

## Current Green Jobs

### Local Current and Potential Green Jobs

| Metro Area                             | Existing in 2006 | New through 2038 |
|--|------------------|------------------|
| Minneapolis-St. Paul, Bloomington , MN | 4,811            | 38,063           |

### Definition of green job

- Any activity that generates electricity using renewable or nuclear fuels
- Agriculture jobs supplying corn or soy for transportation fuel
- Manufacturing jobs producing goods used in renewable power generation
- Equipment dealers and wholesalers specializing in renewable energy or energy-efficient products
- Construction and installation of energy and pollution management systems
- Government administration of environmental programs
- Supporting jobs in the engineering, legal and consulting fields

| Green Jobs by Major Category – U.S. Total     |                |
|---|----------------|
| Renewable power generation                    | 127,246        |
| Agriculture and forestry                      | 57,546         |
| Construction and Systems Installation         | 8,741          |
| Manufacturing                                 | 60,699         |
| Equipment dealers and wholesalers             | 6,205          |
| Engineering, legal, research and construction | 418,715        |
| Government administration                     | 71,900         |
| <b>TOTAL</b>                                  | <b>751,051</b> |

### U.S Conference of Mayors – Global Insight Green Jobs Index (2006)

- 85% located in metropolitan areas
- 15% in non-metropolitan counties
- Highest ranking areas are largest metropolitan economies in country (nearly half of country's green jobs are in engineering, legal, research and consulting categories)

## Green Job Potential Growth

### Renewable Power Generation

#### Wind Power

- Wind power is currently the fastest growing alternative energy source in the country
- Wind generation in 2007 was 32.1 billion kWh – 21% increase from one year earlier
- 2008 projected to be another record year- 45% increase in capacity
- Wind now accounts for 10% of renewable electricity generation
- Less than one-half of one percent of wind's potential generation has been tapped

#### Green jobs created

- Bulk of jobs related to WIND infrastructure will come in manufacturing of equipment
- Many potential manufacturing jobs in SOLAR are in high tech jobs in semiconductor and related devices subsector
- Investment in HYDROPOWER will generate jobs – not just infrastructure but also in cities and towns that are best able to attract manufacturing firms to build the necessary generators, turbines, rotors, blades, and other associated parts
- BIOMASS sector in waste management, to recover usable woods and waste products, harvesting and manufacturing of raw fuels (agriculture byproducts as fuels)

#### Residential and Commercial Retrofitting

##### Green jobs created

- Specialty trade contractor in construction sector will ultimately benefit the most from new employment opportunities
- Renovation work and installation of efficiency upgrades
- New opportunities for electricians, HVAC technicians, carpenters, plumbers, roofers, laborers, and insulation workers
- Increased demand for green building materials

#### Indirect jobs

- Engineering, legal, research and consulting positions play major role in Green Economy

#### Forecast Results

Renewable power generation would lead to the generation of more than 1.2 million jobs. The trajectory of job growth is similar to the assumed path of electricity generation. There is relatively smooth growth as the manufacturing sector expands to install new equipment, and more jobs are created to operate and maintain the new infrastructure.

The potential growth in green jobs is significant in that it could be the fastest growing segment in the US economy over the next several decades and dramatically increase its share of total employment.

**Source:** Diaz, M., Nickels, G., Kautz, E., and Cochran, T. October 2008. *U.S. Metro Economies: Current and Potential Green Jobs in the U.S. Economy*. Global Insight, Inc (prepared for the United States Conference of Mayors and the Mayors Climate Protection Center). Lexington, MA.