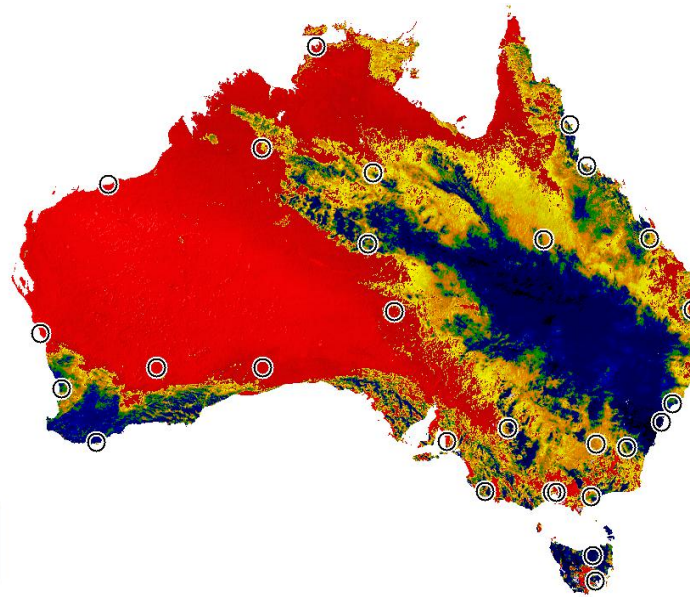


# Exemplary Climate Data Services

## ADVANCED CLIMATE KNOWLEDGE

- Solar Data for Anywhere in Australia
- Full Hourly Data Sets for Any Weather Site
- Historically Typical Data
- Extreme Weather Data
- Projected Future Data
- Immediate Past Data for Monitoring System Efficiency



**Phone: (02) 6260 6173**  
**Facsimile: (02) 6260 6555**

Level 1, Manuka Arcade  
20 Franklin Street (PO Box 4170)  
Manuka ACT 2603 Australia

Email: [energy.partners@exemplary.com.au](mailto:energy.partners@exemplary.com.au)  
Website: [www.exemplary.com.au](http://www.exemplary.com.au)



Exemplary Energy provides solar radiation data for  
AuSES publications  
[www.auses.org.au/solar-radiation-handbook](http://www.auses.org.au/solar-radiation-handbook)

energy • economics • buildings • environment

Real Time Weather Data

Ersatz Future Climate Data

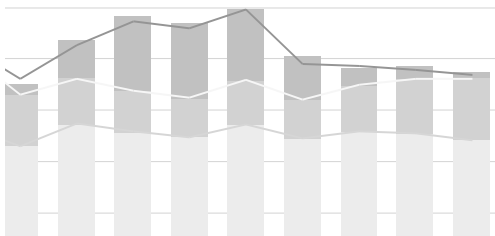
Typical Meteorological Years

Extreme Meteorological Years

Data Quality Assurance

Station Data Calibration

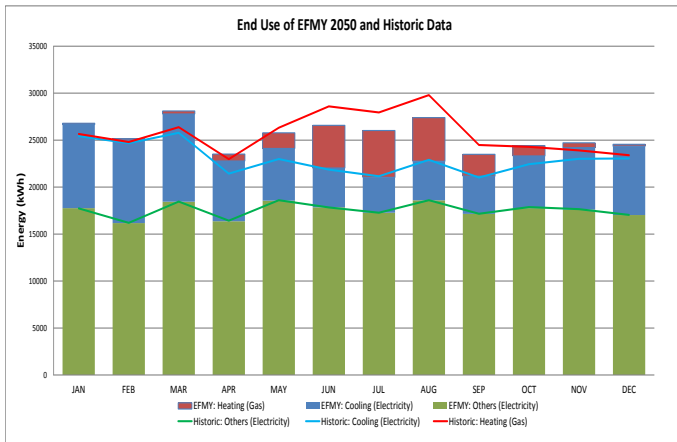
## ENERGY IMPACT ON COMMERCIAL, RESIDENTIAL AND PLANT SYSTEMS AND RENEWABLE ENERGY SYSTEMS



# ERSATZ FUTURE CLIMATE DATA

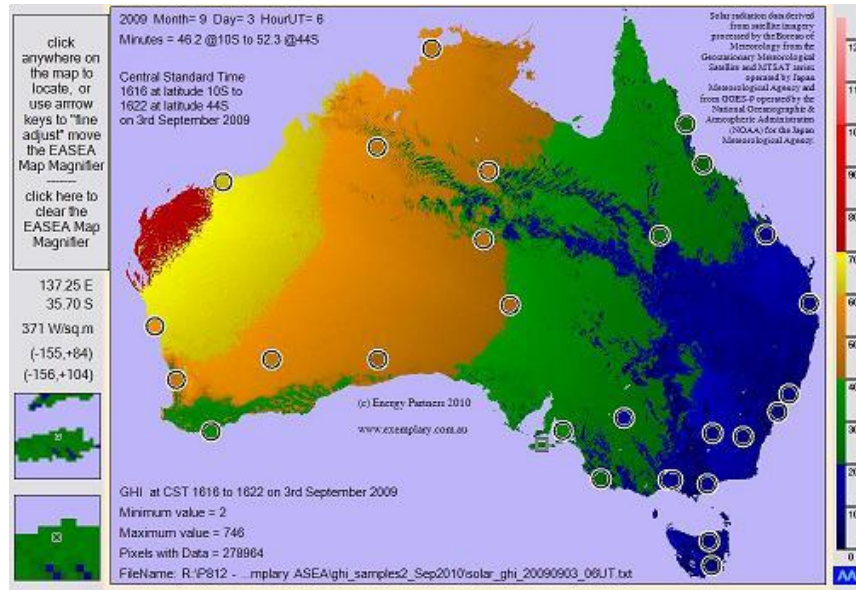
Ersatz Future Meteorological Year (EFMY) files can be used to ensure that buildings and renewable energy systems are designed and financed with consideration of a changing climate. This can be achieved by accurately predicting the range of likely future responses for a building or system.

EFMYs are created from 20 global climate change models used by the CSIRO and projected change values for temperature, wind speed, humidity and radiation. These EFMYs have adjustments of hourly values for a selected TMY in line with these parameters.



# REAL TIME WEATHER DATA

Real-time data can be used to create real-year-to-date and actual year data sets. Through simulation, these data sets can be applied to system output and building energy consumption information, allowing models to be 'calibrated' and weather-sensitive systems monitored for efficient performance.



These real-time data sets are called Real Time Meteorological Year (RTMY) weather files. These can be used to assess the consumption of residential or commercial buildings in an actual month or year. As a result, a building or system can be monitored for optimum performance.



# TYPICAL METEOROLOGICAL YEAR

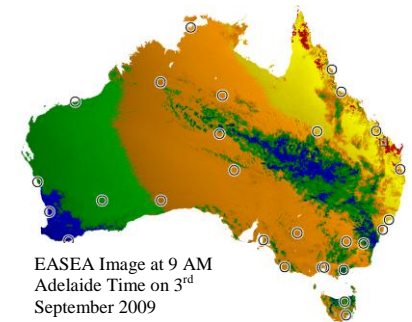
Energy Partners' current capabilities include producing a set of TMY and XMY files for any particular site where weather measurement data are available.

## Solar Data for Anywhere in Australia

### Station Data Calibration

### Data Quality Assurance provided by:

- Check against Values from nearby Bureau of Meteorology Sites
- Altitude Adjustment
- Terrain Adjustment
- Climatic Adjustment for Short Term Measurements



Extreme Meteorological Years  
Data Quality Assurance  
Station Data Calibration

EXTREME METEOROLOGICAL  
YEAR DATA