

مؤتمر تحلية المياه في الدول العربية

19-18 شعبان 1440 | 23-24 ابریل 2019

فندق انتركونتيننتال سيتي ستارز، القاهرة، جمهورية مصر العربية

The Economics of Sustainability: the only way forward also for the desalination and water industr

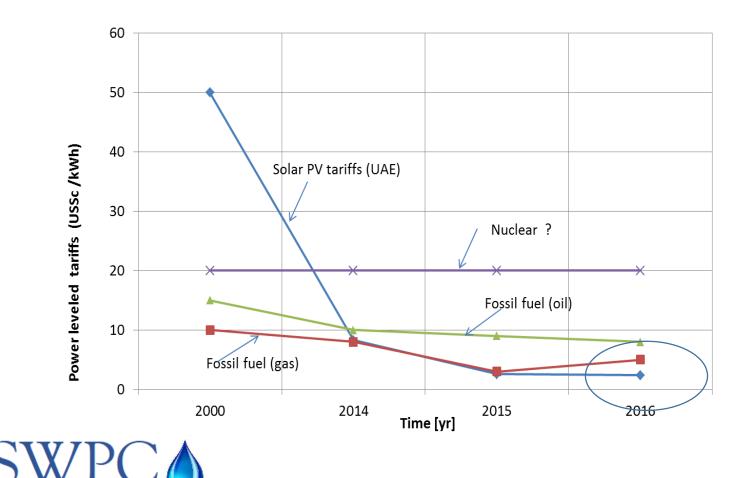
Dr. Corrado Sommariva



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CEO SWPC President IDA 2012-2015

Changing technology scenarios



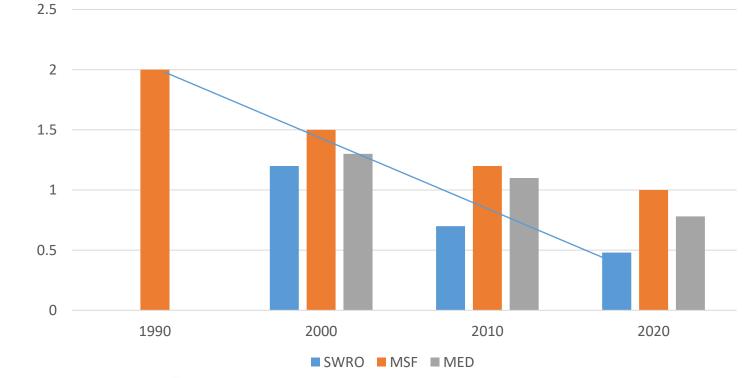
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A technical solution that would appear more convenient initially may become financially disadvantageous or perhaps even non sustainable in the long run compared to a technology initially perhaps more expensive but definitely more efficient (indicated in the graph as the red line).

ARWADEX - 2

Changing technology scenarios

Water price versus technology [US\$/m³]



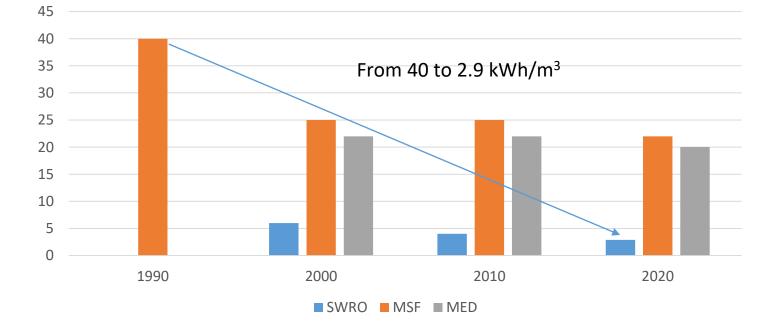
The same applies to the water industry. What happened between March to October 2018 changed forever the water industry



ARWADEX - 3

Changing technology scenarios

Specific Energy consumption trend[US\$/m³]



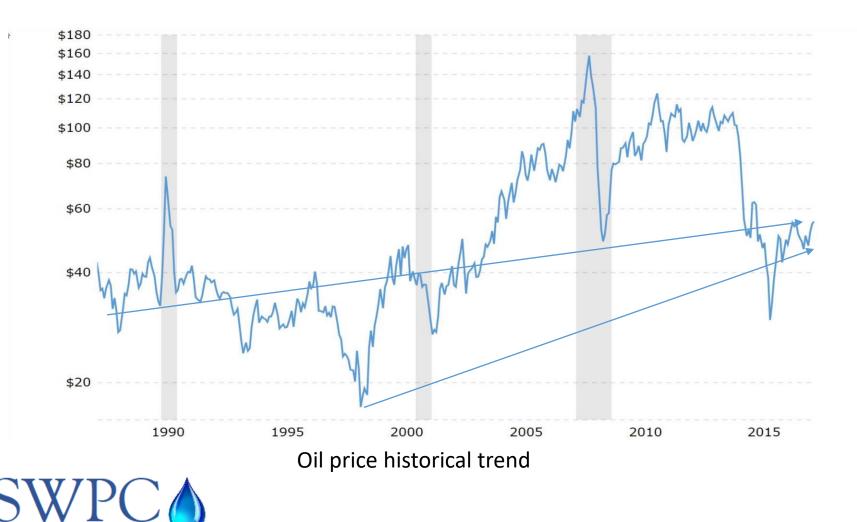
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ARWADEX - 4

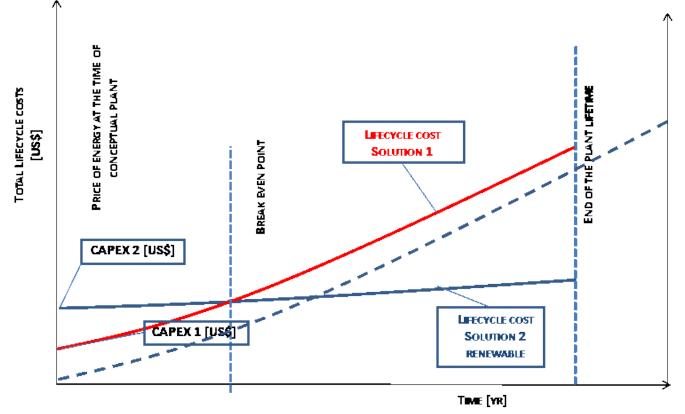
Energy price changing trends

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There may be seasonal fluctuations but price of non renewable resources will unavoidably tend to increase

New P&L scenarios as energy costs varies



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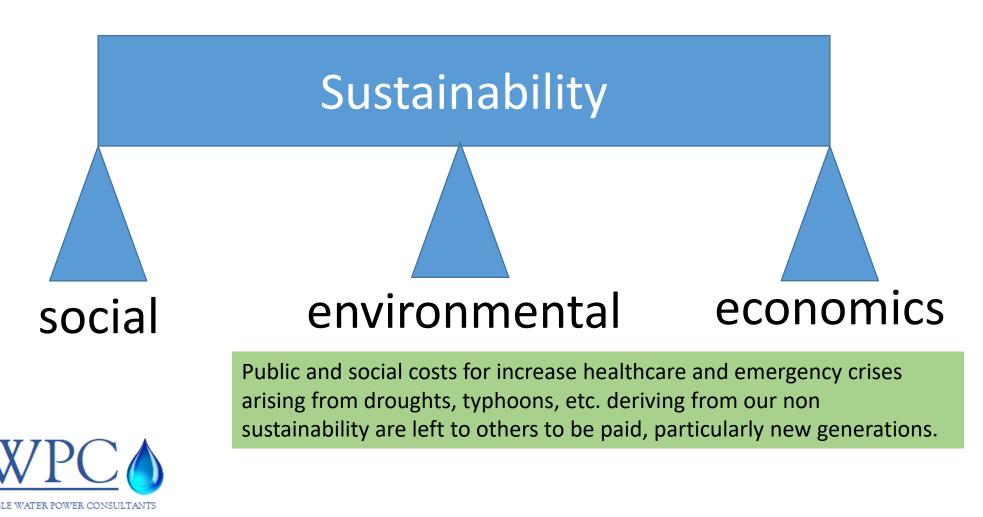
Therefore what may look as a cheaper solution (red line) at the beginning may end up being an extremely expensive one at the end of its lifecycle compared to a initially more efficient and more sustainable one (blue line)

OF ENERGY [US\$]

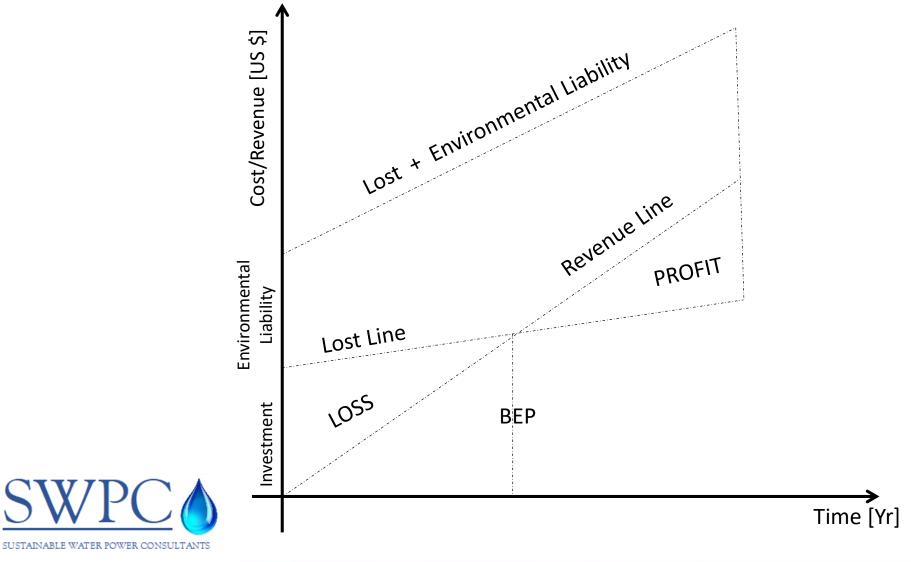
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ARWADEX - 6

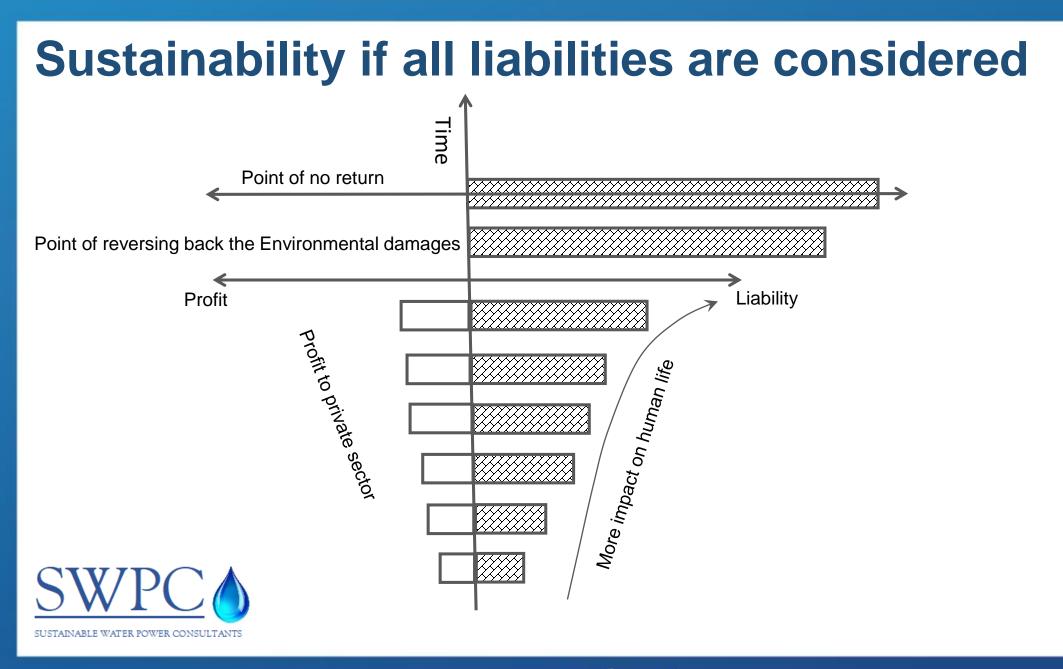
The three pillars are really three ?



Sustainability if all liabilities are considered



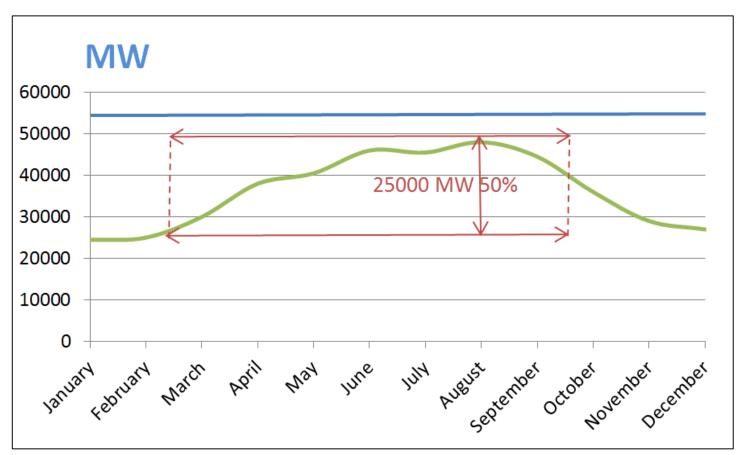
ARWADEX - 8



ARWADEX - 9

Old grid demand scenarios

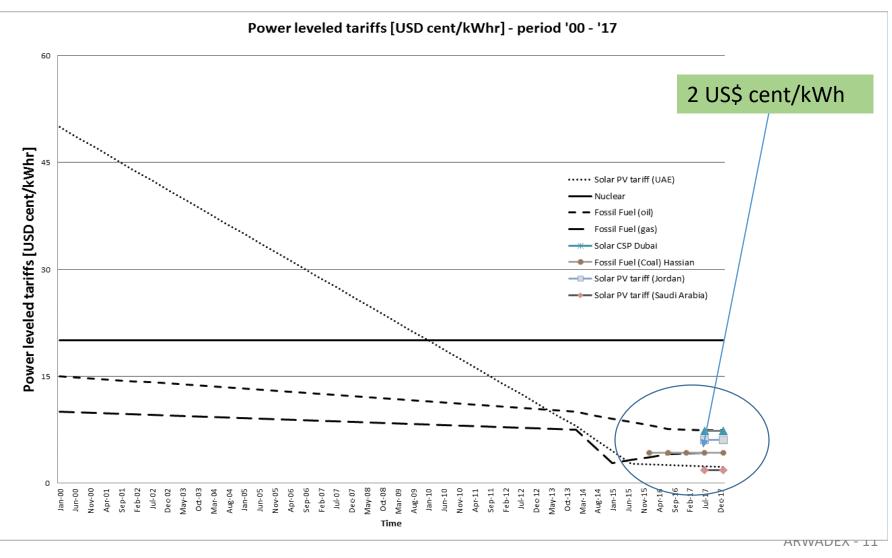
The peak load in the Kingdom is extremely marked with 2500 MW used for less that 50 hours/ yr. This in turns implies a very inefficient use of fuel



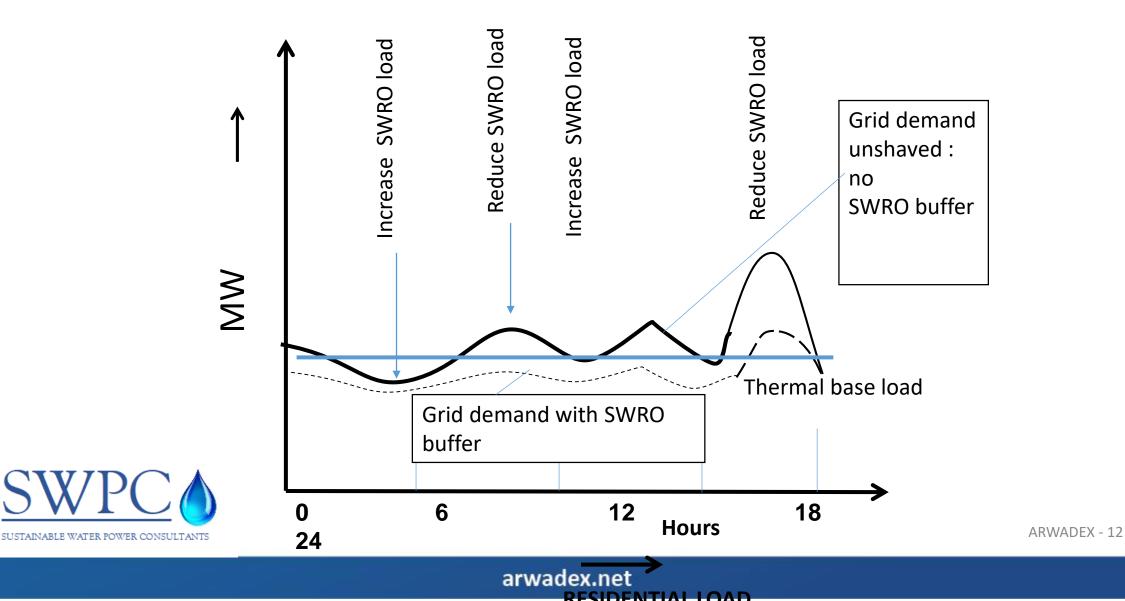


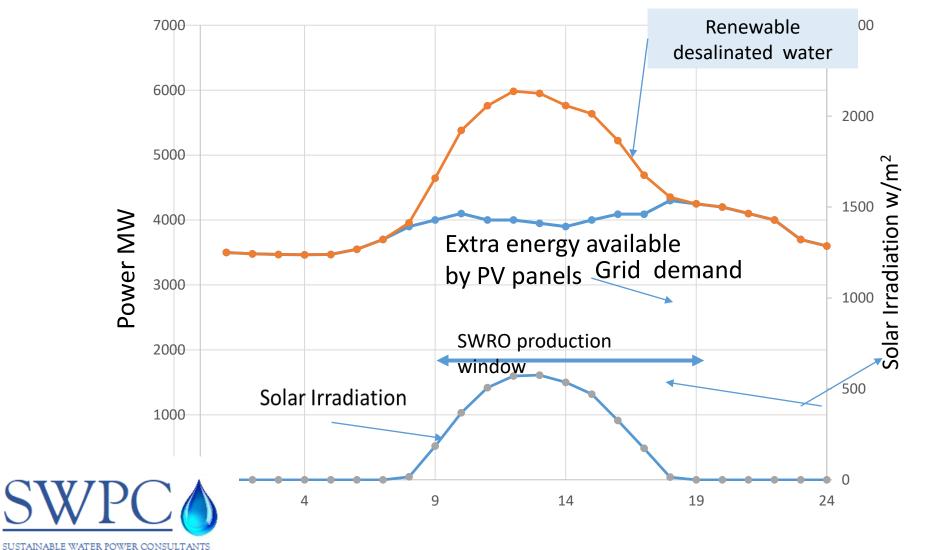
ARWADEX - 10

Energy price from PV system are reaching new targets as the time goes by

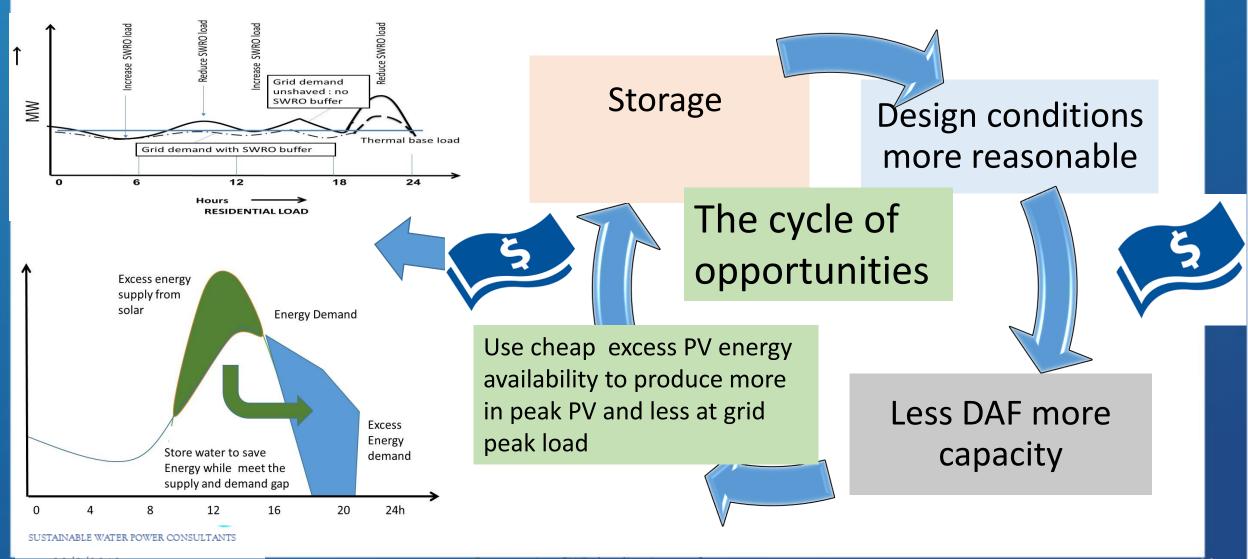


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Peak load shaving and power demand managemen



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Thanks SWPC

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Assist our clients to achieve sustainable resilient and cost effective solutions

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