

Netherlands



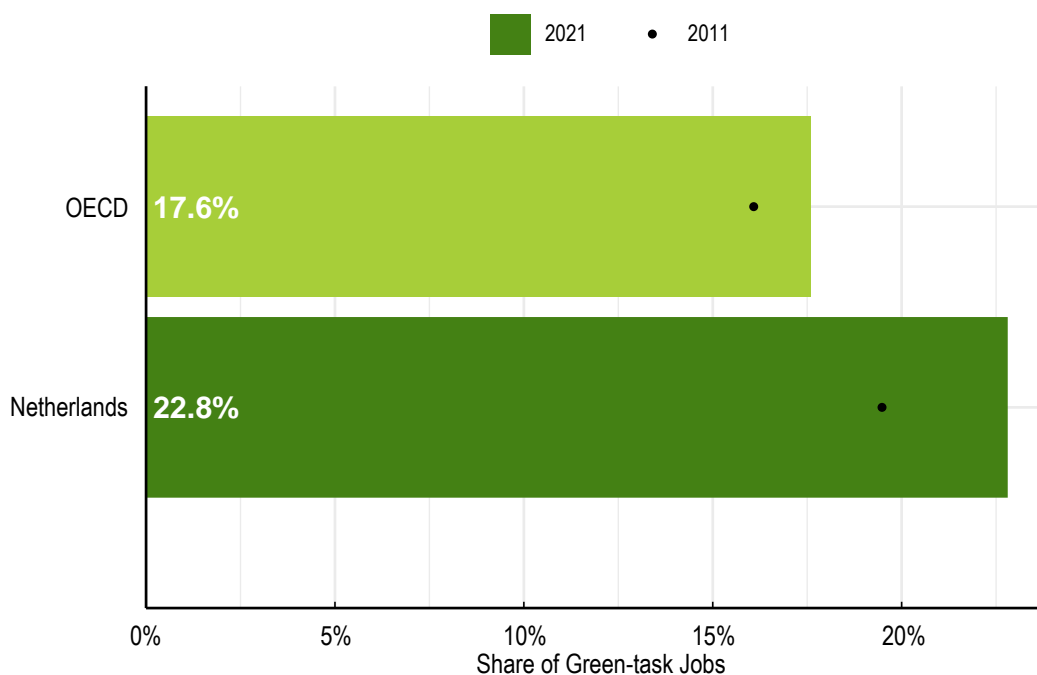
The report [Job Creation and Local Economic Development 2023: Bridging the Great Green Divide](#) assesses the local labour market impact of the green transition. It presents novel evidence on the share of jobs with a significant proportion of green tasks (green-task jobs) as well as polluting jobs, those which face a higher risk of disappearing, across regions within countries. Furthermore, it analyses current socio-economic and gender implications of the green transition within local labour markets. The report covers all OECD countries for which detailed data on employment by occupation is available.

How green are regional labour markets in the Netherlands?

Regional employment in green-task jobs

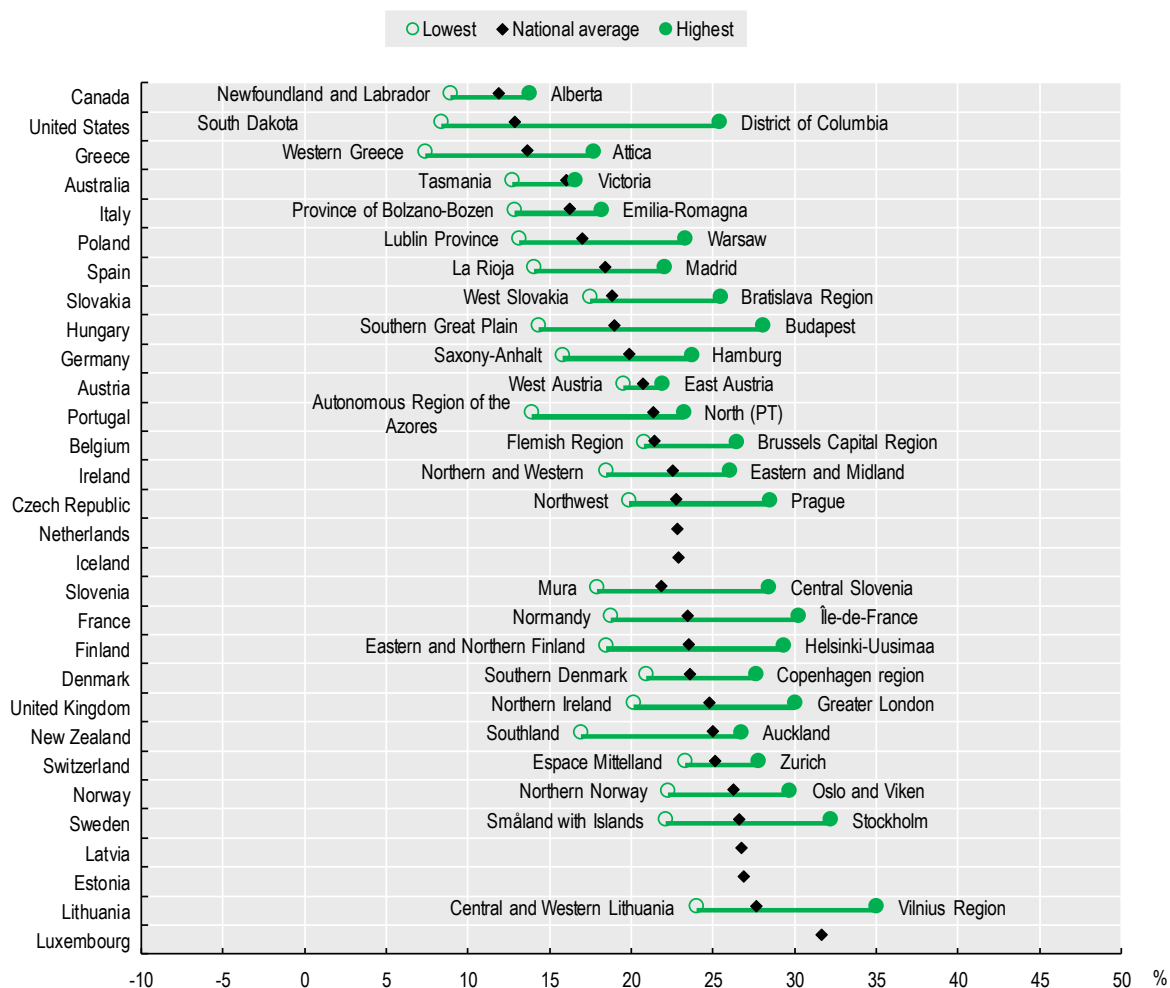
In the Netherlands, on average around 22.8% of workers are employed in jobs with a significant share of green tasks that contribute to environmental objectives. This is 5.2 percentage points more green than the OECD average of 17.6%.

Figure 1 Green-task jobs in TL-2 regions (2011 - 2021)



Note: See annex for examples of green tasks and occupations.
Source: OECD calculations based on EU LFS.

Figure 2 Regional values for the share of green jobs



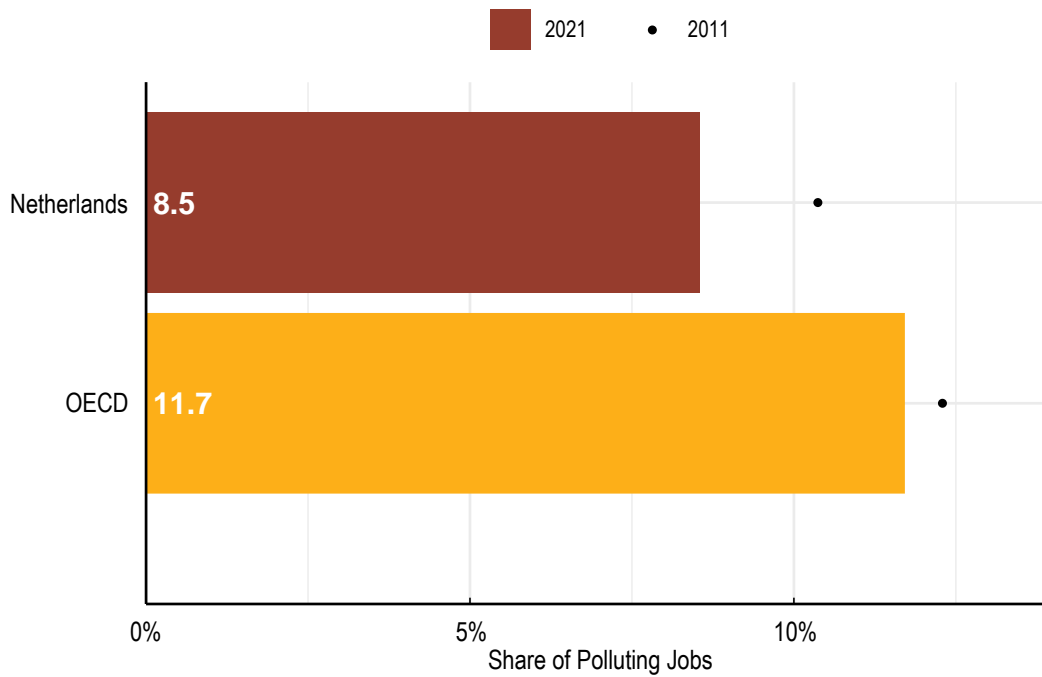
Note: Last available year. 2019 for the UK. 2020 for Iceland. 2021 for Australia, Canada, EU countries, Norway, New Zealand, Switzerland, and the US. See annex for examples of green tasks and occupations.

Source: OECD calculations based on EU LFS, Canadian LFS (StatCan), OEWS (U.S Bureau of Labour Statistics), Table EQ08 (Australian Bureau of Statistics), HLFS (Stats NZ), Slovenian LFS (Statistical Office of the Republic of Slovenia) and Polish LFS (Statistics Poland).

Polluting jobs

Polluting jobs in emission intensive sectors, such as mining or oil and gas, are heavily concentrated in some regions, raising the risk of those regions being left behind in the green transition. In the Netherlands, on average around 8.5% of workers are employed in polluting jobs that will face a greater risk of displacement due to the green transition, compared to 11.7% on average in OECD countries.

Figure 3 Polluting jobs in TL-2 regions (2011 - 2021)

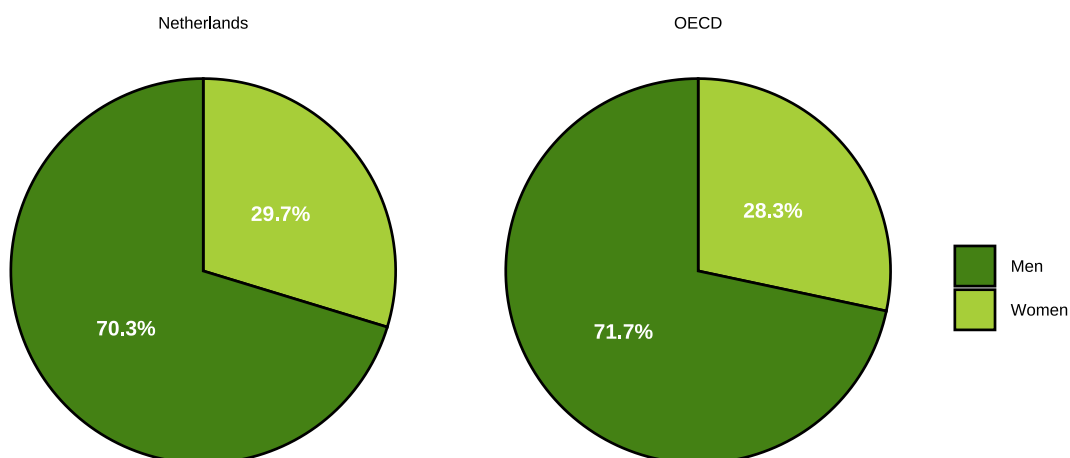


Note: See annex for further details on polluting occupations
 Source: OECD calculations based on EU LFS.

Green-task jobs: a new gender divide

Women are drastically underrepresented in green jobs. On average, women account for less than third (28.3%) of workers in green-task jobs across the OECD. In the Netherlands, women make up a higher share, accounting for 29.7% of workers in green-task jobs.

Figure 4 Share of women in green jobs



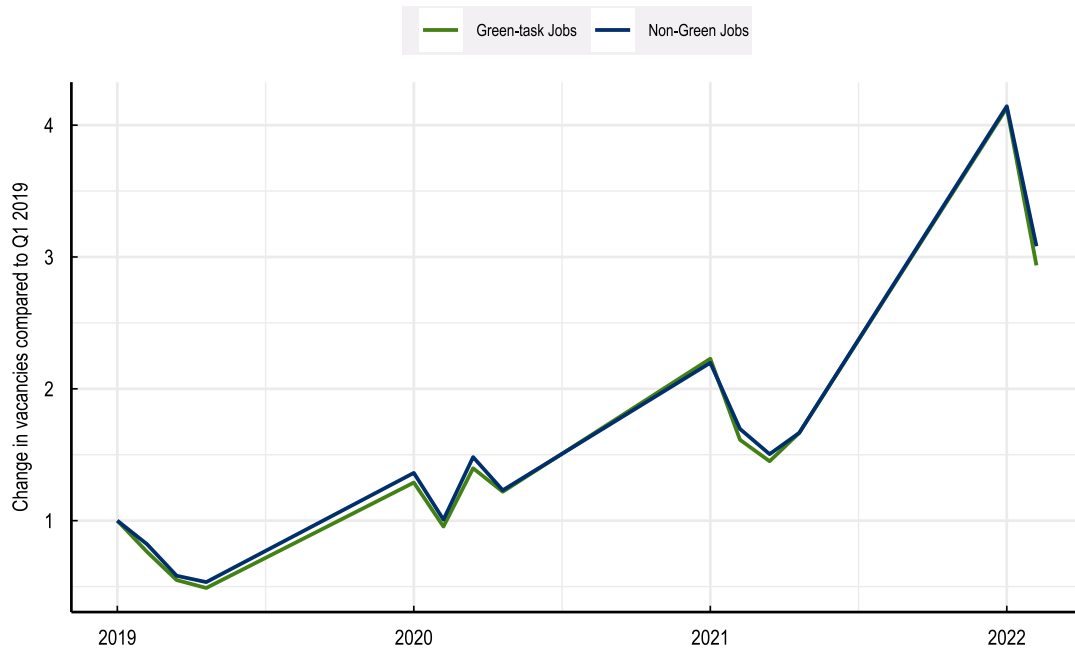
Note: Data for 2021. See annex for examples of green tasks and occupations.
Source: OECD calculations based on EU LFS.

Current labour market demand for green-task jobs

Speeding up the slow pace of growth in green jobs is critical to reach net zero. While most local labour markets have not become much greener over the last decade, since the start of the pandemic growth in the demand for green-task jobs has outpaced overall labour market demand by 20% across the OECD.

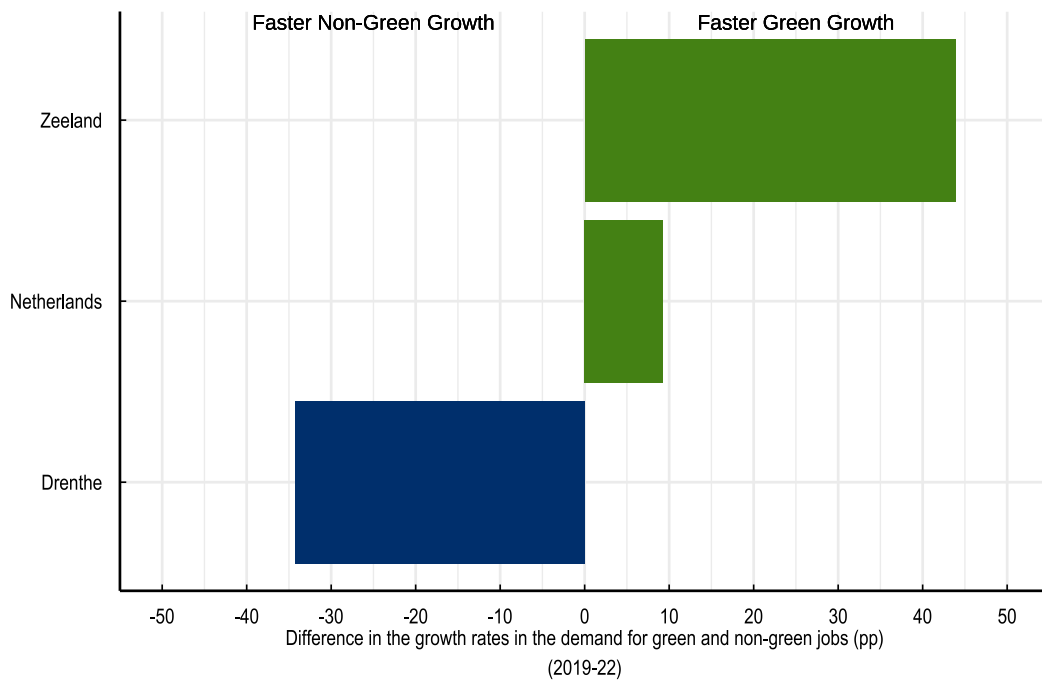
As the OECD overall, the Netherlands has also experienced faster growth in the demand for green jobs than for non-green jobs. On average, the demand for green jobs grew by 9.3% more between Q1 2019 and Q1 2022. In the Netherlands, the relative growth in the demand for green jobs was highest in Zeeland (43.9%) and lowest in Drenthe (-34.3%).

Figure 5 Online job posting over time, compared to base year (2019)



Source: OECD calculations based on Lightcast job posting data.

Figure 6 Relative growth of green and non-green online job postings



Source: OECD calculations based on Lightcast job posting data.

Annex - Measuring the share of green-task and polluting jobs

Green tasks and green jobs

Green-task jobs are defined and analysed at the occupation level based on the greenness of their related task content. It relies on classifications developed by O*NET, which provides a taxonomy of the greenness of all tasks for more than 900 occupations. Tasks identified as green contribute to environmental objectives such as preserving the environment and reducing emissions.

Using the information on the tasks of an occupation, one can compute a greenness score for each occupation, ranging from 0 to 1. A score of 0 denotes an occupation with no green task. Infographic 2.1 offers a number of illustrating examples of different occupations, including those with a very high greenness score, those with some green tasks, and those with no green tasks. Based on O*NET's classification, the majority of jobs have no green task. Occupations with no green tasks in O*NET's classification are not necessarily 'dirty', as illustrated by examples below.










		Proportion of green tasks		
		Green	Partially green	Non-green
Level of education	High-skilled	Solar Energy Systems Engineers <ul style="list-style-type: none"> - Engineering analysis or evaluation of energy efficiency and solar projects - Design solar domestic heating systems 	Civil Engineers <ul style="list-style-type: none"> - Designing construction and maintenance of building structures - Overseeing facilities such as roads, railroads or airports 	Accountants <ul style="list-style-type: none"> - Determine or maintain record of assets, liabilities, profit and loss, tax liability or financial services of an organisation - Analyse financial information and prepare financial reports 
	Medium-skilled	Wind Energy Project Managers <ul style="list-style-type: none"> - Manage construction of projects - Lead or manage the development and evaluation of potential wind energy business opportunities 	Transportation Vehicle, Equipment and Systems Inspectors <ul style="list-style-type: none"> - Inspect and monitor transportation equipment, vehicles, or systems ensure compliance with regulations and safety standards 	Sales Managers <ul style="list-style-type: none"> - Plan, direct, or coordinate the distribution or movement of a product or service to the customer - Analyse sales statistics gathered by staff to determine sales potential and inventory 
	Low-skilled	Refuse and Recyclable Material Collectors <ul style="list-style-type: none"> - Collect and dump refuse or recycle materials into truck - Drive truck 	Plumbers <ul style="list-style-type: none"> - Assemble, instal, or repairs pipes, fitting, or fixtures of heating, water, or drainage systems - Follow plumbing codes and other specifications 	Helpers – Extraction Workers <ul style="list-style-type: none"> - Help extraction craft workers, such as earth drillers or blasters, by performing duties requiring less skill - Duties include supplying equipment or cleaning work area 

Figure 7: Occupation and task examples

Note: The greenness of occupations is based on their task content and the fact whether those tasks are green or not. The greenness score of occupation ranges from 1 (all tasks are green) to 0 (all tasks are non-green). The classification of high-, medium-, and low-skilled occupations follows ISCO.

Source: OECD elaboration based on O*NET's Green Tasks Data.

Green-task jobs

To examine the geography of jobs with a significant share of green tasks and to examine differences across workers within regional labour markets, a binary measure is constructed which classifies an occupation as being green-task or non-green-task. For this report, green-task jobs consist of those occupations with at least 10% of their tasks considered green.

Polluting jobs

Polluting jobs are a subset of non-green-task jobs (i.e. they have no green tasks) that are particularly concentrated in highly polluting sectors, based on the emission of seven contaminants: CO, VOC, NOx, SO2, Pm10, PM2.5, lead and CO2.

References

OECD (2023), Job Creation and Local Development 2023 – Bridging the Great Green Divide:
<https://doi.org/10.1787/21db61c1-en>

Source of administrative boundaries: © OECD, © EuroGeographics, National Statistical Offices, © UN-FAO Global Administrative Unit Layers (GAUL)