

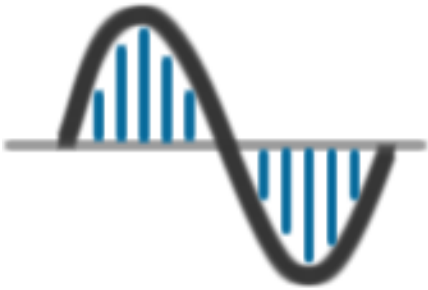


EirGrid Group **Customer Conference 2012**

25th October 2012

Delivering the Power System of tomorrow





Smart Power

buy wholesale, move load, reduce costs

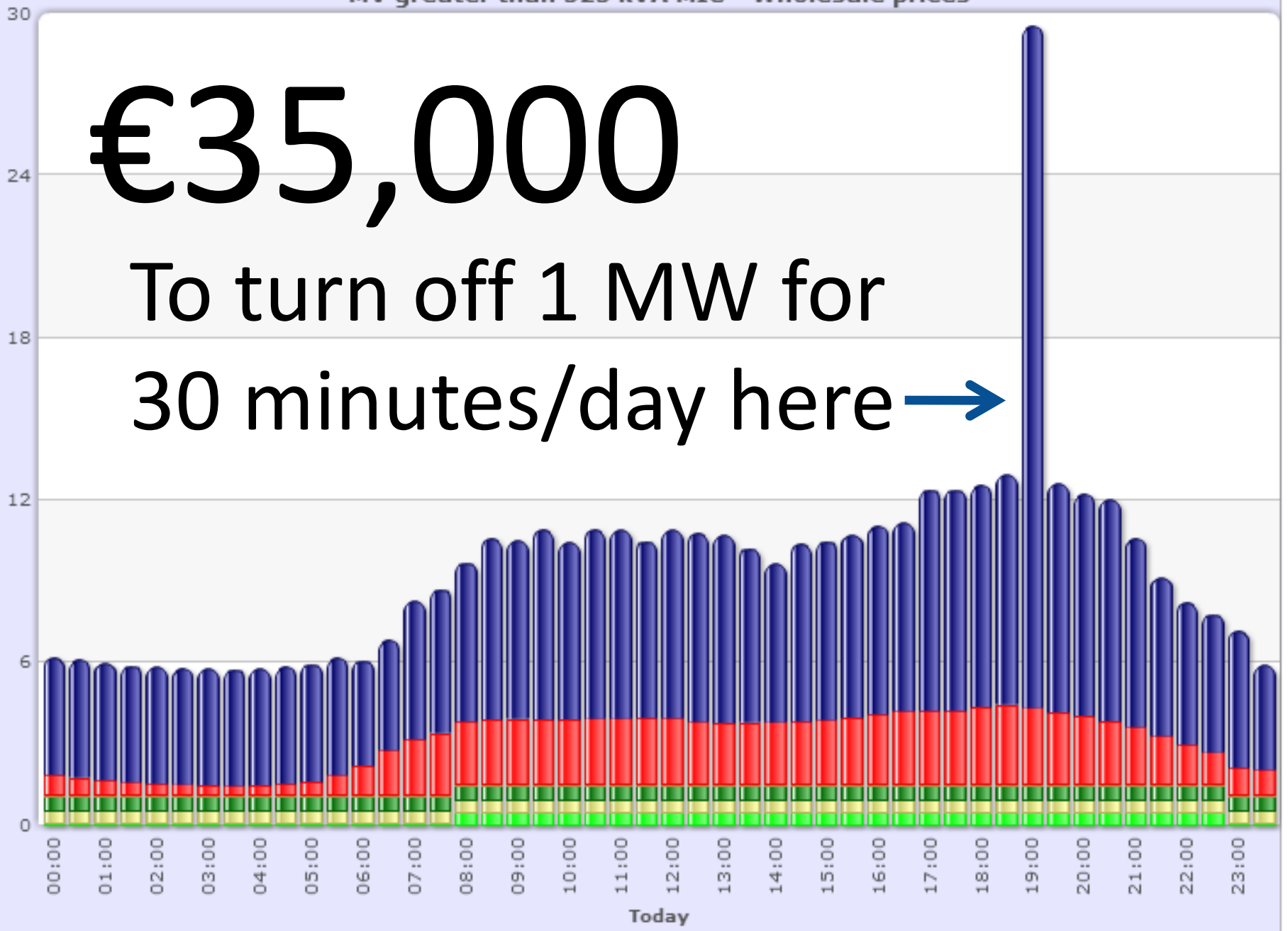
Fergus.wheatley@smartpower.ie

01-44 33 455
086-3807914

€35,000

To turn off 1 MW for 30 minutes/day here →

Cost ⚡





3 Topics for Today

How SmartPower identifies price spikes.

How SmartPower can tell you where electricity is being used.

For CHP owners, how to squeeze extra revenue from your unit.

Different Charges for Types of Customers

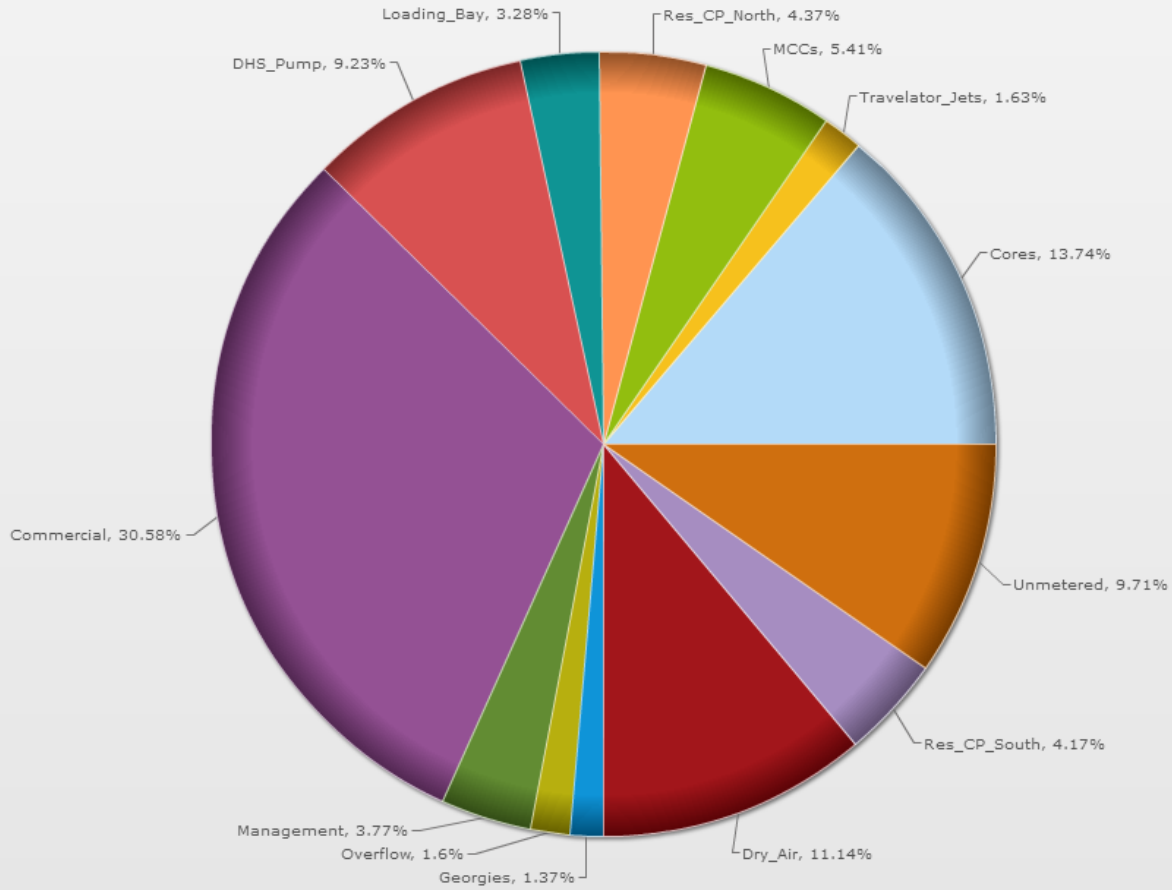
Calculated daily and every lunchtime next 36 hours of prices are downloaded to controller.





Active Power (Watts)

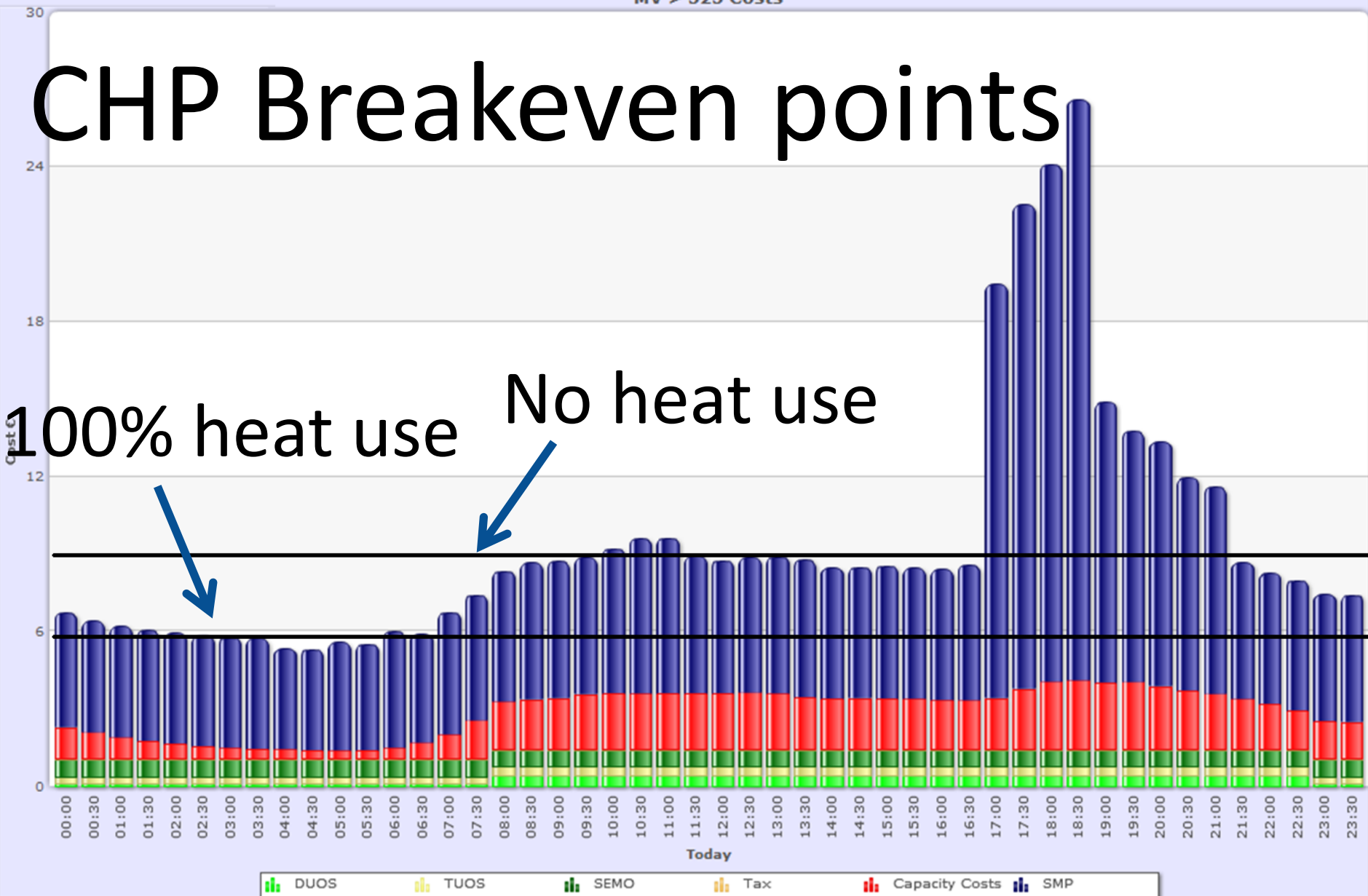
Electricity Use - 157100 kWh



CHP Breakeven points

100% heat use

No heat use



Example: 3rd February 2012



Same hardware as is used in US Smart Grid applications.

Software rewritten for Irish (SEM) Grid rules. (We own this)

Simple to integrate with existing control or energy management systems.

Value to you

- €26,000 additional profit for 1MW CHP plant.
- €35,000 per annum to switch off 1MW during the most expensive **30 minutes** of every day.
- Know how & when electricity is used.



Keelings – Co. Dublin

During the commissioning of our 2MW CHP plant, SmartPower used their knowledge of the Irish electricity market to help us negotiate a better electricity export contract price. In the 6 months since the SmartPower installation there has been an approximate additional €22,000 income for the group over and above running the CHP based on 'time-of-day' settings. SmartPower are currently assisting us in reducing the site carbon tax resulting from CHP gas consumption.

William Keeling



IBM Research Dublin

IBM installed a SmartPower solution as part of the IBM Research's Living Energy Lab in Damastown to try and understand 'real world' applications of variable electricity pricing, which has proved successful. In addition to this, SmartPower passed us on years of valuable historical actual market readings which has been fed back into the research division.

Niall Brady