


# Solar Water Pumping

**Impacts specialises in delivery of large scale infrastructure projects, with over 25 years international experience. We are now applying that experience to the delivery of our Award Winning solar products**



Impacts Solar has developed a product offering with enormous potential for agriculture and global energy, water and food security, slashing energy cost of irrigated agriculture and large-scale pumping operations."

## Impacts "Sun-Tap"<sup>TM</sup> solar pumping technology

The revolutionary "Sun-Tap"<sup>TM</sup> solar pumping technology brings savings and simplicity to irrigated agriculture and large scale metropolitan water supply.

Our technology is focused on helping farmers achieve reductions in:

- Operating cost of fixed pumping equipment
- Ongoing equipment maintenance and labour costs
- Costs for off-grid and fringe-of-grid applications
- Environmental impact of diesel and grid-connected pumps

Our "Sun-Tap"<sup>TM</sup> solar pumping technology directly powers large stationary pumps, achieving high pumping volumes from the available solar resources, greatly reducing the cost and environmental impact of large-scale pumping operations. In a sense reinventing the past; not quite steam engines, but using solar heat for motive or mechanical power, rather than generating electricity. Therefore it's much more efficient, operates at lower speeds and offers major cost reductions for off-grid applications.

Solar Heat

Low - Speed  
Turbine

Fixed Pumping  
Equipment



Winner of the 2013 Australian Innovation Challenge:  
Innovative Solar Desalination and Power Plant design

### Contact Us

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Impacts Solar is a registered business name of Impact Building Systems Pty Ltd



# THE AUSTRALIAN 1 INNOVATION CHALLENGE

in association with



## 2013 Winner

### Innovative Solar Desalination and Power Plant Design:



#### FEATURES

- Patented collector produces temperatures up to 350°C
- Single-axis, sun-tracking
- Automated system control
- Lightweight, low-cost support structure with stow mode
- Low-cost, high performance mirror design
- Flat pack shipment

#### APPLICATIONS

- Irrigated agriculture (cotton, sugarcane, vegetable growing)
- Flood and spray irrigation
- Organic farming
- Beef cattle production
- Bottling plants, abattoirs
- Metropolitan water supply
- Mine pumping and dewatering operations
- Power generation capability also available

#### BENEFITS

- Affordable capital cost structure, including financing and build, own, operate models.
- Effectively eliminates ongoing operating and maintenance costs.
- Heat, electricity and water supply in off-grid and fringe-of-grid locations
- Low on-site assembly costs suited to regional and remote areas and local job creation
- Modular design is scalable and adaptable to site-specific conditions and needs
- Replaces or offsets other energy sources reducing greenhouse gas emissions



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