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Threatening of climate change on water resources and supply: case study of northwest China

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The water shortage problem in the semi-arid and arid areas, e.g. Northwest China is getting worse due to climate change. Observations show that the runoff of the major rivers is decreasing dramatically especially in the lower reaches where water is highly demanded. Most noticeable are the dry-outs of the Yellow River, the so-called 'mother river of China'. Water scarcity would be the most front challenge for the society and economy in China, especially the urban area with extremely high population density. The government already paid attention to the deepening of the underground water level at Beijing. Sustainable water resource management should the top priority for the local community to adapt to climate change. Studies show that human activities heavily impact on the local climate and environment in China and a dramatics amount of clean water is wasted or polluted. Integrated water management and sanitation project should be recommended in no time.