

Excellence in water engineering
The RSA- Electronics Company, Iran

Iran is progressively moving towards a higher level of self-sufficiency in water resources.

RSA Electronics Project: **A smart management tool for groundwater resources: the case of Northern Khorasan, Iran** is the Honor Awards for the Small Projects Category of the 2014 IWA Europe & West Asia Regional Project Innovation Awards.

This honor award recognizes excellence and innovation in the conception and results of water engineering projects. RSA- electronics and the water utility of Northern Khorasan are honored for its novel technology and processes that incorporate new thinking, leading to significant improvements in management of groundwater resources. This project is aimed at decreasing the environmental hazards by monitoring and management of groundwater resources via smart energy and water meter. (SEWM)

Northern Khorasan is the case study in Iran. The project implemented at this province completely and all of the wells equipped with smart energy and water meter.

With making use of this innovative solution, in about 90% of water wells' electro-pump's power are cut in non-irrigation seasons for three months or more; in this case, yearly water level drop of groundwater has decreased from 75 cm to 6 cm; it means the volume of over-pumping has declined from 30 million cubic meters to 10 million cubic meters per year. In other words an amount of 20 million cubic meters is saved. Also Beneficiaries are biased toward increasing the efficiency of water use (irrigation methods, etc.). This project which aimed at preventing groundwater over pumping by a smart tool is novel in the world.