

## Digest of Green Reports and Studies

<b>Title</b>	<b><i>Defining, Estimating, and Forecasting the Renewable Energy and Energy Efficiency industries in the U.S. and Colorado.</i></b>
<b>Author</b>	Compilation
<b>Organization</b>	The American Solar Energy Society (ASES), Colorado and Management Information Services (CMIS), Washington D.C.
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<b>URL</b>	<a href="http://www.colorado.gov/energy/in/uploaded_pdf/GreenJobsReportFull.pdf">http://www.colorado.gov/energy/in/uploaded_pdf/GreenJobsReportFull.pdf</a>
<b>Summary</b>	<p>This report, compiled in December 2008, presents the results from a study conducted by The American Solar Energy Society (ASES) and Colorado and Management Information Services (CMIS) which focused on gaining in-depth knowledge on the renewable energy and energy efficiency (RE&amp;EE) industries in Colorado and in the U.S.</p> <p>The study followed three key steps to achieve a better understanding of these industries:</p> <ul style="list-style-type: none"> <li>• “Development of a rigorous definition of the RE and the EE industries,”</li> <li>• Determination of the approximate size and composition of the industry</li> <li>• The formation of three different forecasts of the industries in 2030 based on three different scenarios (base, moderate and advanced).</li> </ul> <p>The study found that the RE&amp;EE industries, when grouped together, have a positive impact on both the U.S. and Colorado's economies, but more importantly have the potential for an even bigger impact if the proper steps are taken now (training, education, policies). The future is heavily dependent on what initiatives are taken now or in the near future, a delay in action will drastically delay reaching the goals that are set for 2030. The results of the three forecasts showed that “without significant changes in policy, RE&amp;EE is not expected to significantly increase its share of the U.S. energy market.”</p>
<b>Key Findings</b>	<ul style="list-style-type: none"> <li>• “In 2007 the U.S. RE&amp;EE industries generated \$1,045 billion in sales and created over 9 million jobs.”</li> <li>• Certain Renewable Energy sectors (wind, photovoltaics, ethanol, and biodiesel) in Colorado are “large players” in the U.S. market. Hydroelectric power, geothermal, and biomass power play a much smaller role in the U.S. market.</li> <li>• It will not work to “use RE as a job creation program for the disadvantaged, the chronically unemployed or target populations” in Colorado.</li> <li>• The Renewable Energy (RE) industry alone is not a big part of Colorado's economy. “When Energy Efficiency (EE) is considered in conjunction with Renewable Energy (RE)” research shows that they do have an affect on the market,” and together created over 91,000 jobs in Colorado in 2007.</li> <li>• “Colorado is will positioned to facilitate and to take advantage of rapid growth in the RE&amp;EE industries.”</li> <li>• The RE&amp;EE industries are effectively creating jobs and “creates more that 8,600 jobs per billion dollar of expenditure.”</li> <li>• It will be easier and more feasible to reach the goals of 2030 if policies are implanted now.</li> <li>• “Education and training programs will have to be developed and expanded in the near to facilitate the anticipated growth of RE&amp;EE.”</li> <li>• The RE&amp;EE industries will create jobs for people with all levels of education.</li> </ul>
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• State educational planners should use the information and findings in this report to determine the education and training that is needed to fill current and upcoming green job demand.</li> <li>• “Education and training programs will have to be developed and expanded in the near future to facilitate the anticipated growth of RE&amp;EE.”</li> <li>• Colorado should “recruit RE&amp;EE companies to take advantage of its skilled workforce for turbine manufacturing, biofuels production, green IT, fuel cell development, green buildings etc.”</li> <li>• State and local communities can bring jobs in by embracing the RE&amp;EE industry.</li> <li>• It is extremely important that individual states within the United States, and the country as a whole, work to establish and promote green initiatives as quickly as possible in order to stay competitive in the world market. This is because other countries (such as Germany who has a much smaller population than the U.S.) are already more advanced in the green movement than the U.S.</li> </ul>
<b>Definition of</b>	For the purpose of this study, green jobs are defined as jobs that, “as a result of

<b>“Green”</b>	environmental pressures and concerns, have produced the development of numerous products, processes, and services, which specifically target the reduction of environmental impact.”
<b>Methodology</b>	Literature research, survey
<b>Data Sources Cited</b>	U.S. Energy Information Administration, U.S. Census Bureau, American Wind Energy Association,
<b>Report Geography</b>	Colorado, U.S.
<b>Green Occupations Cited</b>	<ul style="list-style-type: none"> <li>• Chief Executives</li> <li>• General and operations managers</li> <li>• Legislators</li> <li>• Advertising and promotions managers</li> <li>• Marketing managers</li> <li>• Sales managers</li> <li>• Public relations managers</li> <li>• Administrative services managers</li> <li>• Computer and information systems managers</li> <li>• Financial managers</li> <li>• Compensation and benefits managers</li> <li>• Training and development managers</li> <li>• Human resources managers, all other</li> <li>• Industrial production managers</li> <li>• Purchasing managers</li> <li>• Transportation, storage, and distribution managers</li> <li>• Farm, ranch, and other agricultural managers</li> <li>• Construction managers</li> <li>• Education administrators, preschool and child care center/program</li> <li>• Education administrators, elementary and secondary school</li> <li>• Education administrators, postsecondary</li> <li>• Education administrators, all other</li> <li>• Engineering managers</li> <li>• Food service managers</li> <li>• Funeral directors</li> <li>• Lodging managers</li> <li>• Medical and health services managers</li> <li>• Natural sciences managers</li> <li>• Postmasters and mail superintendents</li> <li>• Property, real estate, and community association managers</li> <li>• Social and community service managers</li> <li>• Managers, all other</li> <li>• Agents and business managers of artists, performers, and athletes</li> <li>• Purchasing agents and buyers, farm products</li> <li>• Wholesale and retail buyers, except farm products</li> <li>• Purchasing agents, except wholesale, retail, and farm products</li> <li>• Claims adjusters, examiners, and investigators</li> <li>• Insurance appraisers, auto damage</li> <li>• Compliance officers, except agriculture, construction, health and safety, and transportation</li> <li>• Cost estimators</li> <li>• Emergency Management Specialists</li> <li>• Employment, recruitment, and placement specialists</li> <li>• Compensation, benefits, and job analysis specialists</li> <li>• Training and development specialists</li> <li>• Human resources, training, and labor relations specialists, all other</li> <li>• Logisticians</li> <li>• Management analysts</li> <li>• Meeting and convention planners</li> <li>• Business operations specialists, all other</li> <li>• Accountants and auditors</li> <li>• Appraisers and assessors of real estate</li> <li>• Budget analysts</li> <li>• Credit analysts</li> <li>• Financial analysts</li> </ul>

- Personal financial advisors
- Insurance underwriters
- Financial examiners
- Loan counselors
- Loan officers
- Tax examiners, collectors, and revenue agents
- Tax preparers
- Financial specialists, all other
- Computer and information scientists, research
- Computer programmers
- Computer software engineers, applications
- Computer software engineers, systems software
- Computer support specialists
- Computer systems analysts
- Database administrators
- Network and computer systems administrators
- Network systems and data communications analysts
- Computer specialists, all other
- Actuaries
- Mathematicians
- Operations research analysts
- Statisticians
- Architects, except landscape and naval
- Landscape architects
- Cartographers and photogrammetrists
- Surveyors
- Aerospace engineers
- Agricultural engineers
- Biomedical engineers
- Chemical engineers
- Civil engineers
- Computer Hardware Engineers
- Electrical engineers
- Electronics engineers, except computer
- Environmental engineers
- Health and safety engineers, except mining safety engineers and inspectors
- Industrial engineers
- Materials engineers
- Mechanical engineers
- Mining and geological engineers, including mining safety engineers
- Nuclear engineers
- Petroleum engineers
- Engineers, all other
- Architectural and civil drafters
- Electrical and electronics drafters
- Mechanical drafters
- Drafters, all other
- Aerospace engineering and operations technicians
- Civil engineering technicians
- Electrical and electronic engineering technicians
- Electro-mechanical technicians
- Environmental engineering technicians
- Industrial engineering technicians
- Mechanical engineering technicians
- Engineering technicians, except drafters, all other
- Surveying and mapping technicians
- Food scientists and technologists
- Soil and plant scientists
- Biochemists and biophysicists
- Microbiologists
- Zoologists and wildlife biologists
- Biological scientists, all other

- Conservation scientists
- Foresters
- Epidemiologists
- Medical scientists, except epidemiologists
- Astronomers
- Physicists
- Atmospheric and space scientists
- Chemists
- Materials scientists
- Environmental scientists and specialists, including health
- Geoscientists, except hydrologists and geographers
- Hydrologists
- Physical scientists, all other
- Economists
- Market Research Analysts
- Survey researchers
- Clinical, counseling, and school psychologists
- Psychologists, all other
- Sociologists
- Urban and regional planners
- Anthropologists and archeologists
- Historians
- Social scientists and related workers, all other
- Agricultural and food science technicians
- Biological technicians
- Chemical technicians
- Geological and petroleum technicians
- Social science research assistants
- Environmental science and protection technicians, including health
- Forensic science technicians
- Forest and conservation technicians
- Life, physical, and social science technicians, all other
- Substance abuse and behavioral disorder counselors
- Educational, vocational, and school counselors
- Marriage and family therapists
- Mental health counselors
- Rehabilitation counselors
- Child, family, and school social workers
- Medical and public health social workers
- Mental health and substance abuse social workers
- Social workers, all other
- Health educators
- Probation officers and correctional treatment specialists
- Social and human service assistants
- Community and social service specialists, all other
- Clergy
- Directors, religious activities and education
- Religious workers, all other
- Lawyers
- Arbitrators, mediators, and conciliators
- Judges, magistrate judges, and magistrates
- Paralegals and legal assistants
- Court reporters
- Law clerks
- Title examiners, abstractors, and searchers
- Legal support workers, all other
- Business teachers, postsecondary
- Computer science teachers, postsecondary
- Mathematical science teachers, postsecondary
- Architecture teachers, postsecondary
- Engineering teachers, postsecondary
- Agricultural sciences teachers, postsecondary

- Biological science teachers, postsecondary
- Atmospheric, earth, marine, and space sciences teachers, postsecondary
- Chemistry teachers, postsecondary
- Physics teachers, postsecondary
- Anthropology and archeology teachers, postsecondary
- Area, ethnic, and cultural studies teachers, postsecondary
- Economics teachers, postsecondary
- Geography teachers, postsecondary
- Political science teachers, postsecondary
- Psychology teachers, postsecondary
- Sociology teachers, postsecondary
- Social sciences teachers, postsecondary, all other
- Health specialties teachers, postsecondary
- Nursing instructors and teachers, postsecondary
- Education teachers, postsecondary
- Library science teachers, postsecondary
- Criminal justice and law enforcement teachers, postsecondary
- Law teachers, postsecondary
- Social work teachers, postsecondary
- Art, drama, and music teachers, postsecondary
- Communications teachers, postsecondary
- English language and literature teachers, postsecondary
- Foreign language and literature teachers, postsecondary
- History teachers, postsecondary
- Philosophy and religion teachers, postsecondary
- Home economics teachers, postsecondary
- Recreation and fitness studies teachers, postsecondary
- Vocational education teachers, postsecondary
- Postsecondary teachers, all other
- Preschool teachers, except special education
- Kindergarten teachers, except special education
- Elementary school teachers, except special education
- Middle school teachers, except special and vocational education
- Vocational education teachers, middle school
- Secondary school teachers, except special and vocational education
- Vocational education teachers, secondary school
- Special education teachers, preschool, kindergarten, and elementary school
- Special education teachers, middle school
- Special education teachers, secondary school
- Adult literacy, remedial education, and GED teachers and instructors
- Self-enrichment education teachers
- Teachers and instructors, all other
- Archivists
- Curators
- Museum technicians and conservators
- Librarians
- Library technicians
- Instructional coordinators
- Teacher assistants
- Education, training, and library workers, all other
- Art directors
- Craft artists
- Fine artists, including painters, sculptors, and illustrators
- Multi-media artists and animators
- Artists and related workers, all other
- Commercial and industrial designers
- Fashion designers
- Floral designers
- Graphic designers
- Interior designers
- Merchandise displayers and window trimmers
- Set and exhibit designers

- Designers, all other
- Actors
- Producers and directors
- Athletes and sports competitors
- Coaches and scouts
- Umpires, referees, and other sports officials
- Dancers
- Music directors and composers
- Musicians and singers
- Entertainers and performers, sports and related workers, all other
- Public address system and other announcers
- Broadcast news analysts
- Reporters and correspondents
- Public relations specialists
- Editors
- Technical writers
- Writers and authors
- Interpreters and translators
- Film and video editors
- Media and communication workers, all other
- Audio and video equipment technicians
- Broadcast technicians
- Sound engineering technicians
- Photographers
- Camera operators, television, video, and motion picture
- Media and communication equipment workers, all other
- Chiropractors
- Dentists, general
- Orthodontists
- Dentists, all other specialists
- Dietitians and nutritionists
- Optometrists
- Pharmacists
- Anesthesiologists
- Family and general practitioners
- Internists, general
- Obstetricians and gynecologists
- Pediatricians, general
- Psychiatrists
- Surgeons
- Physicians and surgeons, all other
- Physician assistants
- Podiatrists
- Registered nurses
- Audiologists
- Occupational therapists
- Physical therapists
- Radiation therapists
- Recreational therapists
- Respiratory therapists
- Speech-language pathologists
- Therapists, all other
- Veterinarians
- Health diagnosing and treating practitioners, all other
- Medical and clinical laboratory technologists
- Medical and clinical laboratory technicians
- Dental hygienists
- Cardiovascular technologists and technicians
- Diagnostic medical sonographers
- Nuclear medicine technologists
- Radiologic technologists and technicians
- Emergency medical technicians and paramedics

- Dietetic technicians
- Pharmacy technicians
- Psychiatric technicians
- Respiratory therapy technicians
- Surgical technologists
- Veterinary technologists and technicians
- Licensed practical and licensed vocational nurses
- Medical records and health information technician
- Opticians, dispensing
- Orthotists and prosthetists
- Health technologists and technicians, all other
- Occupational health and safety specialists
- Occupational health and safety technicians
- Athletic trainers
- Healthcare practitioners and technical workers, all other
- Home health aides
- Nursing aides, orderlies, and attendants
- Psychiatric aides
- Occupational therapist assistants
- Occupational therapist aides
- Physical therapist assistants
- Physical therapist aides
- Massage therapists
- Dental assistants
- Medical assistants
- Medical equipment preparers
- Medical transcriptionists
- Pharmacy aides
- Veterinary assistants and laboratory animal caretakers
- Healthcare support workers, all other
- First-line supervisors/managers of correctional officers
- First-line supervisors/managers of police and detectives
- First-line supervisors/managers of fire fighting and prevention workers
- First-line supervisors/managers, protective service workers, all other
- Fire fighters
- Fire inspectors and investigators
- Bailiffs
- Correctional officers and jailers
- Detectives and criminal investigators
- Fish and game wardens
- Parking enforcement workers
- Police and sheriff's patrol officers
- Animal control workers
- Private detectives and investigators
- Gaming surveillance officers and gaming investigators
- Security guards
- Crossing guards
- Lifeguards, ski patrol, and other recreational protective service workers
- Protective service workers, all other
- Chefs and head cooks
- First-line supervisors/managers of food preparation and serving workers
- Cooks, fast food
- Cooks, institution and cafeteria
- Cooks, restaurant
- Cooks, short order
- Cooks, all other
- Food preparation workers
- Bartenders
- Combined food preparation and serving workers, including fast food
- Counter attendants, cafeteria, food concession, and coffee shop
- Waiters and waitresses
- Food servers, nonrestaurant

- Dining room and cafeteria attendants and bartender helpers
- Dishwashers
- Hosts and hostesses, restaurant, lounge, and coffee shop
- Food preparation and serving related workers, all other
- First-line supervisors/managers of housekeeping and janitorial workers
- First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers
- Janitors and cleaners, except maids and housekeeping cleaners
- Maids and housekeeping cleaners
- Building cleaning workers, all other
- Pest control workers
- Landscaping and groundskeeping workers
- Pesticide handlers, sprayers, and applicators, vegetation
- Tree trimmers and pruners
- Grounds maintenance workers, all other
- Gaming supervisors
- Slot key persons
- First-line supervisors/managers of personal service workers
- Animal trainers
- Nonfarm animal caretakers
- Gaming dealers
- Gaming and sports book writers and runners
- Gaming service workers, all other
- Motion picture projectionists
- Ushers, lobby attendants, and ticket takers
- Amusement and recreation attendants
- Costume attendants
- Locker room, coatroom, and dressing room attendants
- Entertainment attendants and related workers, all other
- Embalmers
- Funeral attendants
- Hairdressers, hairstylists, and cosmetologists
- Manicurists and pedicurists
- Shampooers
- Skin care specialists
- Baggage porters and bellhops
- Concierges
- Tour guides and escorts
- Travel guides
- Flight attendants
- Transportation attendants, except flight attendants and baggage porters
- Child care workers
- Personal and home care aides
- Fitness trainers and aerobics instructors
- Recreation workers
- Residential advisors
- Personal care and service workers, all other
- First-line supervisors/managers of retail sales workers
- First-line supervisors/managers of non-retail sales workers
- Cashiers
- Gaming change persons and booth cashiers
- Counter and rental clerks
- Parts salespersons
- Retail salespersons
- Advertising sales agents
- Insurance sales agents
- Securities, commodities, and financial services sales agents
- Travel agents
- Sales representatives, services, all other
- Sales representatives, wholesale and manufacturing, technical and scientific products
- Sales representatives, wholesale and manufacturing, except technical and scientific products



- Demonstrators and product promoters
- Real estate brokers
- Real estate sales agents
- Sales engineers
- Telemarketers
- Door-to-door sales workers, news and street vendors, and related workers
- Sales and related workers, all other
- First-line supervisors/managers of office and administrative support workers
- Switchboard operators, including answering service
- Bill and account collectors
- Billing and posting clerks and machine operators
- Bookkeeping, accounting, and auditing clerks
- Gaming cage workers
- Payroll and timekeeping clerks
- Procurement clerks
- Tellers
- Brokerage clerks
- Correspondence clerks
- Court, municipal, and license clerks
- Credit authorizers, checkers, and clerks
- Customer service representatives
- Eligibility interviewers, government programs
- File clerks
- Hotel, motel, and resort desk clerks
- Interviewers, except eligibility and loan
- Library assistants, clerical
- Loan interviewers and clerks
- New accounts clerks
- Order clerks
- Human resources assistants, except payroll and timekeeping
- Receptionists and information clerks
- Reservation and transportation ticket agents and travel clerks
- All other information and record clerks
- Cargo and freight agents
- Couriers and messengers
- Police, fire, and ambulance dispatchers
- Dispatchers, except police, fire, and ambulance
- Meter readers, utilities
- Postal service clerks
- Postal service mail carriers
- Postal service mail sorters, processors, and processing machine operators
- Production, planning, and expediting clerks
- Shipping, receiving, and traffic clerks
- Stock clerks and order fillers
- Weighers, measurers, checkers, and samplers, recordkeeping
- Executive secretaries and administrative assistants
- Legal secretaries
- Medical secretaries
- Secretaries, except legal, medical, and executive
- Computer operators
- Data entry keyers
- Word processors and typists
- Desktop publishers
- Insurance claims and policy processing clerks
- Mail clerks and mail machine operators, except postal service
- Office clerks, general
- Office machine operators, except computer
- Proofreaders and copy markers
- Statistical assistants
- Office and administrative support workers, all other
- First-line supervisors/managers of farming, fishing, and forestry workers
- Agricultural inspectors

- Graders and sorters, agricultural products
- Agricultural equipment operators
- Farmworkers and laborers, crop, nursery, and greenhouse
- Farmworkers, farm and ranch animals
- Agricultural workers, all other
- Forest and conservation workers
- Fallers
- Logging equipment operators
- First-line supervisors/managers of construction trades and extraction workers
- Boilermakers
- Brickmasons and blockmasons
- Floor sanders and finishers
- Tile and marble setters
- Cement masons and concrete finishers
- Construction laborers
- Paving, surfacing, and tamping equipment operators
- Operating engineers and other construction equipment operators
- Drywall and ceiling tile installers
- Tapers
- Electricians
- Glaziers
- Insulation workers, floor, ceiling, and wall
- Insulation workers, mechanical
- Painters, construction and maintenance
- Paperhangers
- Pipelayers
- Plumbers, pipefitters, and steamfitters
- Plasterers and stucco masons
- Reinforcing iron and rebar workers
- Roofers
- Sheet metal workers
- Structural iron and steel workers
- Helpers--brickmasons, blockmasons, stonemasons, and tile and marble setters
- Helpers--carpenters
- Helpers--electricians
- Helpers--painters, paperhangers, plasterers, and stucco masons
- Helpers--pipelayers, plumbers, pipefitters, and steamfitters
- Carpenters
- Carpet installers
- Floor layers, except carpet, wood, and hard tiles
- Helpers-roofers
- Helpers, construction trades, all other
- Construction and building inspectors
- Elevator installers and repairers
- Fence erectors
- Hazardous materials removal workers
- Highway maintenance workers
- Rail-track laying and maintenance equipment operators
- Septic tank servicers and sewer pipe cleaners
- Construction and related workers, all other
- Derrick operators, oil and gas
- Rotary drill operators, oil and gas
- Service unit operators, oil, gas, and mining
- Earth drillers, except oil and gas
- Explosives workers, ordnance handling experts, and blasters
- Mine cutting and channeling machine operators
- Mining machine operators, all other
- Rock splitters, quarry
- Roof bolters, mining
- Roustabouts, oil and gas
- Helpers--extraction workers
- Extraction workers, all other

- First-line supervisors/managers of mechanics, installers, and repairers
- Computer, automated teller, and office machine repairers
- Radio mechanics
- Telecommunications equipment installers and repairers, except line installers
- Avionics technicians
- Electric motor, power tool, and related repairers
- Electrical and electronics installers and repairers, transportation equipment
- Electrical and electronics repairers, commercial and industrial equipment
- Electrical and electronics repairers, powerhouse, substation, and relay
- Electronic equipment installers and repairers, motor vehicles
- Electronic home entertainment equipment installers and repairers
- Security and fire alarm systems installers
- Aircraft mechanics and service technicians
- Automotive body and related repairers
- Automotive glass installers and repairers
- Automotive service technicians and mechanics
- Bus and truck mechanics and diesel engine specialists
- Farm equipment mechanics
- Mobile heavy equipment mechanics, except engines
- Rail car repairers
- Motorboat mechanics
- Motorcycle mechanics
- Outdoor power equipment and other small engine mechanics
- Bicycle repairers
- Recreational vehicle service technicians
- Tire repairers and changers
- Mechanical door repairers
- Control and valve installers and repairers, except mechanical door
- Heating, air conditioning, and refrigeration mechanics and installers
- Home appliance repairers
- Industrial machinery mechanics
- Maintenance and repair workers, general
- Maintenance workers, machinery
- Millwrights
- Electrical power-line installers and repairers
- Telecommunications line installers and repairers
- Camera and photographic equipment repairers
- Medical equipment repairers
- Musical instrument repairers and tuners
- Precision instrument and equipment repairers, all other
- Coin, vending, and amusement machine servicers and repairers
- Fabric menders, except garment
- Locksmiths and safe repairers
- Manufactured building and mobile home installers
- Riggers
- Signal and track switch repairers
- Helpers--installation, maintenance, and repair workers
- Installation, maintenance, and repair workers, all other
- First-line supervisors/managers of production and operating workers
- Aircraft structure, surfaces, rigging, and systems assemblers
- Electrical and electronic equipment assemblers
- Electromechanical equipment assemblers
- Engine and other machine assemblers
- Structural metal fabricators and fitters
- Team assemblers
- Assemblers and fabricators, all other
- Bakers
- Butchers and meat cutters
- Meat, poultry, and fish cutters and trimmers
- Slaughterers and meat packers
- Food and tobacco roasting, baking, and drying machine operators and tenders
- Food batchmakers

- Food cooking machine operators and tenders
- Computer-controlled machine tool operators, metal and plastic
- Numerical tool and process control programmers
- Extruding and drawing machine setters, operators, and tenders, metal and plastic
- Rolling machine setters, operators, and tenders, metal and plastic
- Cutting, punching, and press machine setters, operators, and tenders, metal and plastic
- Drilling and boring machine tool setters, operators, and tenders, metal and plastic
- Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic
- Lathe and turning machine tool setters, operators, and tenders, metal and plastic
- Milling and planing machine setters, operators, and tenders, metal and plastic
- Machinists
- Pourers and casters, metal
- Model makers, metal and plastic
- Foundry mold and coremakers
- Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic
- Multiple machine tool setters, operators, and tenders, metal and plastic
- Tool and die makers
- Welders, cutters, solderers, and brazers
- Welding, soldering, and brazing machine setters, operators, and tenders
- Heat treating equipment setters, operators, and tenders, metal and plastic
- Lay-out workers, metal and plastic
- Plating and coating machine setters, operators, and tenders, metal and plastic
- Tool grinders, filers, and sharpeners
- Metal workers and plastic workers, all other
- Bindery workers
- Job printers
- Prepress technicians and workers
- Printing machine operators
- Laundry and dry-cleaning workers
- Pressers, textile, garment, and related materials
- Sewing machine operators
- Shoe and leather workers and repairers
- Sewers, hand
- Tailors, dressmakers, and custom sewers
- Fabric and apparel patternmakers
- Upholsterers
- Textile, apparel, and furnishings workers, all other
- Cabinetmakers and bench carpenters
- Furniture finishers
- Sawing machine setters, operators, and tenders, wood
- Woodworking machine setters, operators, and tenders, except sawing
- Woodworkers, all other
- Power distributors and dispatchers
- Power plant operators
- Stationary engineers and boiler operators
- Water and liquid waste treatment plant and system operators
- Chemical plant and system operators
- Gas plant operators
- Petroleum pump system operators, refinery operators, and gaugers
- Plant and system operators, all other
- Chemical equipment operators and tenders
- Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders
- Crushing, grinding, and polishing machine setters, operators, and tenders
- Grinding and polishing workers, hand
- Mixing and blending machine setters, operators, and tenders
- Cutters and trimmers, hand
- Cutting and slicing machine setters, operators, and tenders
- Extruding, forming, pressing, and compacting machine setters, operators, and

tenders

- Furnace, kiln, oven, drier, and kettle operators and tenders
- Inspectors, testers, sorters, samplers, and weighers
- Jewelers and precious stone and metal workers
- Dental laboratory technicians
- Medical appliance technicians
- Ophthalmic laboratory technicians
- Packaging and filling machine operators and tenders
- Coating, painting, and spraying machine setters, operators, and tenders
- Painters, transportation equipment
- Painting, coating, and decorating workers
- Photographic process workers
- Photographic processing machine operators
- Semiconductor processors
- Cementing and gluing machine operators and tenders
- Cleaning, washing, and metal pickling equipment operators and tenders
- Cooling and freezing equipment operators and tenders
- Etchers and engravers
- Molders, shapers, and casters, except metal and plastic
- Paper goods machine setters, operators, and tenders
- Helpers--production workers
- Production workers, all other
- Aircraft cargo handling supervisors
- First-line supervisors/managers of helpers, laborers, and material movers, hand
- First-line supervisors/managers of transportation and material-moving machine and vehicle operators
- Airline pilots, copilots, and flight engineers
- Commercial pilots
- Air traffic controllers
- Airfield operations specialists
- Ambulance drivers and attendants, except emergency medical technicians
- Bus drivers, transit and intercity
- Bus drivers, school
- Driver/sales workers
- Truck drivers, heavy and tractor-trailer
- Truck drivers, light or delivery services
- Taxi drivers and chauffeurs
- Motor vehicle operators, all other
- Locomotive engineers
- Rail yard engineers, dinkey operators, and hostlers
- Railroad brake, signal, and switch operators
- Railroad conductors and yardmasters
- Parking lot attendants
- Service station attendants
- Traffic technicians
- Transportation inspectors
- Transportation workers, all other
- Conveyor operators and tenders
- Crane and tower operators
- Excavating and loading machine and dragline operators
- Loading machine operators, underground mining
- Hoist and winch operators
- Industrial truck and tractor operators
- Cleaners of vehicles and equipment
- Laborers and freight, stock, and material movers, hand
- Machine feeders and offbearers
- Packers and packagers, hand
- Gas compressor and gas pumping station operators
- Pump operators, except wellhead pumpers
- Wellhead pumpers
- Refuse and recyclable material collectors
- Tank car, truck, and ship loaders

	<ul style="list-style-type: none"> <li>• Material moving workers, all other</li> </ul>
<b>Green Industries Cited</b>	Energy efficiency, renewable energy, recycling plants, solar energy, environmental engineering, solar energy, energy efficient construction, natural resources and mining, recycle, construction, biogas, biomass, hydrogen, transportation and energy storage, waste management
<b>Keywords</b>	Biomass; fuel cells; hydrogen; energy efficiency (EE); renewable energy (RE); biologic technology; new energy communities.
<b>Legislation Cited</b>	Colorado Climate Action Plan
<b>Bibliography (Y/N)</b>	Y
<b>Reviewer Name/Org</b>	D. Costello / Labor Market Information Division, California

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