عنوان فارسی مقاله:
تغییر الگوی برنامه ریزی افزایش ذخیره آب از طریق شبکه های تکمیل یافته، قیمت گذاری کمیابی و آب انطباقی کارخانه: یک روش دینامیک سیستم

عنوان انگلیسی مقاله:
Paradigm shift to enhanced water supply planning through augmented grids, scarcity pricing and adaptive factory water: A system dynamics approach

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
6. Conclusions

This paper detailed the development of an SDM developed to explore the behaviour of the SEQ water resource system over the next 100 years under systemic change brought about by climate change and population growth. The current supply-side oriented approach to water governance was found to be ill-equipped to cope with these changes, leading to economic hardship and chronic water shortages.

Reorganisation of the system through new water governance practices were proposed and simulated. These included: (a) increasing supply with rain-independent sources; (b) managing demand by introducing availability based pricing; and (c) enhancing asset management decisions. The model demonstrated that by properly pricing water scarcity through TDP it is a considerably more effective strategy for reducing demand while simultaneously generating the additional revenues necessary to fund essential bulk supply infrastructure. The study indicates that as the supply portfolio includes greater proportions of rain-independent supply sources such as desalination plants, the requirement for implementing the TDP regime diminishes since there is less reliability on inflow to dams and groundwater.