

Working on a warmer planet

The impact of heat stress on labour productivity and decent work

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Dialogue: Heat in the Workplace 2020

29 July

www.ilo.org/weso-greening

Heat is an occupational safety and health hazard



- Heat stress occurs when it is too hot to work
- Heat stress increases workers' occupational risks and vulnerability
- Occupations that involve more physical effort or take place outdoors are more at risk
- The **Urban heat islands** effects will further intensify the impacts of heatwaves
- Heat stress will become more common and will impede progress towards decent work and social justice

Heat stress will lead to an equivalent stress will lead to an equivalent of 80 million full-time jobs

Percentage of working hours lost due to heat stress under a 1.5°C scenario, 2030



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Source: ILO (2019) "Working on a warmer planet: The effect of heat stress on productivity and decent work". Estimates based on ILOSTAT and the HadGEM2 and GFDL-ESM2M climate models (RCP2.6 climate change pathway, which envisages a global average temperature rise of 1.5°C by the end of the century).

Agricultural and construction workers

100% 75% 50% 25% 0% Central Africa Western Africa Southern Asia Northern Africa Eastern Asia Eastern Europe Arab States Construction (Shade) Industry Services Agriculture (Shade)

Working hours lost to heat stress by sector, projections for 2030

Source: ILO (2019) "Working on a warmer planet: The effect of heat stress on productivity and decent work". Estimates based on ILOSTAT and the HadGEM2 and GFDL-ESM2M climate models (RCP2.6 climate change pathway, which envisages a global average temperature rise of 1.5°C by the end of the century).

and also for least developed and developing countries



• Percentage of working hours lost due to heat stress, 10 most affected countries, 1995 and 2030 (projections)



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Heat stress is more prevalent in countries with decent work deficits

- Heat stress concentrates in regions with existing decent work deficit (i.e. vulnerable employment, working poverty, informality, limited social security coverage)
- Heat stress can exacerbate inequality
- Heat stress is a driver of migration

Heat stress is more prevalent in countries with decent work deficits

Correlation between labour productivity loss due to heat stress and social security coverage



Governments, employers and worker internat are the drivers of change

International Labour Standards

Occupational Safety and Health Convention No. 155, Recommendation No. 164; Hygiene Convention No. 120, the Protection of Workers' Health Recommendation No. 97.

• Measures taken by governments, employers, and workers:

ILO 2015 Guidelines for a Just Transition: "Governments, in consultation with social partners, should: (a) conduct assessments of increased or new OSH risks resulting from climate change, resource scarcity or other risks related to human health and the environment, and identify adequate prevention and protection measures to seek to ensure occupational safety and health"

Governments, employers and worker by International are the drivers of change

Measures taken by governments, employers, and workers:

- Better national policies to address heat stress risks and protect workers, including adequate infrastructure and improved early warning systems for heat events
- Employers can provide drinking water, and training on recognizing and managing heat stress
- Social dialogue: Social dialogue can play a crucial role in reaching consensus on indoor and outdoor working methods, adapted working hours, dress codes and equipment, shade and rest breaks
- Mitigation efforts to reduce heat-related hazards