### A Just Transition

# to Clean Energy and Greener Economies and Societies

Kees Van Der Ree Green Jobs Programme Internationnal Labour Organisation, Geneva



#### A few words about the ILO

 Tripartite membership, governance and operational modalities: the key role of social dialogue

Decent Work as a central goal

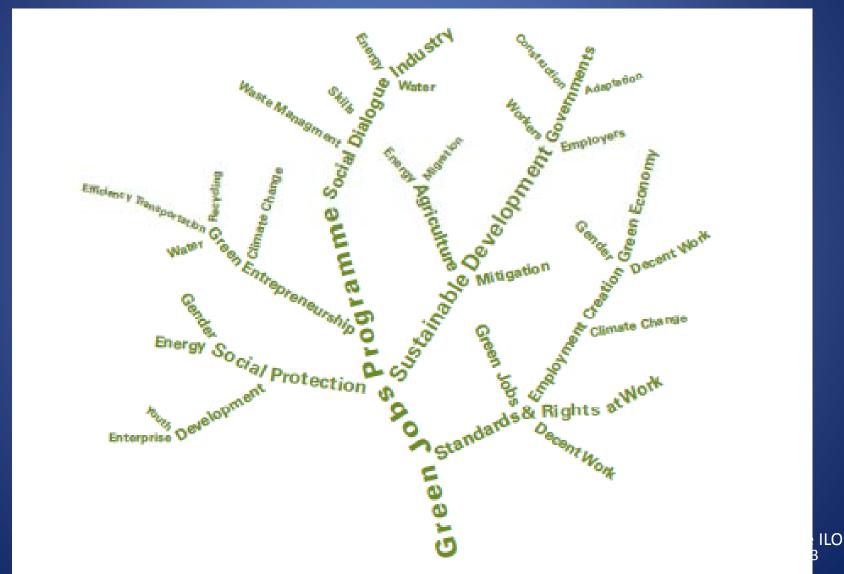
Towards a Centenary celebration in 2019

 Alignment with 2030 Development Agenda and SDGs (beyond 8)

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# Environmental sustainability a central theme and cross-cutting issue in Strategic Plan





# Rio+20: Green Economy, Sustainable Development and Poverty eradication

# The importance of inclusive green economies in setting the pathway to sustainable development

#### Triple benefit:

- 1. Environmental climate change resilience, low-emission development, stable natural environment and lasting biodiversity
- 2. Economic viable enterprises and sectors
- 3. Social decent work, poverty eradication, social inclusion



# Green Jobs provide the linking element to address the two key challenges

Social development



Environmental sustainability

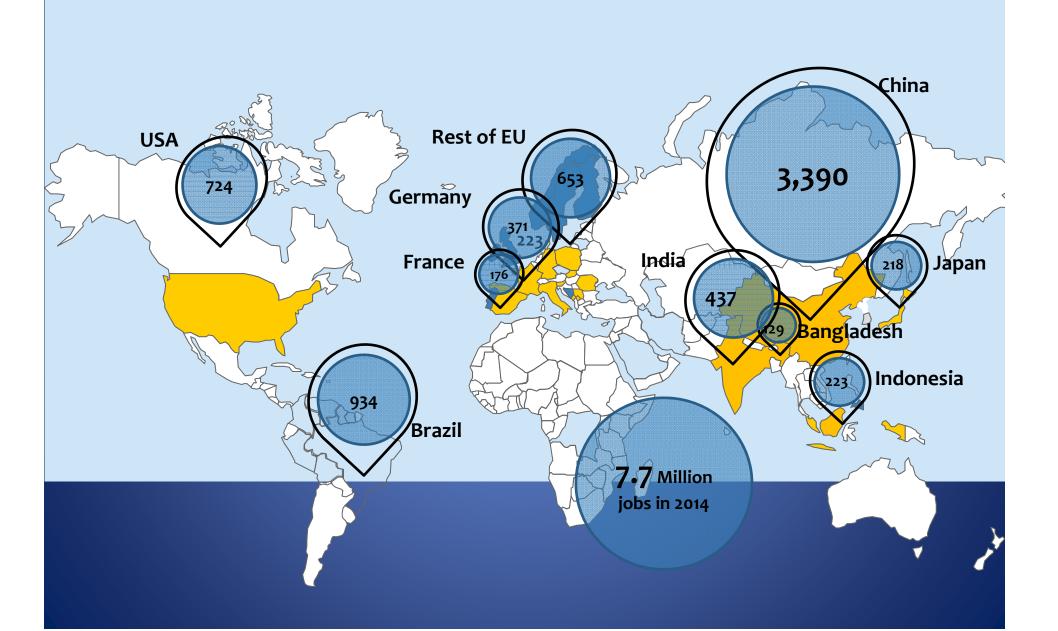


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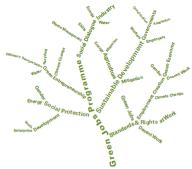
### Example: Jobs in Renewable Energy - now



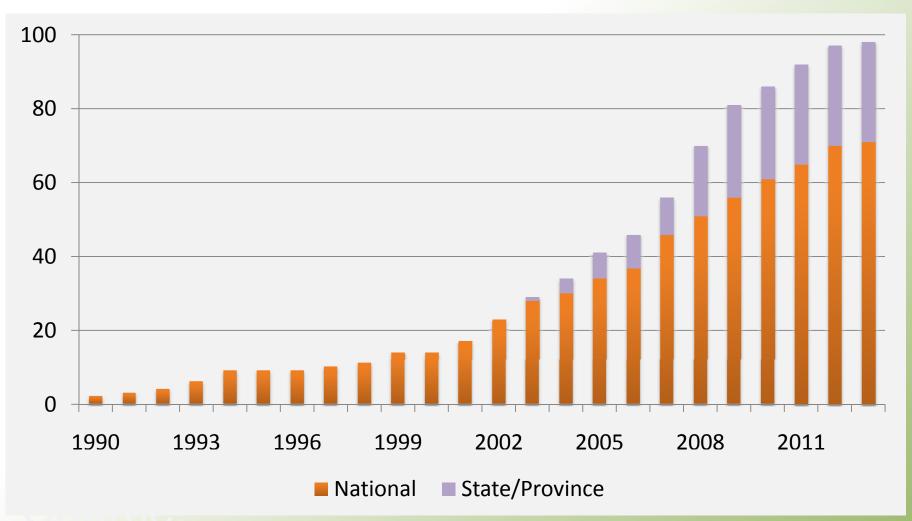


### Expected jobs in Renewable Energy - 2030





# Feed-in tariff policies for renewable energy (Trend world-wide 1990-2013)





### Good news – Bad news



"1.3 million workers in the coal industry and 500,000 in steel will be cut. The employees would be reallocated".

(Source: Bloomberg, 29 February 2016, quoting Minister Yin Weimin for Human Resources Development and Social Security)

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### **Employment transition**

EFFECT	EXAMPLE
New job creation	Renewable energy sector; energy performance service companies; mobility services
Elimination	Some types of mining Packaging (materials discouraged or banned)
Substitution	Shifting from fossil fuels to RE&EE, automobiles to mass transit, waste disposal to recycling, primary metals production to secondary production
Transformation	Existing jobs greened along with changed workplace practices and methods.  Supply-chain effects outside green (e.g. steel for wind turbines)  The Green Jobs Programme of the ILO



#### 2. What do we mean by Green Jobs?

Green jobs are decent jobs in any sector or occupation that:



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#### In practice:

**Process** 

**Product and services** 

**Nature conservation** 



- Reducing energy and resource intensity
- Eco-efficiency
- Reducing and recycling waste



- Organic agricultural products (certified)
- Green textiles (green labelling)
- Eco-tourism (certified)
- Green construction (certified)
- Green financing



- Ecosystem support
- Natural resource management



#### Green jobs are also decent jobs



Respect of the ILO International Labour Standards

#### **Creating jobs**

Equal opportunities, freely chosen, productive and gainful

#### **Extending social protection**

Decent salary, social protection coverage, occupational safety and health

#### **Promoting social dialogue**

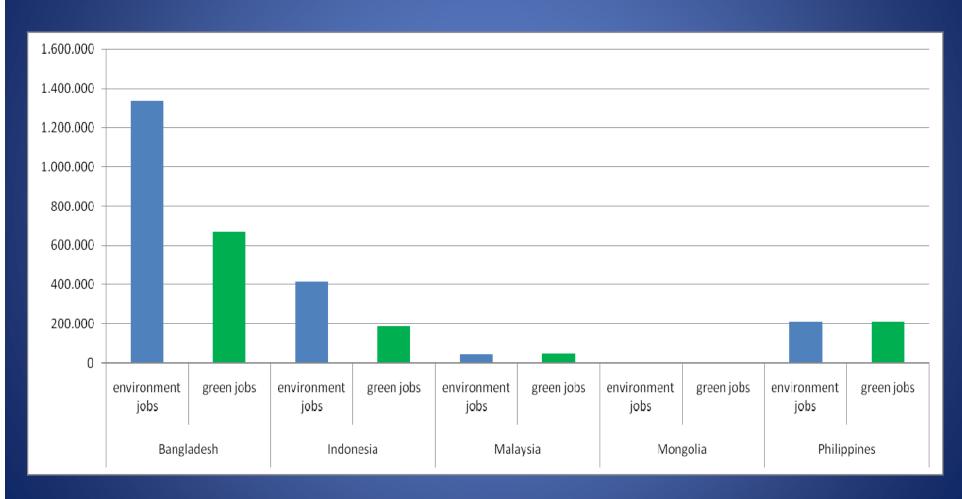
Freedom of association and collective bargaining

Gender equality

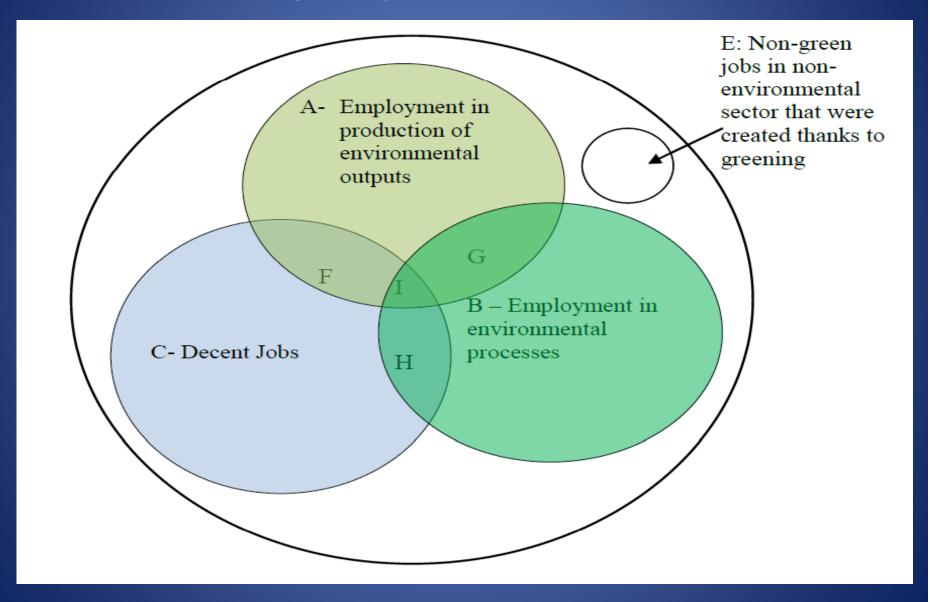
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# Green Jobs Mapping Green Building & Construction



# Schematic relationships between total employment, green jobs and decent







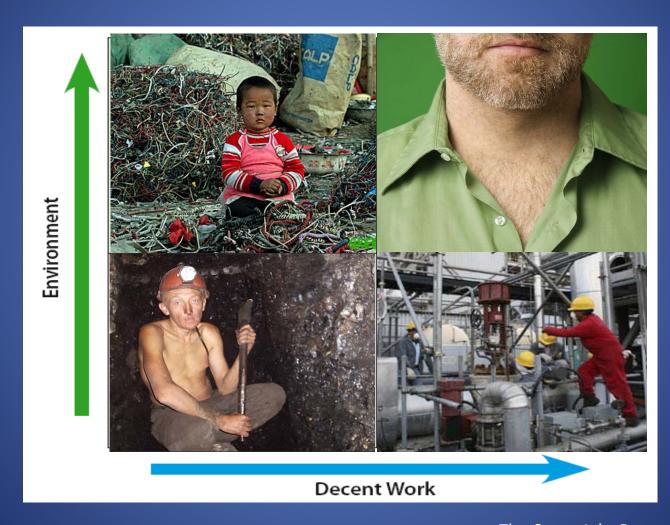




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### What are Green jobs?



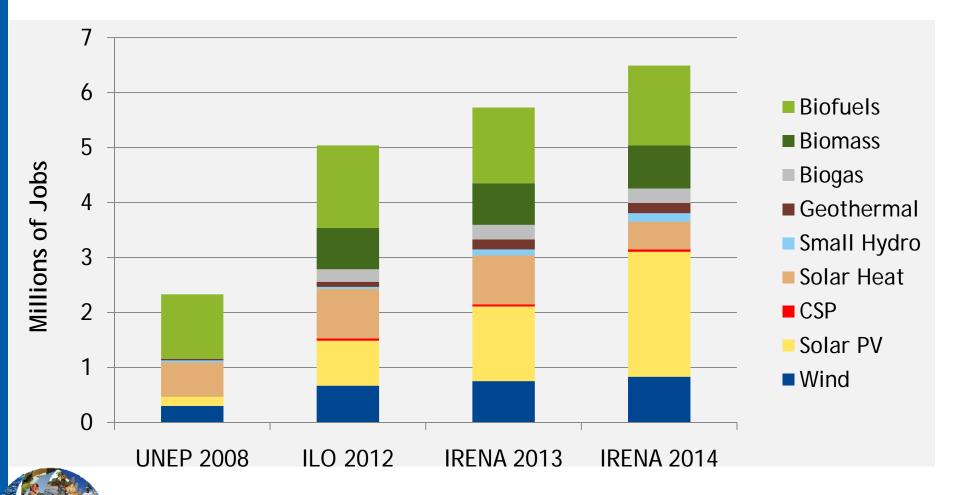
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### the potential for Green Jobs



https://www.youtube.com/watch?v=uPG PovluyQ&index=5&list=PL635910AB8F27F3A0

# Global Renewable Energy Employment Assessments, 2008-2014





# 4. What is ahead: aligning SDGs, sustainability and jobs



- Ensure universal access to affordable, reliable and modern energy services
- •Increase substantially the share of renewable energy in the global energy mix development

African manufacturing enterprises lose up to 20% of sales revenues due to power shortage, costing 2.1% of GDP on average, World Bank



Goal 12
Sustainable
consumption
and
production

•Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle

Resource intensive-economies will cost global productivity drops of 2.4 % by 2030 and 7.2% by 2050, while sustainable pathways increase total factor productivity, ILO

Goal 13 Climate change  Strengthen resilience and adaptive capacity to climaterelated hazards and natural disasters in all countries In the Asia Pacific region, the costs of climate change to the workforce due to both health care and lost wages is likely to be \$10 billion to \$20 billion per year by 2030, Lancet Commission

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### SDGs, sustainability and jobs

Goal 7 Energy • China: 4 million jobs in renewable energies today, 10 million in 2020



Goal 12
Sustainable
consumption
and
production

 Europe: 1 percentage increase in resource use efficiency leads to up to 200,000 new jobs

Goal 13 Climate change  South Africa EPWP created over 4 million work opportunities during 2009-2014, many in adaptation related sectors (water management, flood control

### The Green Centenary Initiative

Strengthening our ability

to act: tackling the challenges of the transition with new tools and approaches

Capacity building of ILO constituents and staff

Pilot application of the Just Transition Guidelines

Scaling up development cooperation programmes (social protection, skills, entrepreneurship, job creation and green work, labour migration, social dialogue)

.. using Green Jobs Packages Bolstering our capacity to lead: pushing the frontiers of **knowledge** 

Flagship report on climate change, decent work and just transition

Country assessments to understand the labour market impacts of NDCs

- as part of Just

Transition

partnerships and office-wide engagement

Strategic partnerships (ITUC, IOE, OECD, UN System)

Engagement in international processes on climate change

Office-wide engagement



### Internation Labour Conference on Green Jobs, 2013

- ☐ Common Vision "Achieving decent work, green jobs and sustainable development"
- ☐ **Guiding principles** for the greening of economies, enterprises and jobs, including the need for building strong social consensus on the goal and pathways to sustainability.
- ☐ The important role of **social dialogue** and respect, promotion and realization of **fundamental principles and rights at work**.

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### Tripartite Agreement

- "...transition to a greener economy could help reach many social goals over the next 20 to 30 years, including creating 15 to 60 million additional decent jobs"...**ILO**
- "Employers believe that proactively addressing higher energy efficiency and environmental issues of resource use...helps to enable long-term sustainable growth"...Employers
- "The transition has to create green and decent jobs and should not make workers the variable of adjustment. The world needs an ambitious transition towards environmental sustainability and workers want it to be a just transition"... Workers



# 2015 ILO Tripartite Expert Meeting: **Guidelines for a Just Transition**

- Anchor in COP21 Paris Agreement: "Recognizing the imperative of a just transition of the workforce and the creation of decent work and quality jobs in accordance with nationally defined development priorities"
- Building on ILC 2013 Conclusions
- Consensus among 8+8+8 experts, mix of countries;
- Founded on fact-based background Report
- With recommended practical follow up by Governments, Social Partners and ILO Office
- Provides a model of change to reach relevant SDGs
- Vehicle for « Green Centenary Initiative»



#### **Guidelines for a Just Transition for all**

1. Policy coherence and effective institutional arrangements

2. Social Dialogue

Macro/Sector

Macroeconomic

Industrial and sector

**Employment** 

**Enterprises** 

Skills

Labour market

Social Protection

Occupational safety and health

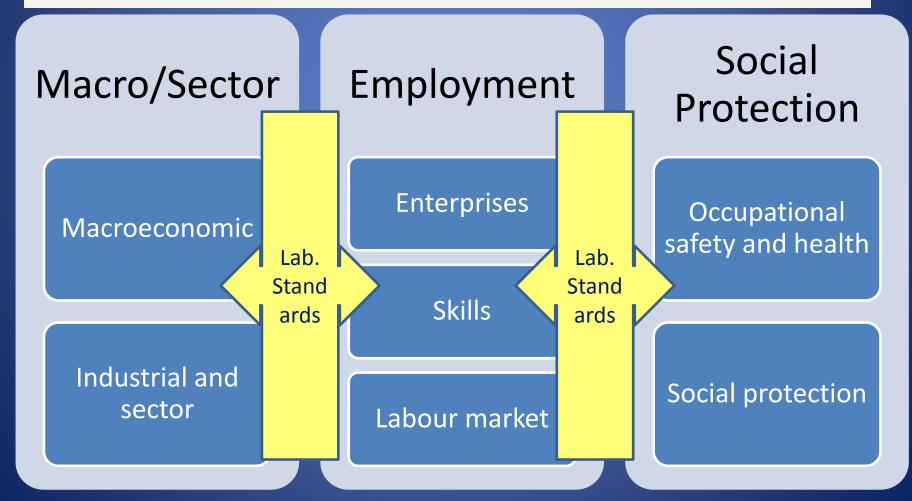
Social protection



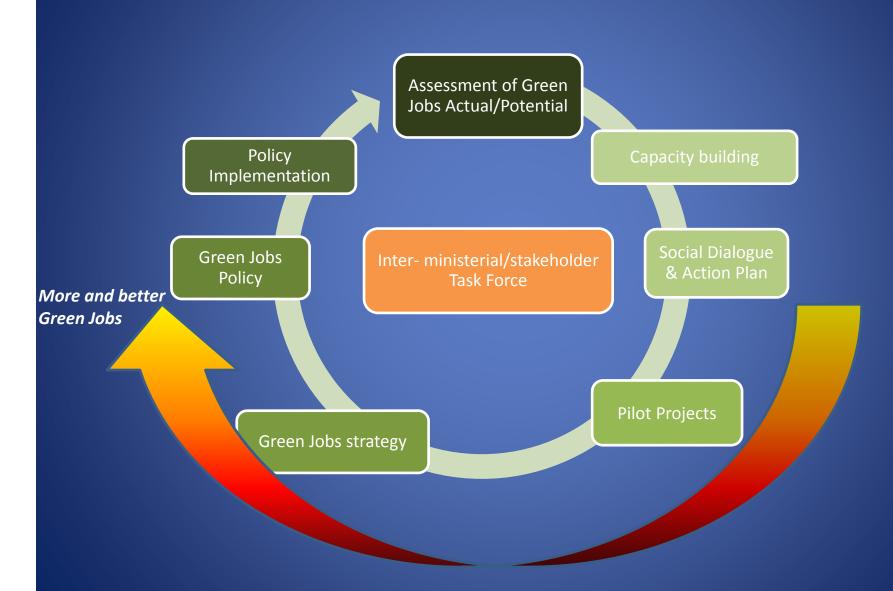
#### **Guidelines for a Just Transition for all**

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### **Just Transition Program Cycle**



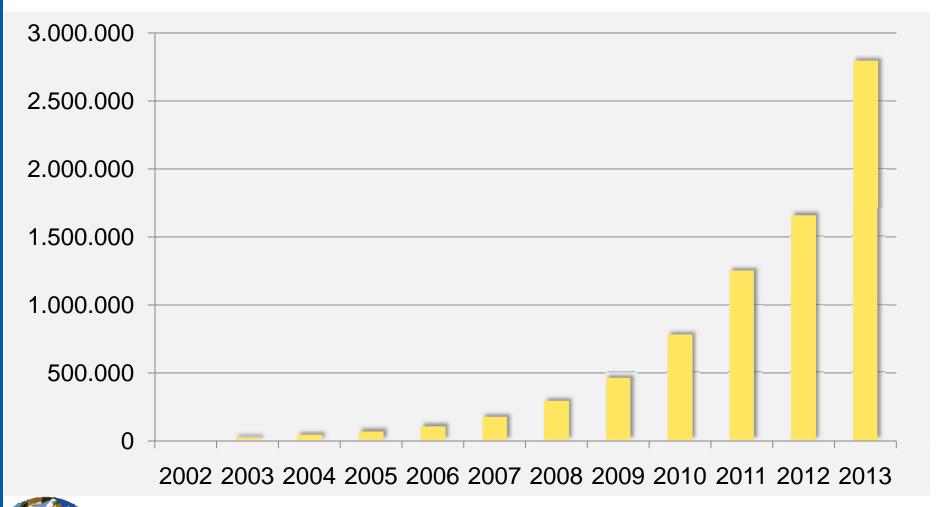
# Skills development is key to facilitate a just transition

#### **Bangladesh SHS**

Bringing green energy and green jobs to Bangladesh <a href="http://www.youtube.com/watch?v=uPG\_PovluyQ&index=4&list=PL635910AB8F27F3A0">http://www.youtube.com/watch?v=uPG\_PovluyQ&index=4&list=PL635910AB8F27F3A0</a>



### Bangladesh—SHS Installations, 2002-2013



Sources: IDCOL, Barua Installations of 80,000 SHS per month

### Occupations in Solar Power

Equipment Manufacturing	Utility-scale Plants:			Residential, Commercial PV
	Project Development	Construction and Installation	Operations and Maintenance	Sales, Installations, Maintenance
<ul> <li>Engineers (chemical, electrical, mechanical)</li> <li>Technicians</li> <li>Semiconductor processors</li> <li>Machine-tool operators</li> <li>Welders, Solderers &amp; Brazers</li> <li>Coating &amp; painting workers</li> <li>Glaziers</li> <li>Electrical &amp; electronic assemblers</li> </ul>	<ul> <li>Project managers</li> <li>Atmospheric scientists and meteorologists</li> <li>Land acquisition / development specialists</li> <li>Permitting specialists</li> <li>Land surveyors</li> </ul>	<ul> <li>Project managers</li> <li>Civil engineers</li> <li>Construction workers</li> <li>Welders, iron &amp; steel workers</li> <li>Pipefitters (CSP)</li> <li>Electricians</li> </ul>	<ul> <li>Plant Managers</li> <li>Power plant operators</li> <li>Electricians</li> <li>Electrical engineers</li> <li>Pump operators (CSP only)</li> <li>Plumbers, pipefitters &amp; steamfitters (CSP)</li> </ul>	Wholesalers     Retailers     Site assessors     Architects     Roofers     Electricians



#### All videos

Renewable in action - Country illustration
Solar water pumping in the state of Karnataka, India
<a href="http://www.youtube.com/watch?v=SDOq3BIZMj8">http://www.youtube.com/watch?v=SDOq3BIZMj8</a>

Clean energy entrepreneurs powering rural areas

East Africa (Kenya and Uganda) solar lighting and biogas technologies

Promoting green entrepreneurship in East Africa

<a href="https://www.youtube.com/watch?v=M-">https://www.youtube.com/watch?v=M-</a>

EDC7urqx0&list=PL635910AB8F27F3A0&index=3

Skills for renewable energy jobs - Bangladesh SHS
Bringing green energy and green jobs to Bangladesh
<a href="http://www.youtube.com/watch?v=uPG\_PovluyQ&index=4&list=PL635910A">http://www.youtube.com/watch?v=uPG\_PovluyQ&index=4&list=PL635910A</a>
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#### Resources on line

• ILO Green Jobs Programme:

www.ilo.org/greenjobs

Green Jobs Training Platform:

http://greenjobs.itcilo.org