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MACROECONOMICS FOR A GREENER ECONOMY

DECARBONIZATION AND ENERGY TRANSITION: A CASE FOR NEPALI MIGRANTS

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Climate change presents Nepal with a double-edged problem. The country stands to be disproportionately impacted by the effects of rising temperatures, such as melting glaciers and increased weather variability. Renewed global momentum surrounding the Paris Climate Accord may be Nepal's best chance at limiting the worst effects of climate change. However, an international push to decarbonize energy markets may also have consequences for Nepal's fiscal stability.

The fiscal stability is underwritten by remittances from labor migrants, which have long been an important source of supplemental income for Nepali families. Nearly 56% of the total households in Nepal are direct beneficiaries of cross-border remittance.128 These inflows are also crucial to the functioning of the economy at large, contributing 63.6% to the nation's foreign reserves in Fiscal Year (FY) '20.129 According to the World Bank, the Gross Domestic Product (GDP) could drop 3% for every 10% decline in remittances. 130

Fueled by hydrocarbon resources, the rentier economies of the Gulf Cooperation Council (GCC) in the Arabian Peninsula have grown to become the largest employers of Nepal's expatriates, accounting for over three-fourths of the country's migrant

workers.¹³¹ This concentration of labor ties Nepal's economy to the fortunes of the Gulf region, leaving it exposed to the booms and busts of oil and gas markets. In recent years, structural shifts in the hydrocarbon sector have given rise to a number of gloomy economic forecasts for GCC countries, which are expected to have long term implications for Nepal.

In recent years, falling oil prices have curtailed Nepali migration to the Arabian Gulf. An oil price crash in 2014 led to a sharp drop in remittances from GCC countries to developing countries. At the same time, global remittances from oil producing countries fell markedly too. It is thought that millions of foreign laborers in the Gulf were impacted, 132 and while remittance flow to Nepal has officially increased, this could be due to migrants' increased use of formal channels.133

Increasing the Nationally Determined Contributions (NDCs) of the Paris Climate Accords, through which countries pledge to decarbonize their energy mix, could accelerate economic decline in the Arabian Gulf. This is foreshadowed by the fact that some of the GCC's largest oil importers have set ambitious climate targets. At the Leaders' Summit on Climate in April 2021, the United States (US) president, Joe Biden, announced a

new goal of halving greenhouse gas emissions by 2030.134 In the US, petroleum imports from the Gulf have already fallen by a staggering 13.46% over a span of two decades. 135 Likewise, China's plans136 to reach carbon neutrality and become a "global powerhouse of electrification" by 2030 will mean a move away from fuel dependency, creating significant economic shock waves in the global energy trade.137

According to the consulting giant McKenzie, capping the temperature rise at 1.5 degrees Celsius, i.e., keeping global temperature below 2 degrees Celsius above pre-industrial levels, could cut demand for oil 70% by 2050.138 This would mean oil demand could peak as early as 2023. Other estimates have placed peak oil demand in 2029¹³⁹ or 2040.¹⁴⁰ The United Nations points out that current NDCs are insufficient in limiting warming as set by the Accords,141 with at least a 66% chance of achieving the carbon target.142 But a range of additional factors stand to place downward pressure on hydrocarbon markets. Expanded production capacity from deposits in North America, China's growing interest in shale investments, the falling cost of renewables and increased energy efficiency also pose risks to Gulf economies.143 Given these substantial challenges, the



International Monetary Fund has recently warned that GCC countries could deplete their reserves as early as 2034 without substantial reforms.¹⁴⁴

In a region where the oil sector accounts for 70% of total revenues, governments are keen to diversify their income streams. The GCC countries have put forward plans to transition away from oil dependency, foster robust small and medium enterprises' growth, and to create digital-age knowledge economies; however, they share common hindrances. These include overregulated private sectors dependent on government funding to petrodollars, clientelism, tied a poorly educated labor and force accustomed to public sector employment.145

So far, efforts to diversify GCC economies have been slow to materialize in practice. Nader Kabbani and Nejla Ben Mimoune of the left-leaning think tank, The Brookings Institute, write that Gulf states "have been more apt to pursue

partial reforms that provide the illusion of economic diversification but, in reality, continue to rely to a large extent on revenues from oil and gas."¹⁴⁶

Diversification initiatives are likely to see some success, and oil and natural gas will continue to play a role in the energy mix of many large countries. These realities can help cushion potential declines in Nepali remittances. The United Arab Emirates (UAE), which accounts for the largest share of Nepali migrants, is far less exposed to hydrocarbon market declines than its neighbors, with 35% of its budget financed by the oil industry. 147 Yet in Saudi Arabia, the GCC's second largest employer of Nepalis, where the oil sector accounts for 87% of the budget, ambitious plans for private sector growth have been slow to materialize.148

These struggles and the long-term trajectory of oil demand, indicate that Nepal's remittance base from the Gulf could be set to shrink.

Climate change has real consequences for Nepal, and a move towards decarbonization should be welcomed. In the short- and medium-term, economic diversification initiatives in the GCC may help offset employment losses from the decline of the hydrocarbon sector. However, Nepal should manage the challenges that the global energy transition is set to bring to its remittancedependent economy. In the long run, an exodus of low-skilled and semiskilled migrants from the Gulf will leave Nepal with two policy options: one, upskilling through better use of its existing programs such as the Council for Technical Education and Vocational Training, and two, planning a roadmap to strategically absorb returnee migrants into its domestic labor force by creating robust economic growth. While the former will enable migrants to better adapt to changing global skill demand, the latter will help channel returnee migrants to productive sectors.

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