

Initial Washington Green Economy Industry List
E2SHB Implementation Team
July 15, 2008

Legislative Direction

Engrossed Second Substitute House Bill (E2SHB) 2815, passed in 2008, aims to make Washington's economy more sustainable and stimulate job creation in both established and emerging sectors of the "green economy." Section 09 of the bill directs Community, Trade, and Economic Development (CTED) to develop common definitions for "green economy" terms. It also directs the Employment Security Department (ESD) to survey industries to assess what "green jobs" already exist and levels of industry investment directed at preparing for new green jobs in the future.

Green Economy Research

CTED, named as the lead agency for many of E2SHB's task, and ESD, which is the lead agency for conducting the labor market survey, initiated a literature review and held a series of workgroup meetings on the topic. CTED lead Julie Anderson, and ESD lead, Greg Weeks, were assisted by Alan Hardcastle of Washington State University and several members of the research staff of the Labor Market and Economic Analysis Branch, ESD.

The research team reviewed literature from government, non-profit, business, and trade association sources from various parts of the country on the green economy, green industry, and green jobs/green collar jobs. Their research resulted in a first draft definition of green industries which includes renewable energy (including biofuels), energy efficiency, demand-response, green building and construction, recycling materials, and consulting and support industries. These broad industry categories are further defined in an initial green industry list organized by North American Industries Classification System (NAICS) code.

See Attachment.

Key Definitions

The ESD labor survey team, together with CTED, has created the following key definitions that span the NAICS code listings:

The Green Economy is rooted in the development and use of products and services that promote environmental protection, energy independence, and economic development.

Green Jobs are jobs in the primary industries of a green economy that promote environmental protection and energy independence.

Energy Independence includes the development and use of energy efficiency and renewable energy products and services.

Environmental Protection includes the prevention and reduction of environmental pollution, as well as efforts to mitigate environmental pollution.

Initial Washington Green Economy Industry List

Industry	NAICS Code	NAICS Title	Includes
Renewable energy generation			
wind, solar, tidal	221119	Other Electric/Power Generation	solar, tidal, wind, other
geothermal	221330	Steam Production	geothermal steam production
waste incineration	562213	Solid Waste Combustors & Incinerators	
biomass	321113	Sawmills	cogeneration plants selling electricity
	322110	Pulp Mills	
	322121	Paper Mills	100% recycled paper, mnf with Green-E certified renewable energy
fuel cells/other	335999	All Other Miscellaneous Electrical Equipment Manufacturing	fuel cells and other alternative electrical sources
Renewable energy systems transmission/distribution	221122	Electric Power Distribution	
Renewable energy systems support functions			
design	541712	R&D in Physical, Engineering and Life Sciences	
engineer	541330	Engineering Services	engineering consulting, design, and/or services
finance	522110	Commercial Banking	
	522120	Savings Institutions	
	522130	Credit Unions	
	522190	Other Depository Credit	
	523910	Miscellaneous Intermediation	venture capital companies, investment clubs
Renewable energy systems construction			
	237130	Power and Communication Line/Structures	alternative energy structure construction
	238221	Residential Plumbing, Heating, AC	solar heating installation
	238222	Nonresidential Plumb, Heating AC	solar heating installation
	238151	Residential Glass and Glazing	
	238152	Nonresidential Glass and Glazing	
	238161	Residential Roofing	
	238162	Nonresidential Roofing	
	238171	Residential Siding	
	238172	Nonresidential Siding	
	238211	Residential Electrical	
	238212	Nonresidential Electrical	
	238311	Residential Drywall/Insulation	
	238312	Nonresidential Drywall/Insulation	
Biofuels			
	325199	All Other Basic Organic Chemical Mnf	100% bio-diesel production
	324199	All Other Petroleum Mnf	purchasing petrol and blending with 100% vegetable oil to make blend
	111110	Soybean Farming	
	111120	Oilseed, Except Soybean	
	111150	Corn Farming	
Energy efficiency development	541712	(R&D see above)	
	541420	Industrial Design Services	
Energy efficiency manufacturing	335110	Electric Lamp Bulb/Parts Mnf	
	335121	Residential Electric Lighting Fixture Mnf	

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Industry	NAICS Code	NAICS Title	Includes
	335122	Commercial, Industrial, Institutional Lighting Fixture Mnf	
	335129	Other Lighting Equipment Mnf	floodlights, street lights
	335221	Household Cooking Appliance	
	335222	Household Refrigerator/Freezer Appliance	
	335224	Household Laundry Equipment	
	335228	Other Major Household Appliance	dishwashers, water heaters, garbage disposals
	335311	Power, Distribution, Specialty Transformer Mnf	
	335312	Motor and Generator Mnf	
	335313	Switchgear/Switchboard Apparatus Mnf	
	335314	Relay and Industrial Control Mnf	
	335911	Storage Battery Mnf	
	335912	Primary Battery Mnf	
	336111	Automobile Mnf	
	336120	Heavy Duty Truck Mnf	
	336411	Aircraft Mnf	
	327215	Glass Products Made Mrom Purchased Glass	
install energy efficient systems		(see construction above)	
Demand response companies			
Green building/new construction			
	236115	New Single Family Housing Construction	
	236116	New Multifamily Housing Construction	
	236117	New Housing - (spec) operative builders	
	236118	Residential Remodelers	
	236210	Industrial Building Construction	
	236220	Commercial/Institutional Building Construction	
architects	541310	Architectural services	
project developers			
green realty firms	531210	Real Estate Agencies/Brokerages	
Recycled materials			
	562111	Solid Waste Collection	recyclable materials collection
	562910	Remediation services	
	562920	Materials Recovery Facilities	
	562112	Hazardous Waste Collection	collecting and hauling hazardous waste
	562211	Hazardous Waste Treatment and Disposal	
	562119	Other Waste Collection	collecting and hauling brush and other waste
	562212	Solid Waste Landfill	
	562219	Other Nonhazardous Waste Treatment and Disposal	compost dumps
	562998	All Other Miscellaneous Waste Management Services	
Consulting and support			
	541620	Environmental Consulting Services	
	813312	Environment, Conservation and Wildlife Organizations	