

# Saving energy and saving money

Launceston 4 April,  
Hobart 5 April 2017

Tasmanian Renewable Energy Alliance  
Tamara NRM



**Tamar NRM**

# Tasmanian Energy Efficiency Loan Scheme (TEELS)

- \* \$10m loan fund due to be launched shortly (announced in last state budget)
- \* Interest free loans repayable over 3 years of up to \$10,000 for households and small businesses
- \* Applications managed and decided by Aurora Energy, loans administered by Westpac
- \* Open to all Tasmanian homes and small businesses (Aurora customer or not, on or off grid)
- \* See: <https://www.auroraenergy.com.au/forms/teels> to register interest and see eligible products
- \* Note that the existing No Interest Loan Scheme (<https://www.nilstasmania.org.au/>) is a not for profit organisation that provides safe, fair and affordable loans for low income Tasmanians including appliances.

# Why energy efficiency?

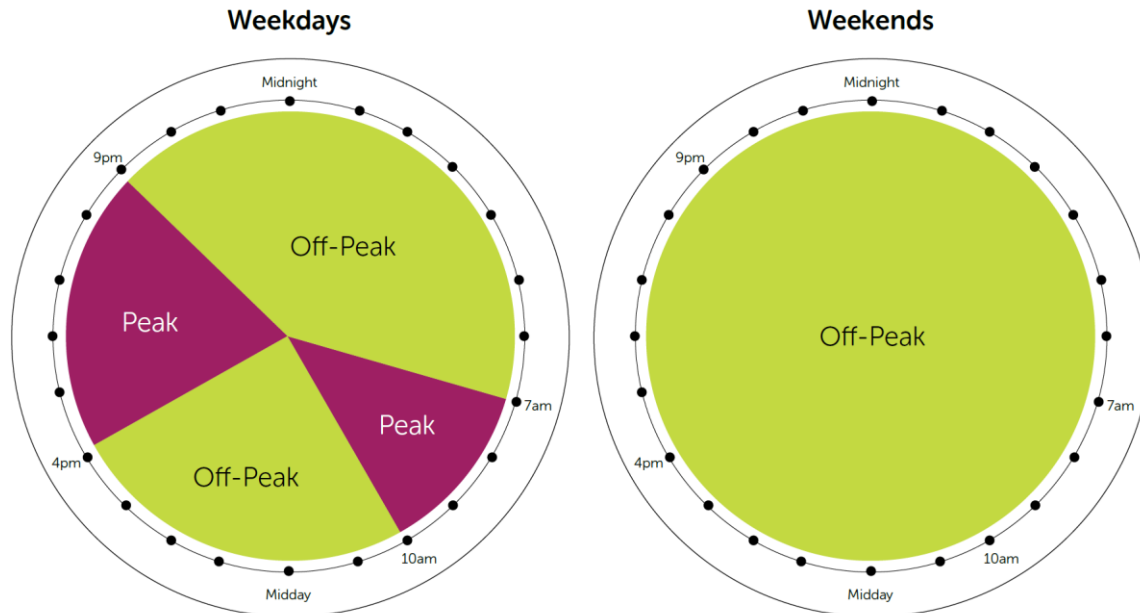
- \* to save money
- \* to reduce future energy costs
- \* to be more comfortable
- \* to reduce your carbon footprint or environmental impact
- \* to have more control and/or be more self-sufficient
- \* because you are a technology enthusiast

# Understanding your situation

- \* Understanding your current technology and energy use
- \* Do you want to ‘set and forget’ or be actively involved in managing your technology and energy use?
- \* How much do you want to do-it-yourself?

# Understanding tariffs

Residential customers in Tasmania can now choose a time of use tariff (tariff 93) instead of the traditional combination of tariff 31 (light and power) and tariff 41 (space heating and hot water).



# Comparison of 2016-2017 residential tariffs

Tariff	Fixed charge / day	Peak /kWh	Off-peak /kWh
Tariff 93 time of use	103.021c	31.307c	14.577c
Tariff 31	92.457c		26.065c
Tariff 41/42	17.907c		15.719c
31+41	110.364		

Read more at <http://tasrenew.org.au/tou2016/>

# Energy audits

A personal visit from an energy assessor can give you advice on:

- \* big things like choosing between solar hot water, heat pump hot water, and solar panels
- \* small things like how you can best manage warmth and fresh air by changing how you operate heaters, curtains, windows and doors

Request a quote from Sustainable Living Tasmania at:  
<https://ecohomeguide.com.au/products/home-sustainability-assessment>

# Energy monitoring

- \* Plug in devices to monitor individual usage on a power point.
- \* Device added to switchboard can monitor total consumption, solar output, exports and provide data via web or smartphone app.
- \* Solar Analytics  
<https://www.solaranalytics.com/au/>
- \* Flex Energy Monitor  
<http://www.energymatters.com.au/components/flex/solar-energy-monitor/>



# Energy monitoring



Make the smart move to solar monitoring

To ensure your solar energy system is performing at its best you need the Solar Analytics Monitoring.

Works with all solar power systems

→ Powerful yet simple interface!

# Solar diverters

- \* Tracks export of solar PV
- \* Diverts electricity to pre-heat hot water
- \* Needs to be installed in meter box by an electrician
- \* Products available in Australia include:
  - \* **Catchpower**  
<http://www.catchpower.com.au/>  
(video <https://vimeo.com/204239422>)
  - \* **Powerdiverter**  
<https://www.powerdiverter.com.au/product/>
  - \* **SunMate**  
<http://www.australianwindandsolar.com/aws-sunmate>



# Energy management

- \* Systems that both monitor and control individual appliances to minimise cost, track usage and maximise in-house use of solar PV.

- \* Solar Analytics forthcoming product launch

<https://www.solaranalytics.com/au/blog/solar-analytics-pulls-together-simpler-smart-home-energy-offering/>

# More on saving energy

- \* **Sustainable Living Tasmania's Eco Home Guide**

<https://ecohomeguide.com.au/>

- \* **Sustainable Living Tasmania / TasCOSS guides:**

- \* [Stay warm and save money](#): a guide to reducing your electricity bills
- \* Top six energy saving tips

- \* **Alternative Technology Association guides (some free, some \$5)**

<http://www.ata.org.au/what-we-do/publishing>

- \* Solar Electricity: Plan your own solar electricity system.
- \* Efficient Hot Water: Plan your own solar or heat pump hot water system.
- \* Guide to reducing your energy use and saving money

- \* **NILS fact sheets:**

- \* [Washing Machine Guide](#)
- \* [Heat Pump Guide](#)
- \* [Fridge Guide](#)
- \* [Ceiling Fan Guide](#)

# More info

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Find a TREA member: <http://tasrenew.org.au/members>

Presentations will go online shortly at:

<http://tasrenew.org.au/ee/>

