EBI ENVIRONMENTAL BUSINESS INTERNATIONAL INC.

Climate Change Consulting

Defining Climate Change Consulting for the 2020s

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Climate Change Industry Segments

1. Clean, Renewable & Low-Carbon Power: Generation & Structural Equipment, Systems, Supplies; Renewable Power Sales or 'Value'

2. Carbon Capture & Storage (CCS): Systems, Equipment and Operations

3. Energy Efficiency & Demand Response: Appliances, Devices, Equipment & Services including ESCOs, ESPs, DR & SmartGrid

4. Energy Storage: Equipment & Systems: Utility-Scale Systems; Commercial, Residential & Vehicle Propulsion Batteries; Fuel Cells

5. Green Buildings: Analysis, Planning & Permitting, Certification, Design & Development; Construction Management, Specialty Building Materials & Supply

6. Transportation: Vehicles, Fuels & Systems, Transit, Planning & Engineering

7. Carbon Markets: Credit & Offset Trading; and Project Development, Verification and Registration

8. Adaptation & Resilience: Risk Assessment, Planning, Engineering & Construction Management

9. Consulting, Research & Professional Services: Consulting & Engineering and Professional Services for Mitigation & Compliance; Climate Research

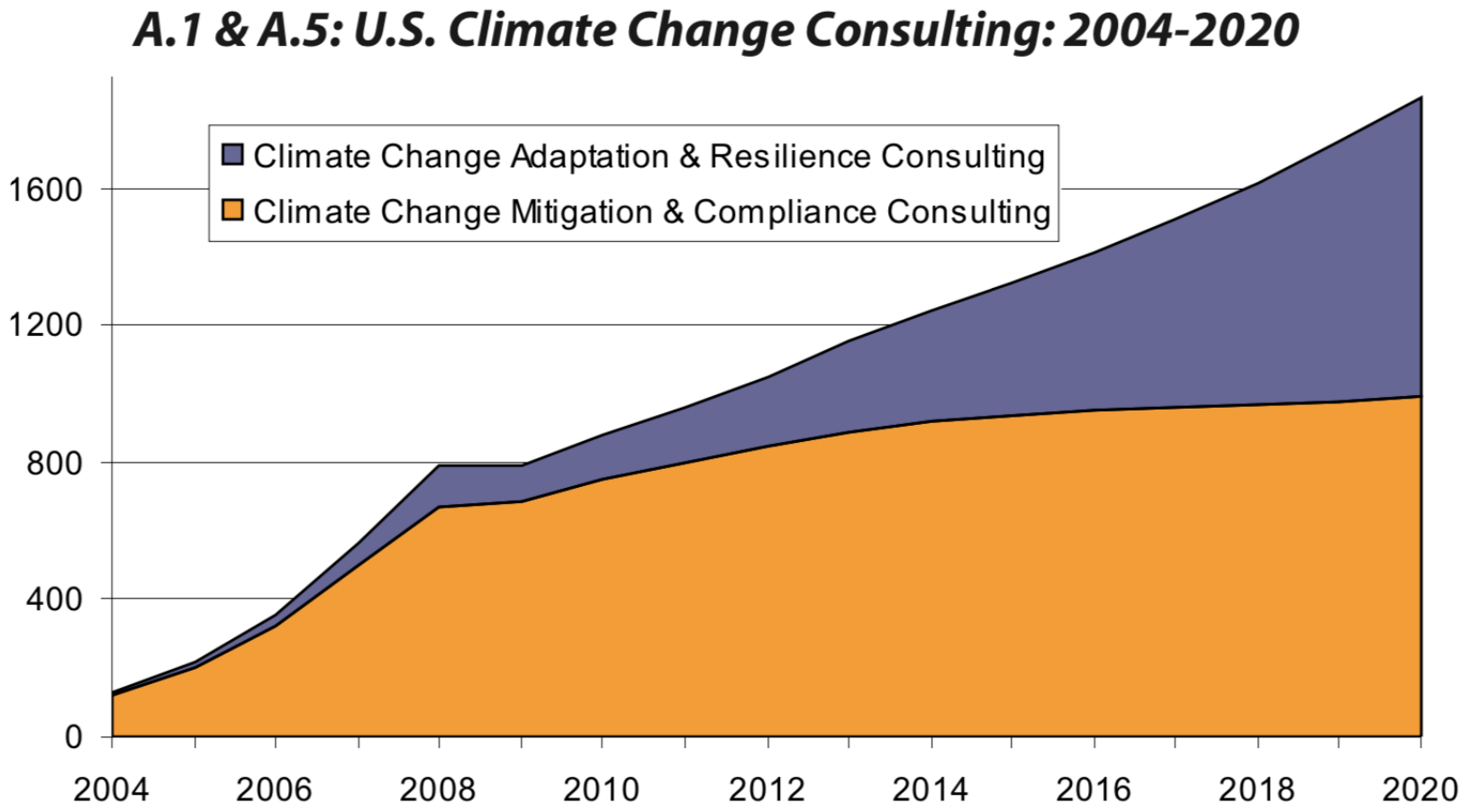
SOURCE: Climate Change Business Journal; Environmental Business International, Inc., San Diego, Calif.

Climate Change Industry Segments

	2016	2017	2018	2016 Growth	2017 Growth	2018 Growth	2019-2020 Forecast
Clean-RE-Low Carbon Power	56	56	63	18%	0%	12%	6-10%
Carbon Capture & Storage	0.2	0.2	0.1	-14%	-16%	-19%	2-4%
Energy Efficiency & Demand Response	61	63	65	3%	3%	3%	2-4%
Energy Storage	7	9	10	14%	14%	14%	8-12%
Green Buildings	76	85	95	14%	12%	12%	4-6%
Transportation	128	136	144	6%	6%	6%	4-8%
Carbon Markets	4.2	4.8	5.5	24%	14%	14%	8-10%
Adaptation & Resilience: C&E and Contracting	1.3	1.5	1.8	17%	16%	15%	12-16%
Consulting: Mitigation & Compliance; Research	2.9	2.3	1.8	-2%	-19%	-21%	2-6%
Total U.S. Climate Change Industry	337	358	387	9.4%	6.1%	8.1%	

SOURCE: Climate Change Business Journal; Environmental Business International, Inc., San Diego, Calif.

A.1 & A.5: U.S. Climate Change Consulting: 2004-2020



Source: EBI Inc., CCBJ climate change consulting & engineering industry model; units in $million

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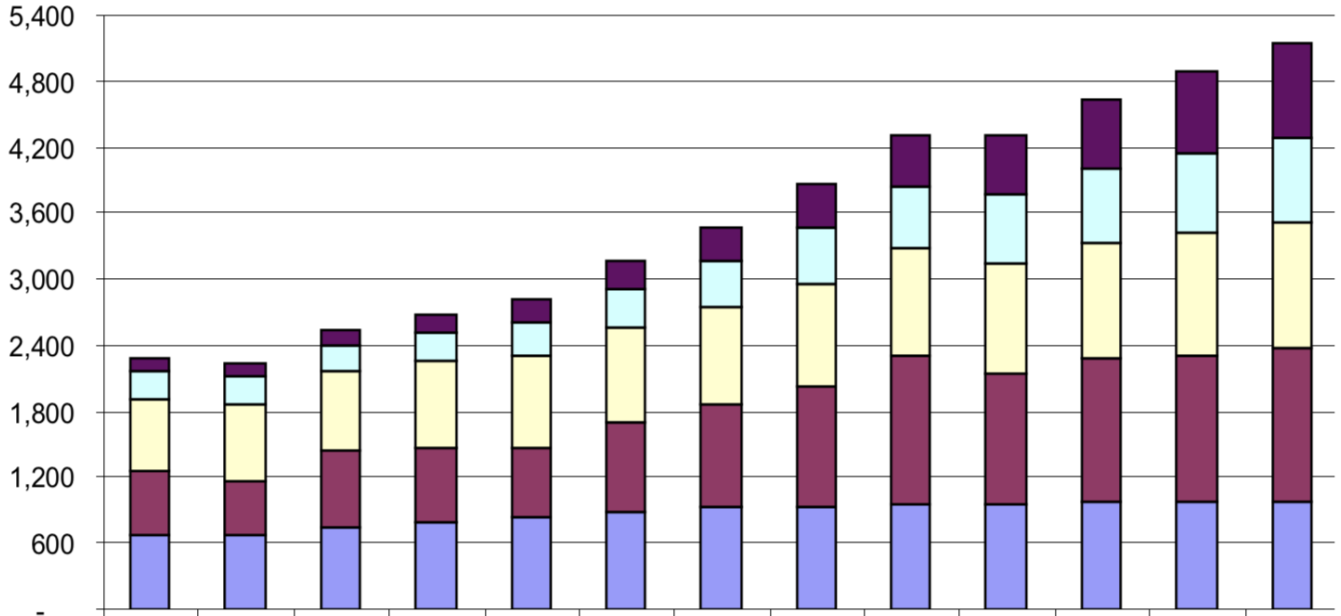
Climate Change Adaptation & Resilience Industry Segments

Climate Change Adaptation Services
Climate Risk Assessment & Analysis
Climate Adaptation & Resiliency Planning
A&R Design, Engineering & Construction Management
Adaptation & Resiliency Construction & Contracting*
Disaster Services
Disaster Risk Reduction
Disaster Preparedness and Response Planning
Disaster Response Contracting*
Climate Adaptation Equipment & Systems
Analytical & Information Systems
Construction Materials & Supplies

*Source: Climate Change Business Journal climate change adaptation and resilience industry model, Environmental Business International, Inc.; * Contracting & Construction not quantified in CCBJ models not quantified as generally specialist companies hire general constructors, civil engineering firms and EPC companies for construction projects.*

Exhibit A:U.S. Climate Change Industry Consulting 2008-2020 ($mil)



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Adaptation & Resilience	123	110	130	158	204	259	317	384	462	551	649	758	876
Green Building	249	255	238	266	303	344	410	505	578	612	662	716	761
Energy Efficiency	660	696	732	780	840	876	900	936	960	1,008	1,056	1,104	1,152
Renew able Energy	582	488	687	667	617	805	928	1,091	1,363	1,186	1,308	1,338	1,377
Mitigation & Compliance	670	682	752	802	849	891	923	939	949	958	967	976	989

Note: Row 1& 5 are portrayed in detail below; Rows 2-4 are consulting services associated with other CCI segments

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