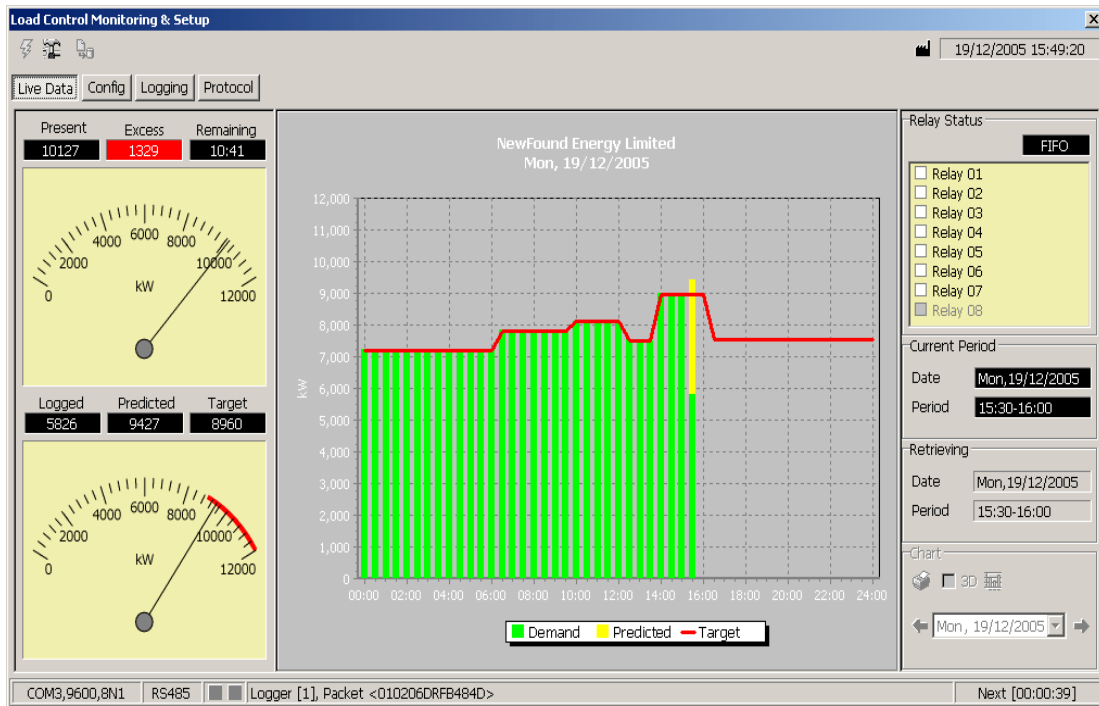


# ATLAS Load Control

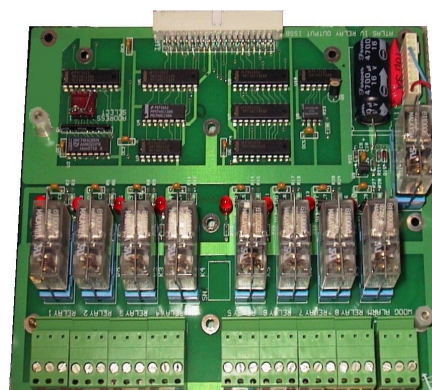
## Automatic Load Control System



The **ATLAS Load Control** package is designed to automatically control the energy use on a site to maintain the peak demand below an acceptable level either for cost management or because of supply capacity problems. Equally applicable to electricity, gas or other resource usage control, the system can operate on a total site or a critical area as required by the user. The package can be used in conjunction with the ATLAS 2000 software to provide a comprehensive Energy Monitoring, Control and Reporting system.

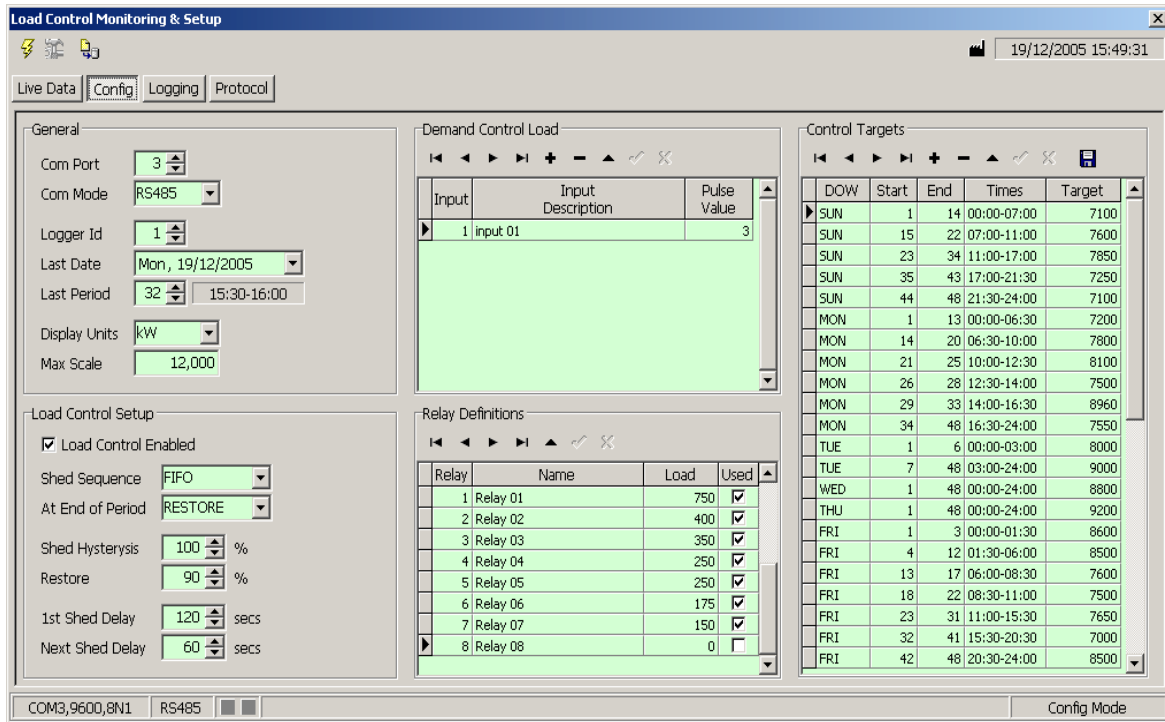
To provide this control facility a Load Control Unit (LCU) is provided which interfaces with the ATLAS IV Logger monitoring the consumption pulses from the site main incomer metering [or area metering if applicable]. The LCU is configured from the system PC with parameters to match the operating requirements of the site. Once programmed this LCU will operate using these parameters independent of the state of the PC. It is not essential that the PC be permanently linked to the LCU and it can be used for other tasks if required. When linked to the LCU the data collected is presented in a live display featuring the 1/2hr profile so far in the day with a comparison between the required load profile and actual load plus a statement of the status of LCU control relays at the last time of communication. Two dials indicate the present load, the predicted demand and the excess/available load at that time based on the last communication for data collection. Typically communication between PC and LCU will be set to take place once a minute thus providing a display update every minute. If required the user can instigate an immediate collection of data to update the display.

Load control is provided by 8 relays in the LCU which can be set to operate precisely to match the load to which they are attached and with sequence selection and time delays to suit the user a very flexible package is available. Some users may prefer to use the LCU load control relays to provide signals to a site production management system or PLC. Load control will operate based on a comparison between a predicted demand calculated for a centre, this can be the sum of several meter inputs of the Logger, and the limit set by the user.



## Configuration

Set up of the system for load control is a simple operation with configuration of all parameters on a single page made up of five discreet sectors

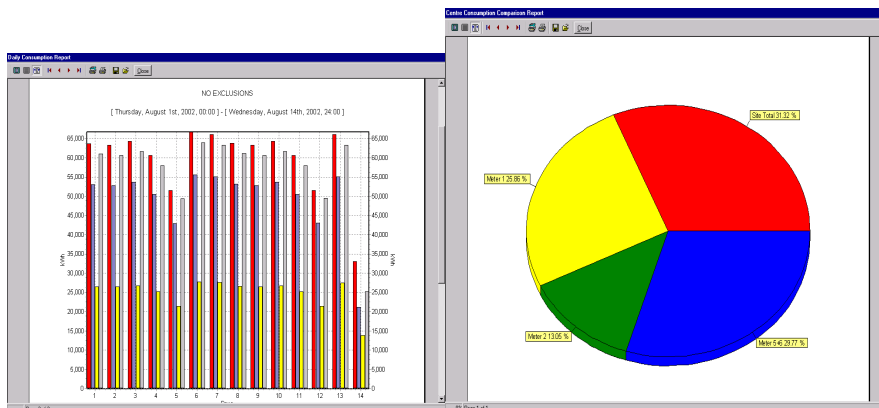


User programmable parameters include:

- CONTROL operational on predicted demand from Centre selected from 'within' ATLAS Logger
- LOAD values for each CONTROL RELAY
- DEMAND LIMIT programmable for each half hour, potentially 48 different values on 30 minute demand period
- DEMAND LIMITS for each individual day [ie each day can be different]
- SHED SEQUENCE selectable
  - First Load off, First Load restored
  - First Load off, Last Load restored
  - Cyclic
- Shed & restore HYSTERISIS % to account for Load start up values etc
- End of period Load RESTORE/NOT RESTORE selection
- Programmable Time Delay to first SHED action in seconds
- Programmable Time Delay between SHED action in seconds

For added flexibility individual LCU control relays can be disabled from the PC removing the need for physical disconnection of cables at the LCU terminals.

Demand values for each half hour for the control centre are stored in daily csv files to provide for user manipulation as required. Alternatively our ATLAS 2000 package can be supplied with it's extensive reporting capabilities.



Screenshots from ATLAS2000 system software.

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