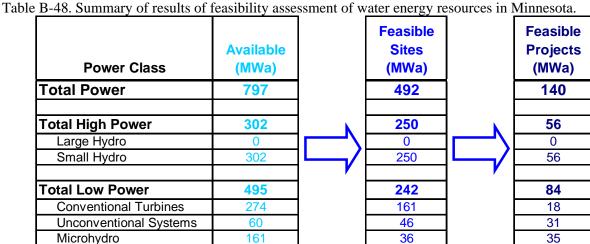
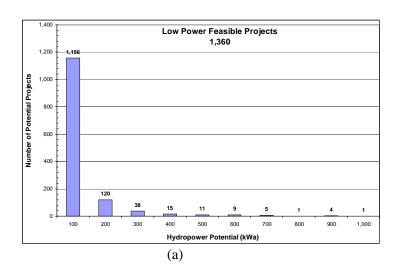


Figure B-111. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Minnesota.



Small Hydro Conventional 26 Turbines 2% 73 Unconventional 5% **Systems** 131 9% Microhydro 1,156 83% (a) **Total Feasible Projects** Small Hydro 1,386 Microhydro 56 MWa 35 MWa 40% 25% Unconventional Systems Conventional 31 MWa **Turbines** 22% 18 MWa 13% (b) **Total Feasible Project Hydropower Potential** 140 MWa

Figure B-112. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Minnesota with the low power projects divided into technology classes.



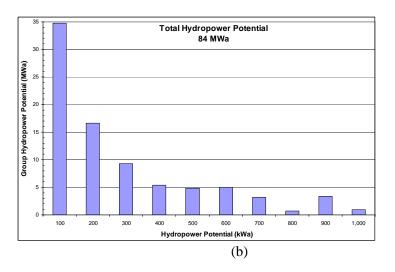
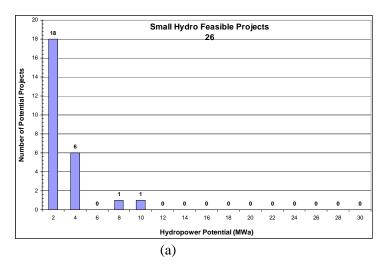


Figure B-113. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Minnesota.



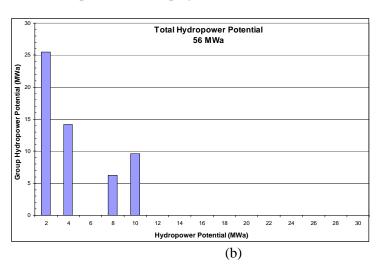


Figure B-114. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Minnesota.

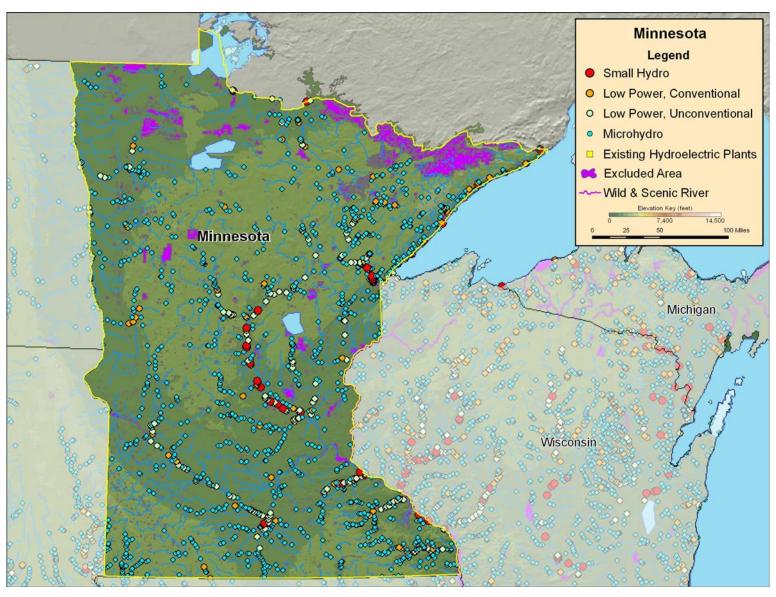


Figure B-115. Low power and small hydropower feasible projects, and existing hydroelectric plants in Minnesota.

B.24 Mississippi

Table B-49. Summary of results of water energy resource assessment of Mississippi.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	2,823	0	265	16	2,542
Total High Power	2,235	0	233	12	1,990
Large Hydro	1,684	0	182	0	1,502
Small Hydro	552	0	51	12	489
Total Low Power	588	0	31	4	552
Conventional Turbines	248	0	15	1	232
Unconventional Systems	137	0	7	2	128
Microhydro	202	0	9	1	192

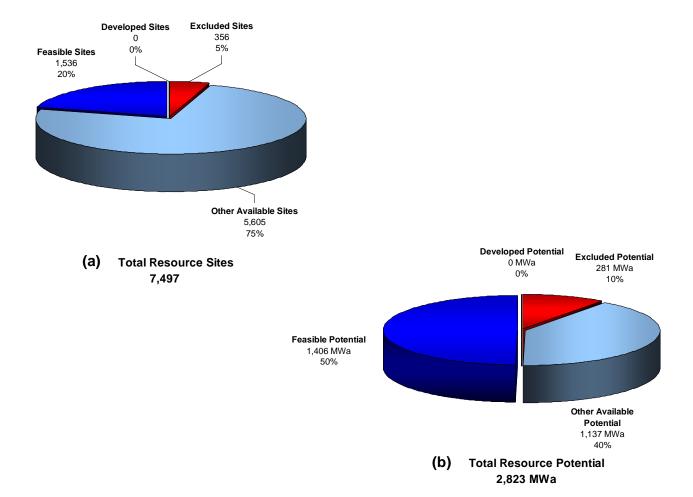
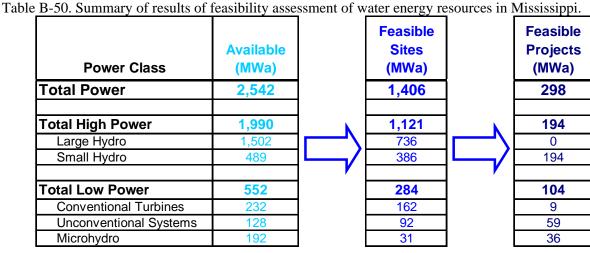
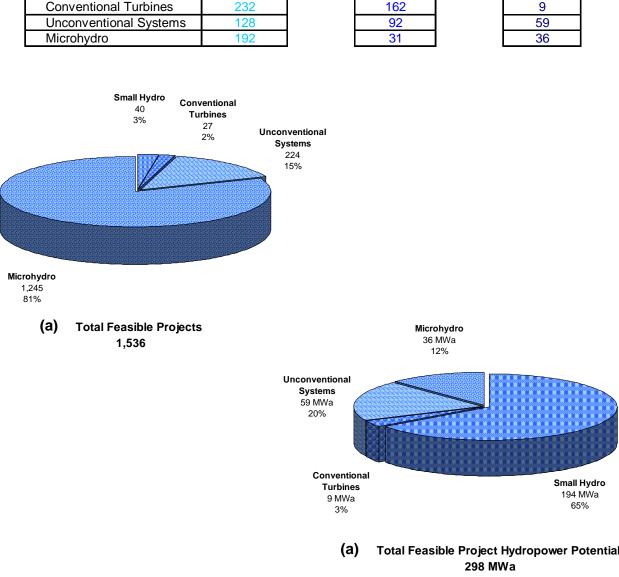


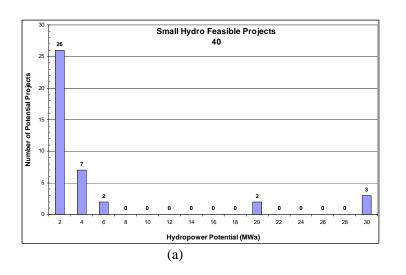
Figure B-116. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Mississippi.





Total Feasible Project Hydropower Potential

Figure B-117. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Mississippi with the low power projects divided into technology classes Mississippi.



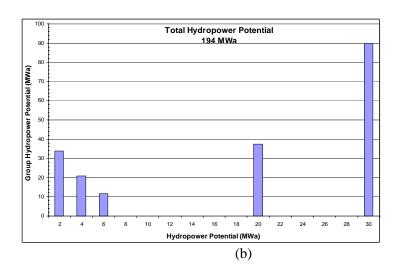
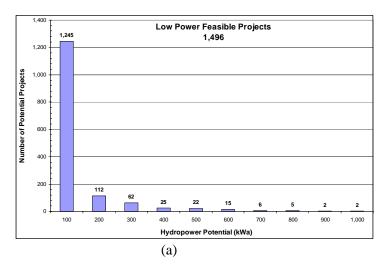


Figure B-118. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Mississippi.



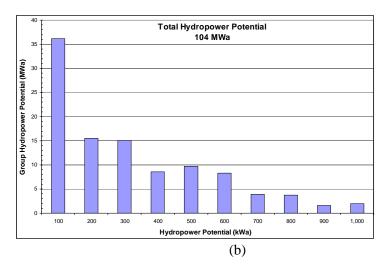


Figure B-119. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Mississippi.

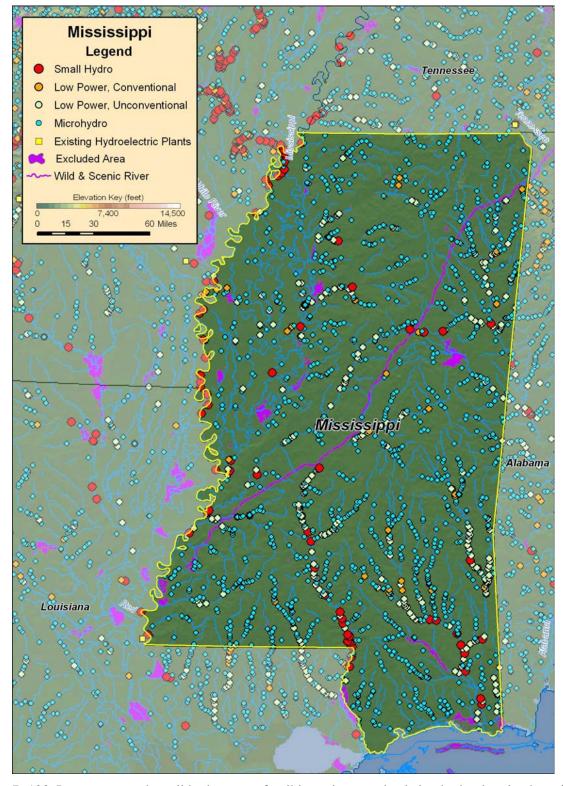


Figure B-120. Low power and small hydropower feasible projects, and existing hydroelectric plants in Mississippi.

B.25 Missouri

Table B-51. Summary of results of water energy resource assessment of Missouri.

Power Class	Total (MWa)	Developed (MWa)	Federally Excluded (MWa)	Other Excluded (MWa)	Available (MWa)
Total Power	3,499	109	111	117	3,162
Total High Power	2,563	107	64	69	2,323
Large Hydro	1,571	63	0	0	1,508
Small Hydro	992	45	64	69	814
Total Low Power	936	2	47	48	839
Conventional Turbines	499	2	31	36	431
Unconventional Systems	110	0	10	5	95
Microhydro	328	0	6	7	314

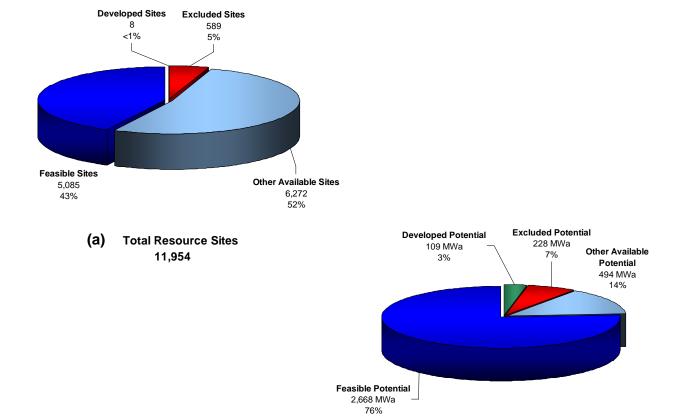
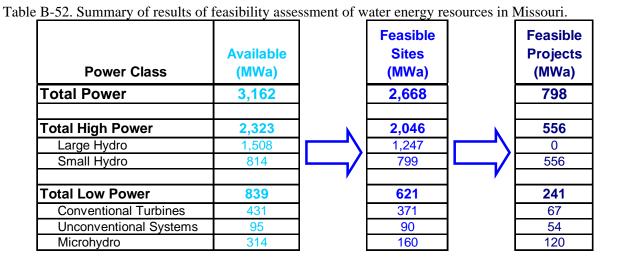


Figure B-121. Power category distribution of the (a) number and (b) total power potential of the water energy resource sites in Missouri.

(b)

Total Resource Potential 3,499 MWa

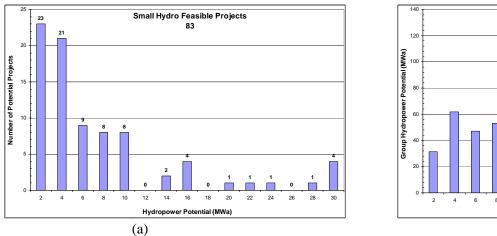


Conventional Small Hydro 83 **Turbines** 2% 293 Unconventional Systems 6% 206 4% Microhydro 4 503 89% (a) **Total Feasible Projects** Microhydro 5,085 120 MWa 15% Unconventional **Systems** 54 MWa Conventional Turbines 67 MWa 8% Small Hydro 556 MWa 70%

Figure B-122. Distribution of the (a) number and (b) total hydropower potential of the low power and small hydropower feasible projects in Missouri with the low power projects divided into technology classes.

(b)

Total Feasible Project Hydropower Potential 798 MWa



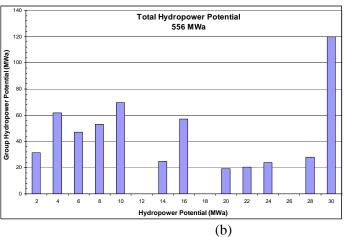
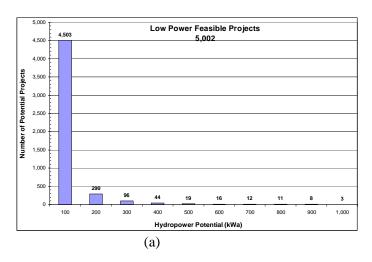


Figure B-123. Distributions of the (a) number and (b) group hydropower potential of low power feasible projects in Missouri.



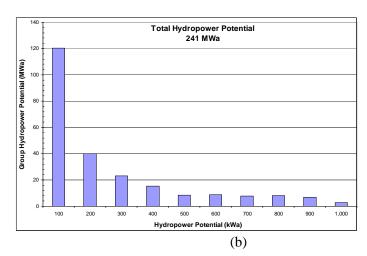


Figure B-124. Distributions of the (a) number and (b) group hydropower potential of small hydropower feasible projects in Missouri.

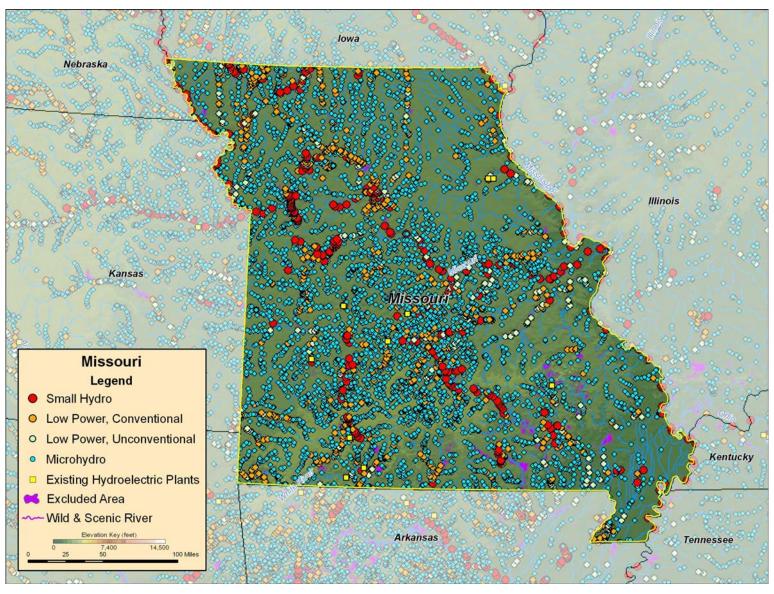


Figure B-125. Low power and small hydropower feasible projects, and existing hydroelectric plants in Missouri.