TREC
ENERGY AWARE

A simple, easy to use energy monitor that starts your journey in energy awareness.

- See real time, whole of house energy usage
- Simultaneously observe instant consumption and projected cost
- Set tariff to display realistic costs for electricity
- Identify those energy hungry appliances (IAM required)
- Cut your carbon emissions and contribute to a more sustainable future
- C^2 communication technology provides interoperability with existing and future Current Cost products
- 10 Channels

Recommended to be used with

- Mini Transmitter
- 12mm Clip Sensor
- IAMs
- OptiSmart – dynamic data only

The TREC can complement the ENVI and EnviR systems

www.currentcostgroup.com
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ENVI

LET'S GO GREEN WITH ENVI

Enhance your Current Cost network with our second-generation monitor. With the added benefit of individual appliance monitoring capabilities, identifying your homes energy hungry appliances and reducing its waste has just got one step easier.

- See real time, whole of house energy usage
- Simultaneously observe instant consumption and projected cost
- Programmable tariffs to display realistic costs for electricity
- Identify those energy hungry appliances (IAM required)
- Cut your carbon emissions and contribute to a more sustainable future
- C^2 communication technology provides interoperability with existing and future Current Cost products
- PC Connectivity
- 7 Years historical memory
- Dynamic data output every 6 seconds
- Track, analyse and compare household energy consumption via PC, laptop or smart phone by using the Current Cost Web Dashboard (NetSmart required)
- 10 Channels

Recommended to be used with

- Mini or Sensable Transmitter
- 12mm or 25mm Sensors
- IAMs
- NetSmart
- OptiSmart – dynamic data only

The ENVI can complement the TREC and EnviR systems

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EnviR

The SmartR Monitor

Building on the ENVI's individual appliance monitoring capabilities the EnviR also empowers users with full metering ability with 100% meter reading accuracy*. Imagine how much can be saved by monitoring gas, water, oil and electricity usage.

- See real time, whole of house energy usage
- Simultaneously observe instant consumption and projected cost
- Programmable tariffs to display realistic costs for electricity
- Identify and monitor those energy hungry appliances (IAM required)
- C^2 communication technology provides interoperability with existing and future Current Cost products
- PC Connectivity
- 7 Years historical memory
- Dynamic data output every 6 seconds
- Track, analyse and compare household energy consumption via PC, laptop or smart phone by using the Current Cost Web Dashboard (NetSmart required)
- An alternative to AMR that enables users to provide multi-utility, accurate readings
- Removes the need to receive estimated invoices with our OptiSmart technology which ensures 100% accuracy*
- Programmable tariffs to display realistic costs
- 10 channels

Recommended to be used with

- Mini or Sensable Transmitter
- 12mm or 25mm Sensors
- IAMs
- NetSmart
- NetSmart Wireless Gateway
- OptiSmart

The EnviR can complement the TREC and ENVI systems
**100% accuracy (relative to existing meter)*
Installation is to an approved meter. Installtion is carried out in accordance with our instructions.

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EnviRW

For Mobile Connectivity

Get real time information from your customers easily with our EnviRW. View, manage and access the data through multiple media devices.

- GPRS enabled
- See real time, whole of house energy usage
- Simultaneously observe instant consumption and projected cost
- Programmable tariffs to display realistic costs for electricity
- Identify and monitor those energy hungry appliances (IAM plug required)
- Cut your carbon emissions and contribute to a more sustainable future
- C^2 communication technology provides interoperability with the existing and future Current Cost products.
- Dynamic data output every 6 seconds
- 10 Channels

Recommended to be used with

- OptiSmart
- Mini or Sensable Transmitter
- IAM's

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EnviR^{S}

INFINITE possibilities

The EnviRS is the latest member of the Current Cost product family and has the ability to monitor up to 30 channels allowing households to generate a more accurate and specific picture of energy consumption and wastage.

- See real time, whole of house energy usage
- Ability to monitor electricity, gas, oil and water consumption and microgen
- C^2 communication technology provides interoperability with the existing and future Current Cost products
- Track, analyse and compare household energy consumption via PC, laptop or a smart phone when utilising the Current Cost NetSmart
- Meets and exceeds OFGEM minimum specification for in-home displays
- Available with Smart Meter communication protocols including M-Bus, ZigBee, Z-Wave, KNX, 868MHz and GPRS
- 15 Utility/appliance channels
- 15 Alert channels
- Messaging service

Recommended to be used with

- Mini or Sensable Transmitter
- 12mm or 25mm Sensors
- IAMs
- NetSmart
- NetSmart Wireless Gateway
- OptiSmart

The EnviRS is compatible with all of the above when using C^2 protocol

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Envi

COMPATIBILITY made easy

The Smart Energy In Home Display unit using ZigBee SEP1.0 technology enables the unit to communicate with the Smart Meter to receive information from the Utility about low tariffs or energy saving initiatives. Using the navigation buttons price information, usage, and forecast information can be displayed.

- Certified Smart Energy In Home Display device
- ZigBee 2.4GHz RF supporting mesh network
- Compatible for Electricity, Gas, Water
- Graphical energy price history display
- Forecast data
- Multiple tariffs
- 3.5" Dot matrix FSTN LCD display
- 16M flash memory, reprogram over the air
- LED Backlight

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EMC²

THE ENERGY GENIUS

The EMC² monitors usage of individual appliances, giving users the opportunity to wirelessly turn these appliances on and off, providing control over household electrical appliances and ultimately total energy consumption of the property.

- See real time, whole of house energy usage
- Remotely monitor the usage of your connected appliances in Watts and Kilowatts, cost per day/month and in Kilograms of CO_2
- Remotely switch your connected appliances on and off*
- Displays time and date
- C^2 enabled technology
- Updates every 6 seconds
- PC connectivity to post live data to a web dashboard
- Track, analyse and compare household energy consumption via PC, laptop or smart phone by using the Current Cost Web Dashboard (NetSmart required)

Can be used with

- 12mm or 25mm Sensors
- Switchable IAMs
- Bi-Directional NetSmart Wireless Gateway
- For whole of house usage the EMC² can be used with Mini or Sensable Transmitter

**Switchable IAMs required*

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Transmitters

Mini CT Transmitter

- Can be used with 12mm Clip and 12mm Daisy Chain Sensors
- Compatible with all displays
- Size 85mm (145mm with aerial upright) x 70mm x 30mm
- Battery powered 2 x C cell = 4yr battery life – replaceable
- Facility to monitor single or multiple phase supply*
- Max 80A

Sensable CT Transmitter

- Can be used with 12 mm Pincer and 25mm Clip Sensors
- Compatible with all displays
- Size 130mm (165mm with aerial upright) x 100mm x 50mm
- Battery powered 2 x D cell = 7yr battery life – replaceable
- Facility to monitor one, two* or three* phase supply
- Sensable software voltage selector 200-260V (USA version 100-130 available)
- Easily add additional displays to your home when using the Multi Add feature
- Max 80A

OptiSmart Transmitter

- Can be used with OptiSmart Sensors
- Compatible with TREC, ENVI, EnviR and EnviRS
- Size 85mm (145mm with aerial upright) x 70mm x 30mm
- Battery powered 2 x C cell = 2yr battery life – replaceable
- When used with Current Cost monitors, 100% accurate meter reading ability**

* Additional CT Sensors required

** 100% accuracy (relative to existing meter)

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Sensors

CT Sensors

12mm Clip Sensor

- Measures domestic single phase supply
- For use with Mini Transmitter
- 4P4C connection
- Accommodates max cable size 12mm diameter
- Max 80A

(Excludes Northern American style systems)

12mm Clip Daisy Chain Sensor

- Measures domestic multi phase domestic supply. When used in conjunction with the 12mm Clip sensor
- For use with Mini Transmitter
- 4P4C connection
- Accommodates max cable size 12mm diameter
- Max 80A

(Excludes Northern American style systems)

12mm Pincer Sensor

- Measures domestic single, 2 or 3 phase supply
- For use with Sensable Transmitter
- Pin Type connection
- Accommodates max cable size 12mm diameter
- Max 80A

(Excludes Northern American style systems)

25mm Clip Sensor

- Measures single, 2 or 3 phase supply
- For use with Sensable Transmitter
- Pin Type connection
- Accommodates max cable size 25mm diameter
- To be used with large cables and 3 phase SME installations
- USA compatible
- Max 300A

Meter Interface Devices

Electricity

Current Costs Optical Reader is attached to the meter and counts the flashes from the imp/kWh LED. It can be supplied with various attachments to keep the reader in place.

Gas

The interface for gas is a bespoke design depending on the meter and its internal construction. A number of options are available.

Water

The interface for water is a bespoke design depending on the meters internal construction, and location ie. inside or outside the dwelling.

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Connectivity

NetSmart

The Current Cost NetSmart device, allows you to send your aggregated real time energy usage data every 5 minutes to compatible web dashboards by connecting your monitor to your modem or broadband connection. This enables users to track, analyse and compare household energy consumption via PC, laptop or smart phone.

Compatible with ENVI, EnviR, EnviRS* and IAM

NetSmart Wireless Gateway

Building on the NetSmart's ability to display energyusage data over the internet, the NetSmart WirelessGateway enables internet access without the need to physically connect to a home energy monitor.

Compatible with TREC, ENVI, EnviR, EnviRS* and IAM

Internet Connectivity

Current Cost Web Dashboard

Using a Current Cost home energy monitor with our NetSmart products customers can view and interrogate their data through their PC, laptop or smart phone. Using the Current Cost Web Dashboard customers can now share energy usage data on Facebook, Twitter, and Linkedin, as well as having the ability to view data from up to 9 additional sensors or individual appliance monitors.

*Depending on communication protocol

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Accessories

IAMs

IAMs *(Individual Appliance Monitors)* can identify and monitor those energy hungry appliances. Compatible with TREC, ENVI, EnviR, EnviRS and EnviRW monitors, these devices can help users understand energy consumption and costs, even when an appliance is on standby, or when it is no longer running efficiently.

When using the EMC², switchable IAMs give users the added ability to switch connected appliances on and off remotely.

Data Cable

Using a Data Cable, users can download to their PC the data gathered by their Current Cost energy monitor. Being able to see and graph usage gives users a broader understanding of electricity consumption. RJ45 to USB (A) 'active' cables allow the download of data from the Current Cost display to a PC. The cable includes the prolific (USB-Serial) chipset - the driver can be found at **www.currentcost.com/software-downloads**
Compatible with ENVI, EnviR and EnviRS displays.

Software

For users of the Data Cable, Current Cost hosts a range of software applications created by third party developers to give consumers a choice of how they view the energy usage data recorded by their Current Cost monitor. Software downloads can be found at **www.currentcost.com/software-downloads**

Fascias

To enhance the branding potential for our utility and business customers, the EnviR has a range of colourful interchangeable Fascias.

Comparison Table

Monitor Name	TREC ENERGY AWARE	ENVI LET'S GO GREEN WITH ENVI	EnviR The SmartFi Monitor	EnviR^S INFINITE possibilities	EnviRW For Mobile Connectivity	Envi COMMUNITY made easy	EMC^2 THE ENERGY GENIUS
Size	80mm x 92mm x 25mm	120mm x 155mm x 93mm	140mm x 170mm x 105mm	110mm x 130mm x 40mm	120mm x 155mm x 93mm	140mm x 160mm x 105mm	86mm x 140mm x 30mm
Number of years of stored historical data	0 years	7 years	7 years	2 years	2 years		2 years
Number of channels	10	10	10	30	10		15
PC connectivity		●	●	●	●		●
Changeable fascia			●				
IAM compatible	●	●	●	●	●		●
Switchable IAM compatible							●
Current Cost Web Dashboard enabled		●	●	●	●		
Multi tariff enabled		●	●	●			●
Multi fuel functionality			●	●	●		
Meter reading ability			●	●	●		
GPRS integrated					●		
ZigBee Communication protocol						●	
Choice of Communication protocols				●			

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