

Green Sectors Cheat Sheet (cont'd) – Slide 7

- **Research, Design, and Consulting Services** – “Indirect” green services such as energy consulting or miscellaneous business services
 - Employers Impacted – Various companies offering green products and services
 - Occupations Impacted – Engineering business consulting, marketing, PR, sales, and finance jobs
- **Environment Protection** – Restoring contaminated sites, preparing for climate changes, enhancing air quality
 - Employers Impacted – Governmental agencies, companies producing emissions and other hazardous waste
 - Occupations Impacted – Environmental scientists, natural science managers, environmental engineers, hazardous materials removal workers
- **Agriculture and Forestry** – Organic farming, efficient land use and management, aquaculture
 - Employers Impacted – Farms and ranches
 - Occupations Impacted – Agricultural workers and inspectors, farmers, ranchers, landscape architects
- **Manufacturing** – Production of green materials, energy efficient manufacturing processes
 - Employers Impacted – Various manufacturers
 - Occupations Impacted – Manufacturing jobs, engineering technicians, machinists, occupational health and safety technicians
- **Recycling and Waste Reduction** – Solid waste and waste water management, treatment and reduction; processing recyclable materials
 - Employers Impacted – Waste treatment plants and recycling facilities
 - Occupations Impacted – Plant operators, recyclable materials collectors
- **Governmental and Regulatory** – Conservation, pollution prevention, regulation enforcement, policy analysis and advocacy
 - Employers Impacted – Governmental, for-profit, and non-profit organizations related to environmental causes
 - Occupations Impacted – Researchers, compliance managers, policy advisors, agriculture inspectors, soil and water conservationists, environmental engineers

Source: Dierdorff, Erich, et al. “Greening of the World of Work: Implications for O*NET®-SOC and New and Emerging Occupations.” *ONET Center*. 12 February 2010. http://www.onetcenter.org/dl_files/Green.pdf.

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- **Renewable Energy Generation** - Solar, wind, geothermal, biomass, hydropower, hydrogen energy; cleaner production of traditional non-renewable energy (e.g. coal, gas, oil, nuclear)
 - Employers Impacted – Wind farms; wind turbine manufacturers; hydroelectric facilities; solar system manufacturers, sellers, installers
 - Occupations Impacted – Power distributors and dispatchers, power system operators, electrical and mechanical engineers, continuous mining machine operators, geological sample test technicians
- **Transportation** - Reducing impact of various modes of transit (e.g. using ethanol and biodiesel, making, using more energy efficient vehicles, designing eco-friendly transportation systems)
 - Employers Impacted – Automobile manufacturers, public transportation systems, railroad companies, trucking companies
 - Occupations Impacted – Railroad conductors, locomotive engineers, automotive specialty technicians, transportation managers, electronic engineers, transportation managers, electronics engineers, fuel cell engineers and technicians, automotive engineers and technicians
- **Energy Efficiency** - Using less energy to meet the same energy demands, reducing energy waste
 - Employers Impacted – Smart grid companies; manufacturers of energy saving products such as LED lights, energy saving window systems, and low/zero-wattage lighting; weatherization initiatives
 - Occupations Impacted – Energy auditors; manufacturing, sales, and design jobs; installation, maintenance, and inspection jobs; heating and air conditioning mechanics and installers
- **Green Construction** – Retrofitting buildings, constructing energy efficient buildings, installation of green building technologies, government-backed green construction programs
 - Employers Impacted – Green design and construction firms, green construction materials manufacturers
 - Occupations Impacted – Manufacturing jobs, carpenters, electricians, cement masons, concrete finishers, welders
- **Energy Trading** - Buying and selling of energy as a commodity, emission trading, carbon trading
 - Employer Impacted – Financial services, industrial/power plants, companies with emission caps
 - Occupations Impacted – Financial analysts; securities, commodities, and financial services sales agents
- **Energy and Carbon Capture** – Capturing and storing energy and carbon emissions, improving coal-based power plants so that they use less resources (e.g. water) and emit less hazardous waste (e.g. mercury, particulates)
 - Employers Impacted – Coal-based power plants
 - Occupations impacted – Power plant operators, occupations related to the construction and maintenance of carbon transport pipelines