

The United Arab Emirates (UAE) faces a variety of challenging environmental conditions, particularly during the summer months. This includes the use of coiled tubing applications in high-pressure sour environments and horizontal unconventional tight gas wells. In urban areas, the significance of greenery in reducing surplus heat and creating balanced microclimatic conditions has been illustrated. Furthermore, the UAE's desert climate significantly impacts the performance of solar photovoltaic (PV) systems. A detailed engineering approach enabled overcoming challenges presented by the extreme conditions of the UAE, prioritizing personnel safety and well-being. In thermally stressful conditions such as those found in the UAE during the summer, structured breaks are not sufficient to prevent heat-related illnesses. Sources Scholar Regenerate